# A-INFO Microwave

## Antenna Products

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Horn Antenna
Spiral Antenna
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Discone-Type Antenna
Bi-Conical Antenna

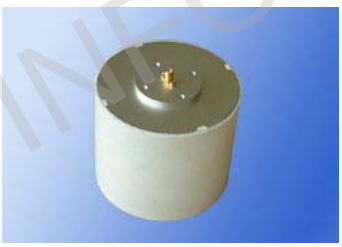












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**AINFO Inc. is an ISO 9001:2015 certified manufacturer.**



WSF 世标认证

# CERTIFICATE OF REGISTRATION

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Organization Code/Unified Social Credit Code:
91110108355240388Q

This is to certify that the Quality Management System of

**AINFO INC.**

Audit Address: 4-406, No.5 Building, No.1 Yard, Nongda South Road, Haidian District, Beijing/Registered Address: 4-406, No.5 Building, No.1 Yard, Nongda South Road, Haidian District, Beijing, China

has been audited to conform to

GB/T 19001-2016/ISO 9001:2015

For the whole process of

**design, development, sales and after-sales service of small antenna and microwave, radio frequency components and parts (excluding radio transmitting equipment) for communication equipment**

Date of Initial Issuance:2016-5-19

Date of Issuance:2019-5-15 Date of Expiry:2022-5-18

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*World Standards For Certification Center Inc.* *Issued by :*

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WSF ISO9001

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C038-M

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# Content


*Broadband Horn Antenna* ..... 1
*Octave Horn Antenna* ..... 52
*Multi Octave Horn Antenna* ..... 55
*Dual Polarization Horn Antenna* ..... 74
*Open Boundary Quad-Ridged Horn Antenna* ..... 93
*Options for Dual Polarization Horn Antenna* ..... 110
*Standard Gain Horn Antenna* ..... 128
*Diagonal Horn Antenna* ..... 138
*Open Ended Waveguide Probes* ..... 146
*Ortho-Mode Transducer (OMT) Horn Antenna* ..... 159
*Conical Horn Antenna* ..... 164
*Corrugated Conical Horn Antenna* ..... 193
*Corrugated Feed Horn Antenna* ..... 205
*Lens Horn Antenna* ..... 219
*Circular Polarization Horn Antenna* ..... 227
*Horn Antenna Accessories* ..... 230
*Cavity Backed Spiral Antenna* ..... 232
*Helical Antenna* ..... 253
*Spiral Antenna Accessories* ..... 253
*Microstrip Array Antenna* ..... 254
*Microstrip Omni Antenna* ..... 257
*Log Periodic Antenna* ..... 261
*Discone-Type Antenna* ..... 294
*Bi-Conical Antenna* ..... 308

# Broadband Horn Antenna





The LB series broadband waveguide horn antennas are linearly polarized and provide an efficient low cost means of making broadband measurements. A-INFO's horn antenna can cover from 100MHz to 67GHz frequency range. These horns are ideally suited for EMI testing, direction finding, surveillance, antenna gain and Pattern measurements and other applications. The LB series horn antennas have high gain, over octave bandwidths, low VSWR and advantages of small size and light weight.

Also we provide specific gain horn antennas according to customers' requirement.

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Broadband Horn Antenna and download.*

| Model | Freq. (GHz) | Pol. | Gain (dB) Typ. | VSWR Typ. | Connector | Power Hnadling (W) CW Max. | Size (mm) |
|---|---|---|---|---|---|---|---|
| LB-110-NF | 0.1-1.0 | Linear | 3-10 | 2.5:1 | N-F | 800 | 2250 x 2154 x 1423 |
| LB-225-NF | 0.2-2.5 | Linear | 12 | 2.0:1 | N-F | 800 | 967 x730 x 903 |
| LB-460-NF | 0.4-6.0 | Linear | 10 | 1.5:1 | N-F | 500 | 492 x 320 x 436 |
| LB-530-NF | 0.5-3.0 | Linear | 11 | 1.5:1 | N-F | 500 | 435 x 288 x 348 |
| LB-560-NF | 0.5-6.0 | Linear | 11 | 1.5:1 | N-F | 500 | 435 x 288 x 348 |
| LB-660-NF | 0.6-6.0 | Linear | 11 | 1.5:1 | N-F | 500 | 435 x 288 x 348 |
| LB-7180-NF | 0.7-18.0 | Linear | 12 | 2.0:1 | N-F | 300 | 244 x 160.5 x 228 |
| LB-7180-SF | 0.7-18.0 | Linear | 12 | 2.0:1 | SMA-F | 50 | 244 x 160.5 x 228 |
| LB-880-NF | 0.8-8.0 | Linear | 10 | 1.5:1 | N-F | 300 | 284 x 184 x 252 |
| LB-880-SF | 0.8-8.0 | Linear | 10 | 1.5:1 | SMA-F | 50 | 284 x 184 x 252 |
| LB-8180-NF | 0.8-18.0 | Linear | 12 | 1.5:1 | N-F | 300 | 244 x 160 x 230 |
| LB-8180-SF | 0.8-18.0 | Linear | 12 | 1.5:1 | SMA-F | 50 | 244 x 160 x 230 |
| LB-1025-NF | 1.0-2.5 | Linear | 15 | 1.5:1 | N-F | 500 | 586 x 436 x 769 |
| LB-1025-SF | 1.0-2.5 | Linear | 15 | 1.5:1 | SMA-F | 50 | 586 x 436 x 769 |
| LB-1025-7/16F | 1.0-2.5 | Linear | 15 | 1.5:1 | 7/16-F | 500 | 586 x 436 x 769 |
| LB-1080-NF | 1.0-8.0 | Linear | 11 | 1.5:1 | N-F | 300 | 244 x 160 x 204 |
| LB-1080-SF | 1.0-8.0 | Linear | 11 | 1.5:1 | SMA-F | 50 | 244 x 160 x 204 |
| LB-1080-M-NF | 1.0-8.0 | Linear | 10 | 2.5:1 | N-F | 150 | 85 x 89.5 x 140 |
| LB-1080-M-SF | 1.0-8.0 | Linear | 10 | 2.5:1 | SMA-F | 50 | 85 x 89.5 x 140 |



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Website: www.ainfoinc.com
Email: sales@ainfoinc.com

| Model | Freq. (GHz) | Pol. | Gain (dB) Typ. | VSWR Typ. | Connector | Power Hnadling (W) CW Max. | Size (mm) |
|---|---|---|---|---|---|---|---|
| LB-10125-NF | 1.0-12.5 | Linear | 11 | 1.5:1 | N-F | 300 | 244 x 160 x 204 |
| LB-10125-SF | 1.0-12.5 | Linear | 11 | 1.5:1 | SMA-F | 50 | 244 x 160 x 204 |
| | | | | | | | |
| LB-10180-NF | 1.0-18.0 | Linear | 11 | 1.5:1 | N-F | 300 | 244 x 160 x 204 |
| LB-10180-SF | 1.0-18.0 | Linear | 11 | 1.5:1 | SMA-F | 50 | 244 x 160 x 204 |
| LB-10200-SF | 1.0-20.0 | Linear | 11 | 1.5:1 | SMA-F | 50 | 244 x 160 x 204 |
| LB-10200-NF | 1.0-20.0 | Linear | 11 | 1.5:1 | N-F | 300 | 244 x 160 x 204 |
| | | | | | | | |
| LB-2060-H-NF | 2.0-6.0 | Linear | 15 | 1.3:1 | N-F | 500 | 245 x 195 x 407 |
| LB-2060-H-SF | 2.0-6.0 | Linear | 15 | 1.3:1 | N-F | 50 | 245 x 195 x 407 |
| | | | | | | | |
| LB-2080-NF | 2.0-8.0 | Linear | 11 | 1.5:1 | N-F | 150 | 103.8 x 77.9 x 127 |
| LB-2080-SF | 2.0-8.0 | Linear | 11 | 1.5:1 | SMA-F | 50 | 103.8 x 77.9 x 127 |
| | | | | | | | |
| LB-20180-SF | 2.0-18.0 | Linear | 12 | 1.5:1 | SMA-F | 50 | 103.8 x 77.9 x 127 |
| LB-20180-NF | 2.0-18.0 | Linear | 12 | 1.5:1 | N-F | 150 | 103.8 x 77.9 x 127 |
| | | | | | | | |
| LB-20180H-SF | 2.0-18.0 | Linear | 17 | 1.5:1 | SMA-F | 50 | 438 x 183 x183 |
| LB-20180H-NF | 2.0-18.0 | Linear | 17 | 1.5:1 | N-F | 150 | 438 x 183 x183 |
| | | | | | | | |
| LB-20200-SF | 2.0-20.0 | Linear | 12 | 1.5:1 | SMA-F | 50 | 103.8 x 77.9 x 127 |
| LB-20200-NF | 2.0-20.0 | Linear | 12 | 1.5:1 | N-F | 150 | 103.8 x 77.9 x 127 |
| | | | | | | | |
| LB-20200H-SF | 2.0-20.0 | Linear | 17 | 1.5:1 | SMA-F | 50 | 438 x 183 x183 |
| LB-20200H-NF | 2.0-20.0 | Linear | 17 | 1.5:1 | N-F | 150 | 438 x 183 x183 |
| | | | | | | | |
| LB-20245-SF | 2.0-24.5 | Linear | 13 | 1.5:1 | SMA-F | 50 | 84 x 64 x 127 |
| | | | | | | | |
| LB-20265-SF | 2.0-26.5 | Linear | 13 | 1.5:1 | SMA-F | 50 | 93.8 x 63.9 x 112 |
| LB-20265-3.5F | 2.0-26.5 | Linear | 13 | 1.5:1 | 3.5mm-F | 50 | 93.8 x 63.9 x 112 |
| | | | | | | | |
| LB-40400-KF | 4.0-40.0 | Linear | 13 | 1.5:1 | 2.92mm(K)-F | 20 | 65 x 51.8 x 41.8 |
| LB-40400-2.4F | 4.0-40.0 | Linear | 13 | 1.5:1 | 2.4mm(K)-F | 10 | 65 x 51.8 x 41.8 |
| | | | | | | | |
| LB-45500-2.4F | 4.5-50.0 | Linear | 13 | 1.5:1 | 2.4mm-F | 10 | 65 x 43.8 x 41.3 |
| | | | | | | | |
| LB-60180-NF | 6.0-18.0 | Linear | 10 | 1.5:1 | N-F | 150 | 55 x 55.1 x 109 |
| LB-60180-SF | 6.0-18.0 | Linear | 10 | 1.5:1 | SMA-F | 50 | 55 x 44 x 109 |
| LB-60180-HNF | 6.0-18.0 | Linear | 10 | 1.5:1 | HP N-F | 500 | 55 x 50.5 x 115.3 |
| | | | | | | | |
| LB-60670-1.85F | 6.0-67.0 | Linear | 13 | 1.5:1 | 1.85mm-F | 5 | 65 x 32.4 x 27.8 |
| | | | | | | | |
| LB-80180-SF | 8.0-18.0 | Linear | 10 | 1.5:1 | SMA-F | 50 | 48 x 39 x 96.7 |
| LB-80180-NF | 8.0-18.0 | Linear | 10 | 1.5:1 | N-F | 150 | 48 x 52.6 x 96.7 |
| LB-80180-HNF | 8.0-18.0 | Linear | 10 | 1.5:1 | HP N-F | 500 | 48 x 47.6 x 96.7 |
| | | | | | | | |
| LB-180400-KF | 18.0-40.0 | Linear | 15 | 1.5:1 | 2.92mm(K)-F | 20 | 32 x 28.6 x 71 |
| LB-180400-2.4F | 18.0-40.0 | Linear | 15 | 1.5:1 | 2.4mm-F | 10 | 32 x 29.9 x 71 |
| LB-180400H-KF | 18.0-40.0 | Linear | 20 | 1.5:1 | 2.92mm(K)-F | 20 | 55 x 55 x 113 |
| LB-180400H-2.4F | 18.0-40.0 | Linear | 20 | 1.5:1 | 2.4mm-F | 10 | 55 x 55 x 113 |
| | | | | | | | |
| LB-180500-2.4F | 18.0-50.0 | Linear | 15 | 1.5:1 | 2.4mm-F | 10 | 32 x 29.9 x 71 |
| LB-180500H-2.4F | 18.0-50.0 | Linear | 20 | 1.5:1 | 2.4mm-F | 10 | 55 x 55 x 113 |

Note:
1. We can offer mounting bracket, please email to sales@ainfoinc.com



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# Broadband Horn Antenna 0.2~2.5GHz

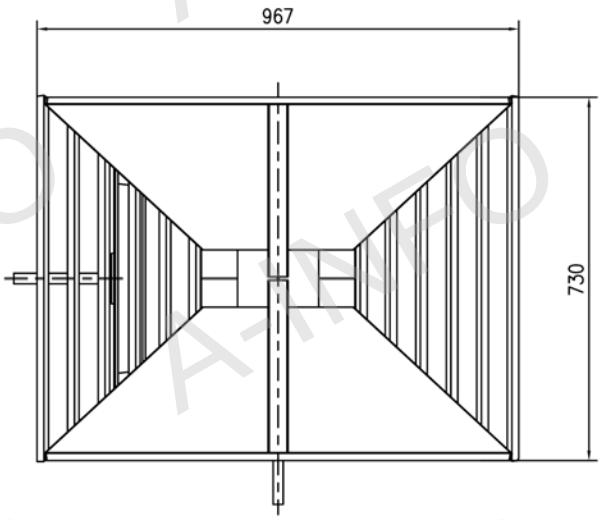
**P/N: LB-225**

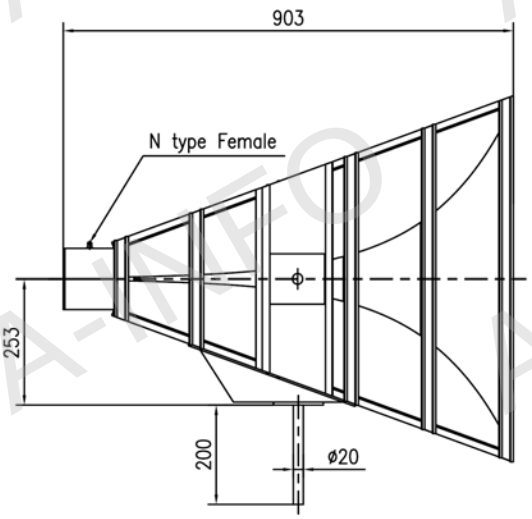


## Technical Specification

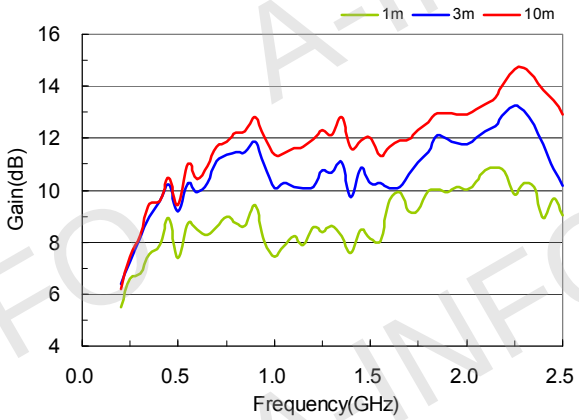
| | |
|---|---|
| Frequency Range(GHz) | 0.2-2.5 |
| Gain(dB) | 12 Typ. |
| Polarization | Linear |
| VSWR | 2.0:1 Typ. |
| Connector | N-Female |
| Power Handling(W) CW | 800 Max |
| Size(mm) | 967 x 730 x 903 |
| Net Weight(Kg) | 14.14 Around (16.34 Including Hand Holder) |

## Outline Drawing (Size: mm)

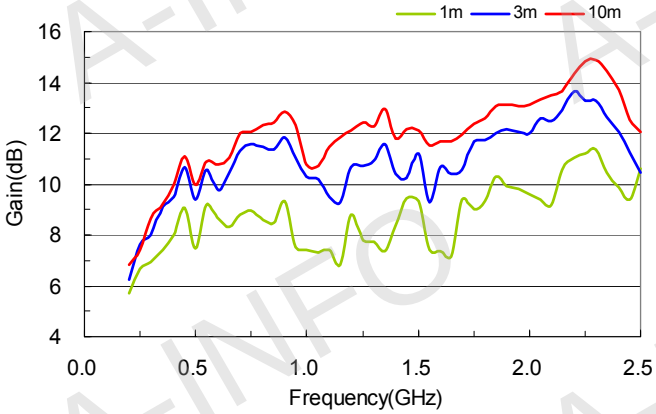



## Gain
Horizontal Polarization




## Gain
Vertical Polarization



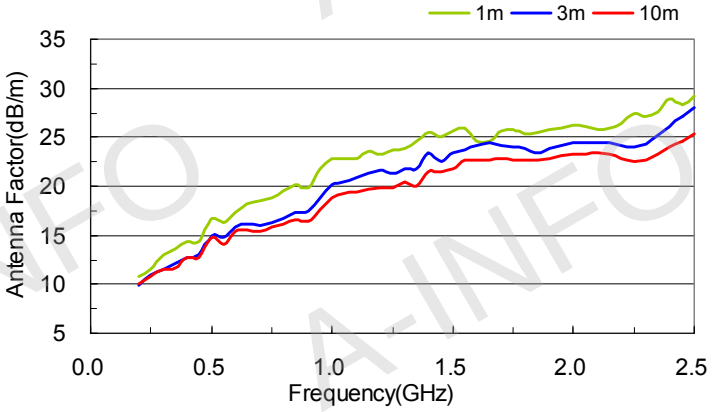



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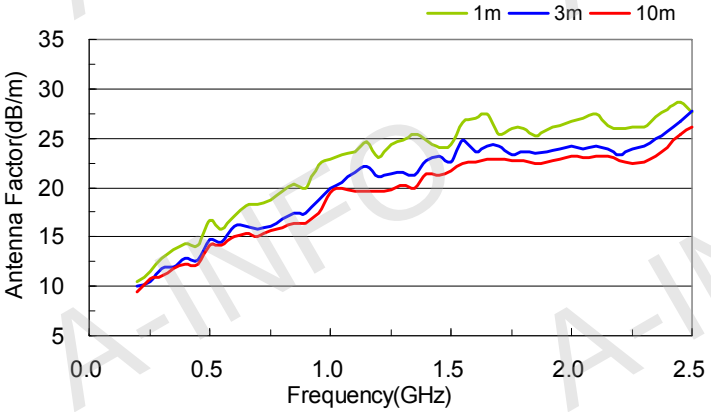
# Broadband Horn Antenna 0.2~2.5GHz (continued)

**P/N: LB-225**

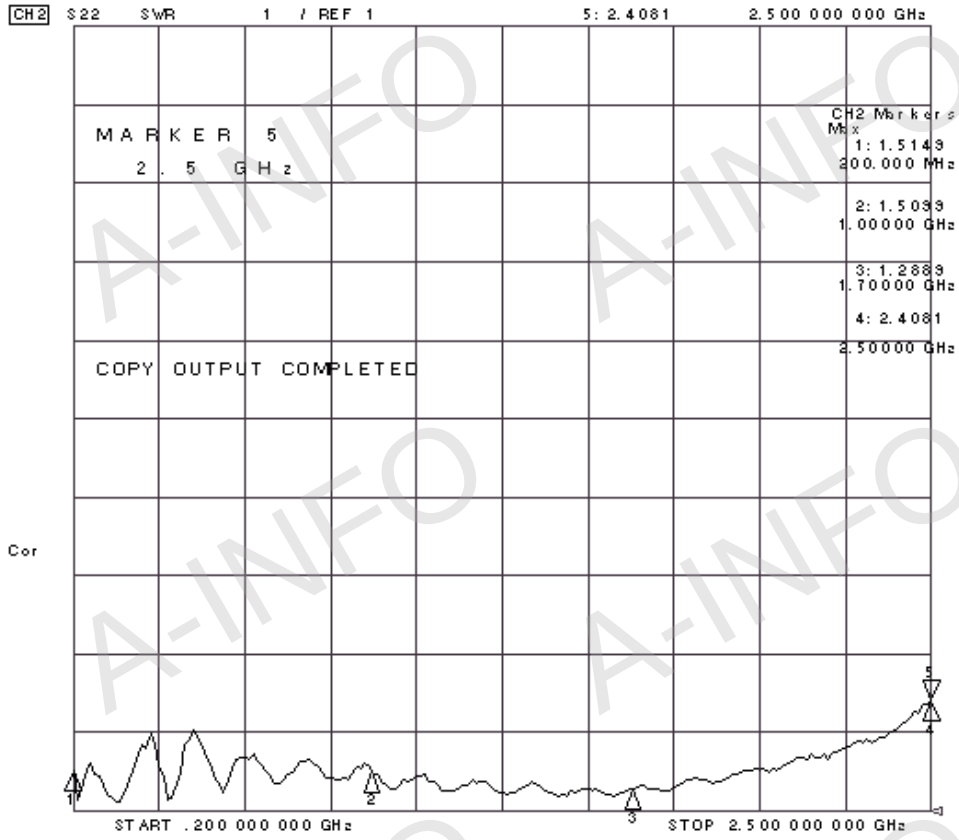
**Antenna Factor**
Horizontal Polarization




**Antenna Factor**
Vertical Polarization




**VSWR**





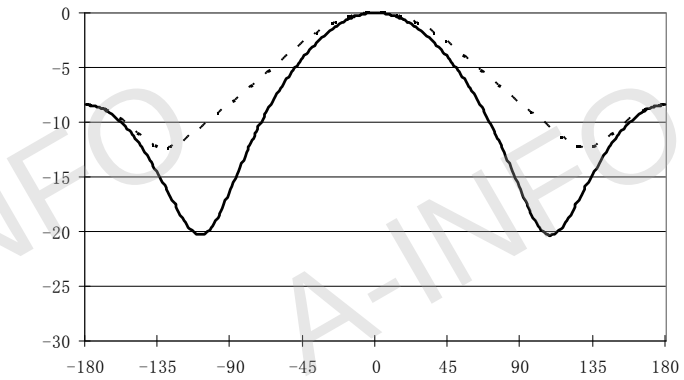

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# Broadband Horn Antenna 0.2~2.5GHz(continued)

**P/N: LB-225**

**Pattern**

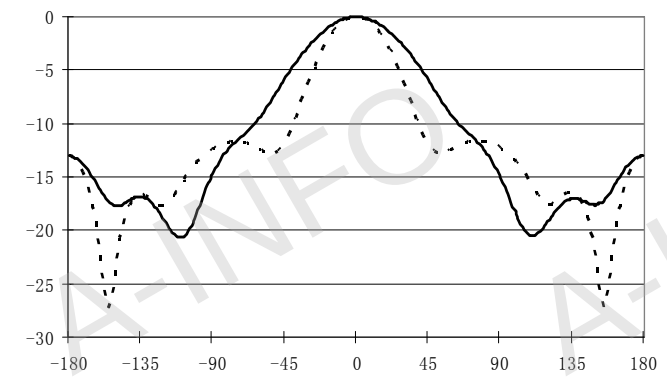
Frequency: 0.2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 76.70 3dB Beamwidth (deg): 94.00

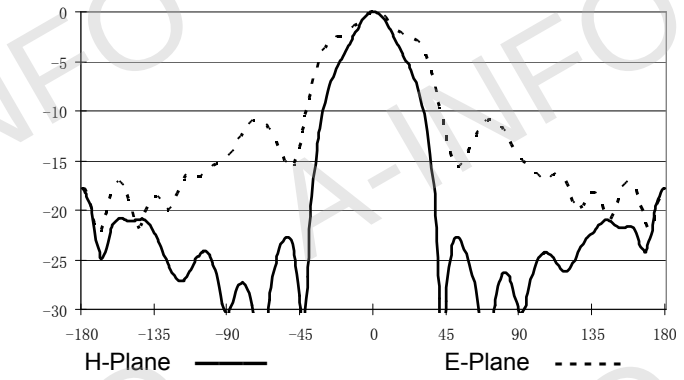
Frequency: 0.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg):62.40 3dB Beamwidth (deg): 41.80

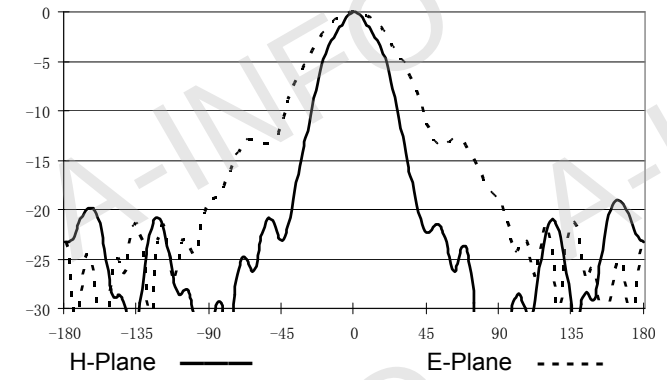
Frequency: 1.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 27.90 3dB Beamwidth (deg):53.35

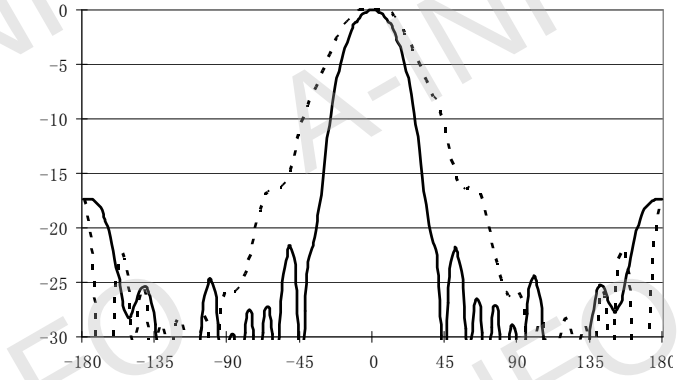
Frequency: 1.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 29.20 3dB Beamwidth (deg):44.60

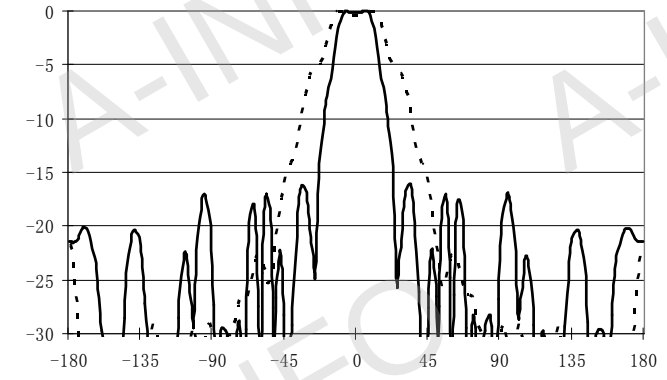
Frequency: 2.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg):32.05 3dB Beamwidth (deg): 46.25

Frequency: 2.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg):25.30 3dB Beamwidth (deg): 37.55



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# Broadband Horn Antenna 0.4~6GHz

**P/N: LB-460**

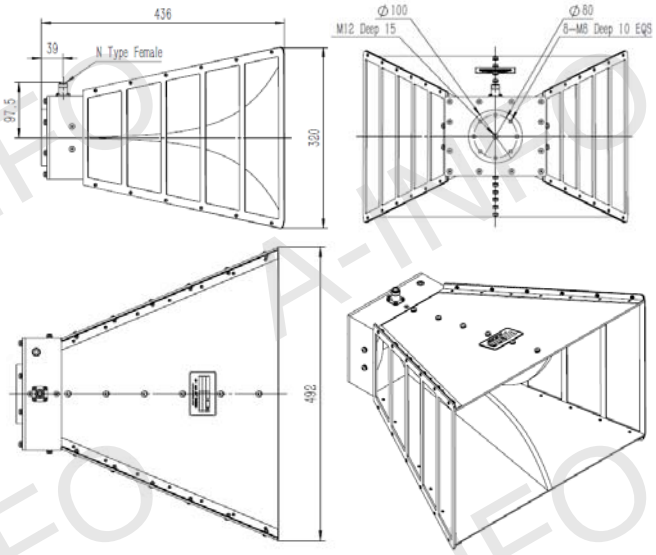


## Technical Specification

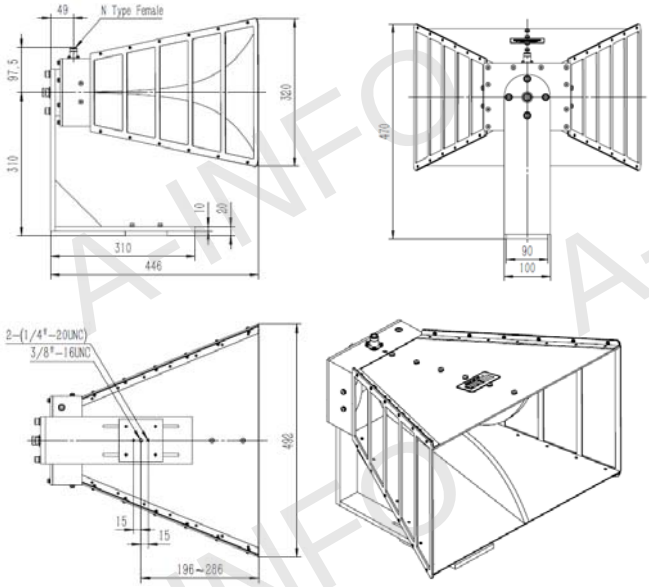
| | |
|---|---|
| Frequency Range(GHz) | 0.4-6.0 |
| Gain(dBi) | 10 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 104 - 31 |
| | H Plane: 94 - 35 |
| Cross Pol. Isolation(dB) | 25 Typ. |
| VSWR | 1.5:1 Typ. |
| Connector | N-Female |
| Power Handling(W) CW | 500 Max |
| Material | Al |
| Size(mm) | 492 x 320 x 436 |
| Net Weight(Kg) | 7.4 Around |

## Outline Drawing (Size: mm)

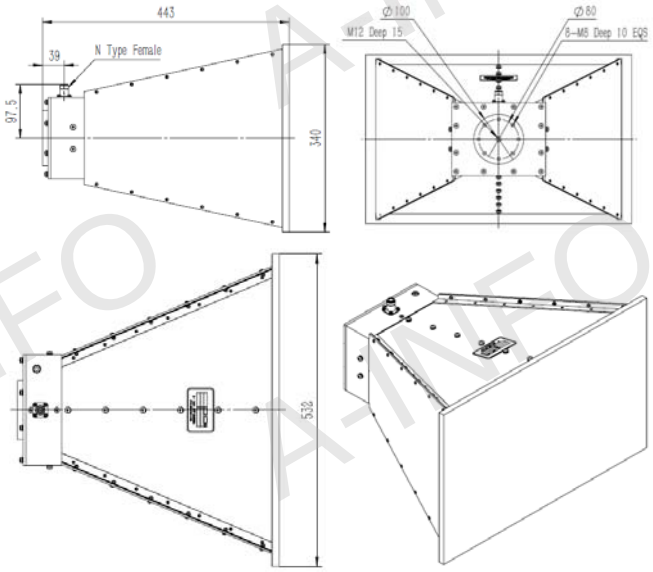
N-Female Output



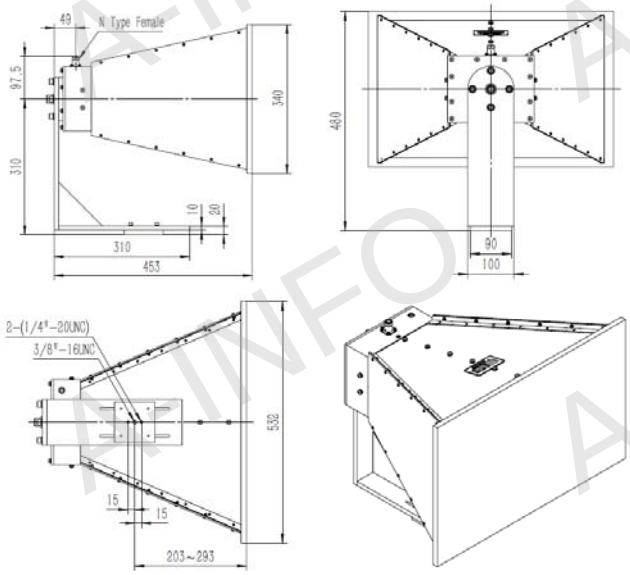

N-Female Output with L type mounting bracket




N-Female Output with Radome




N-F Output w/ L type mounting bracket & Radome



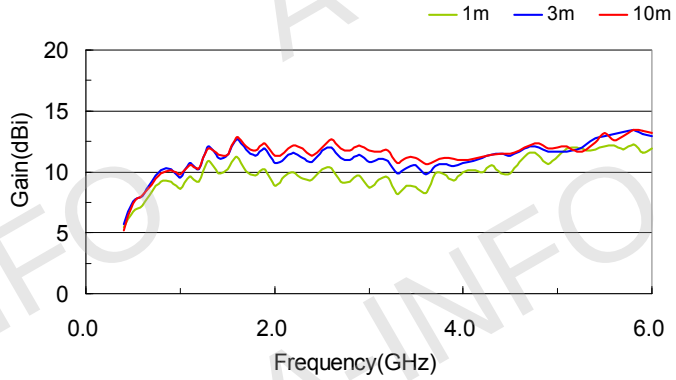



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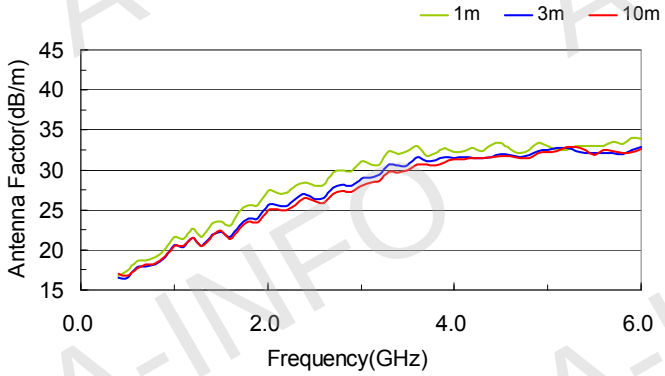
# Broadband Horn Antenna 0.4~6GHz(continued)

## P/N: LB-460

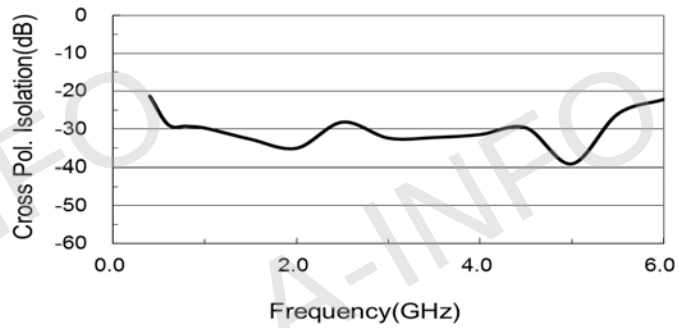
### Gain



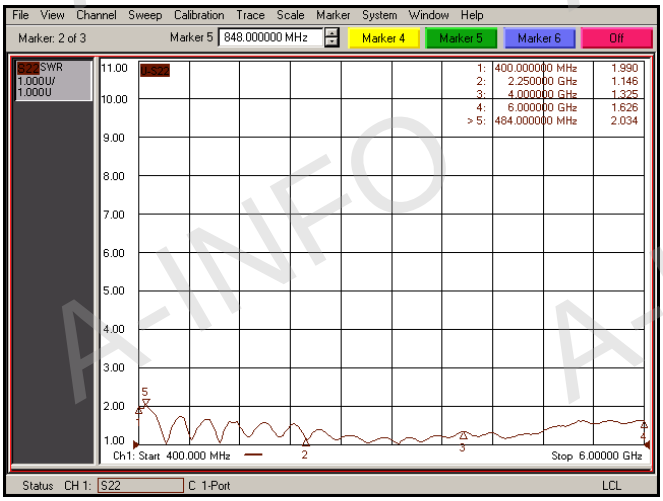

### Antenna Factor




### Cross Polarization Isolation

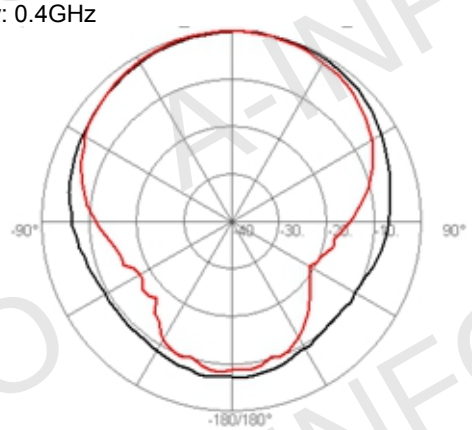



### VSWR




### Pattern

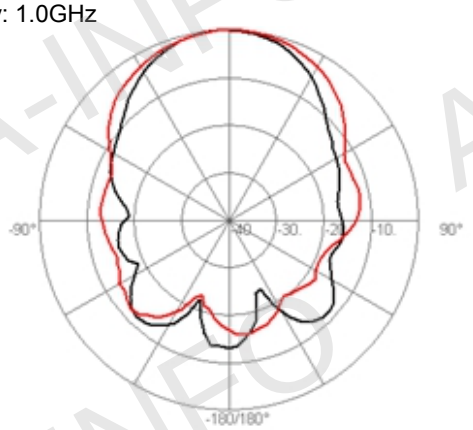
Frequency: 0.4GHz




H-Plane 3dB Beamwidth (deg): 93.10

E-Plane 3dB Beamwidth (deg): 103.64

Frequency: 1.0GHz




H-Plane 3dB Beamwidth (deg): 64.00

E-Plane 3dB Beamwidth (deg): 48.17



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# Broadband Horn Antenna 0.4~6GHz(continued)

**P/N: LB-460**

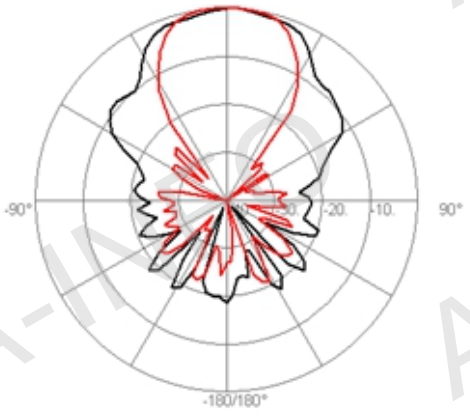
**Pattern**

Frequency: 2.0GHz




H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 53.02 3dB Beamwidth (deg): 31.02

Frequency: 3.0GHz



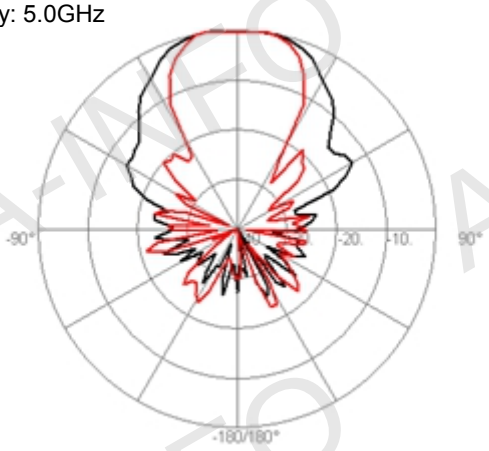

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 39.80 3dB Beamwidth (deg): 51.47

Frequency: 4.0GHz



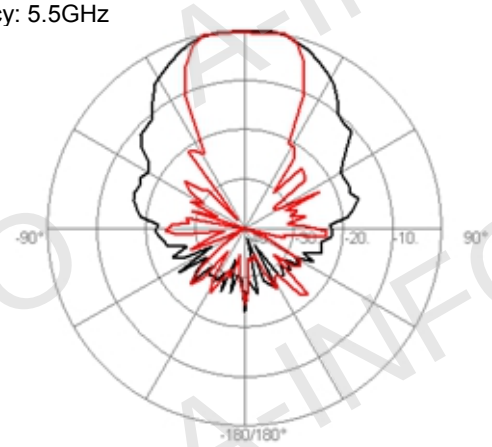

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 38.55 3dB Beamwidth (deg): 46.24

Frequency: 5.0GHz



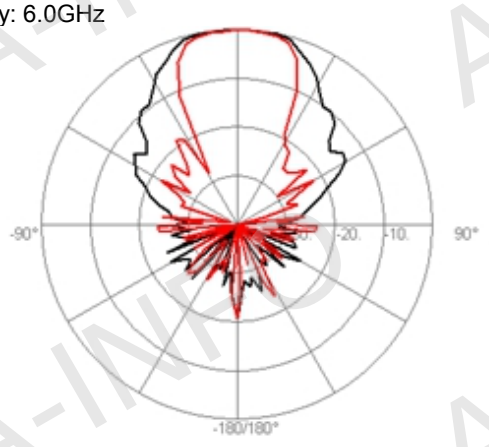

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 37.87 3dB Beamwidth (deg): 49.66

Frequency: 5.5GHz




H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 35.65 3dB Beamwidth (deg): 46.38

Frequency: 6.0GHz




H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 36.01 3dB Beamwidth (deg): 43.82



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# Broadband Horn Antenna 0.5~6.0GHz

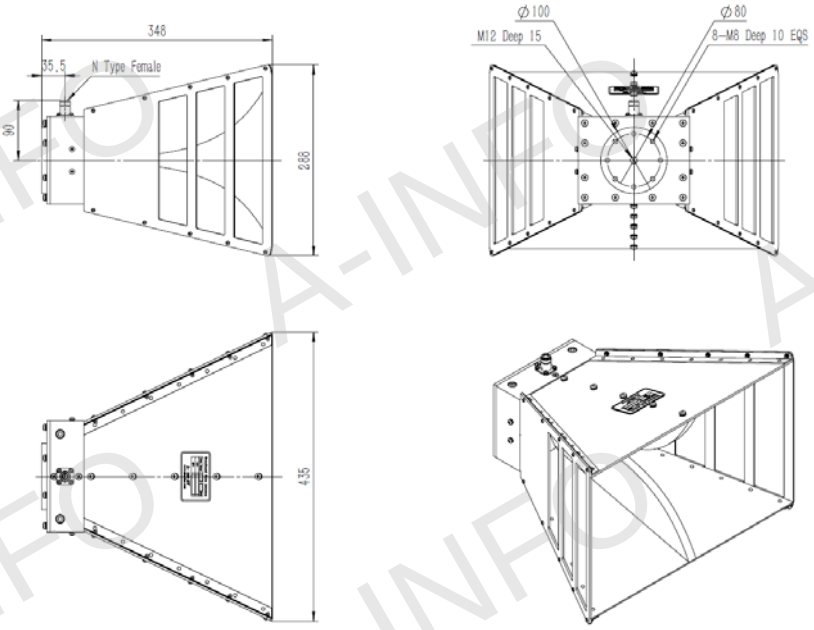
**P/N: LB-560**



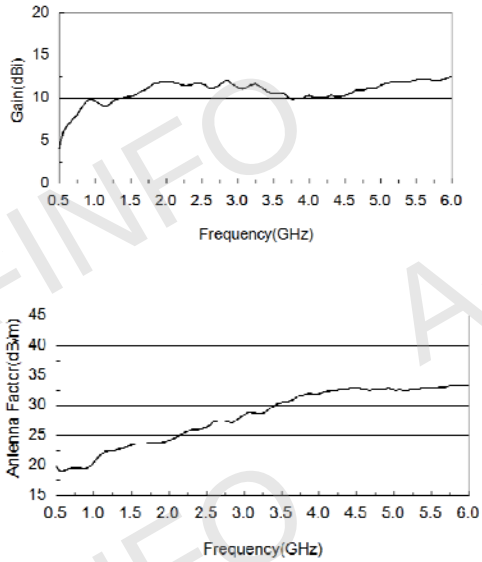
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.5-6.0 |
| Gain(dB) | 11 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 97 - 34 |
| | H Plane: 75 - 33 |
| Cross Pol. Isolation(dB) | 25 Typ. |
| VSWR | 1.5:1 Typ. |
| Connector | N-Female |
| Power Handling(W) CW | 500 Max |
| Material | Al |
| Size(mm) | 435x288x348 |
| Net Weight(Kg) | 6.8 Around |

## Outline Drawing and Mounting(Size: mm)



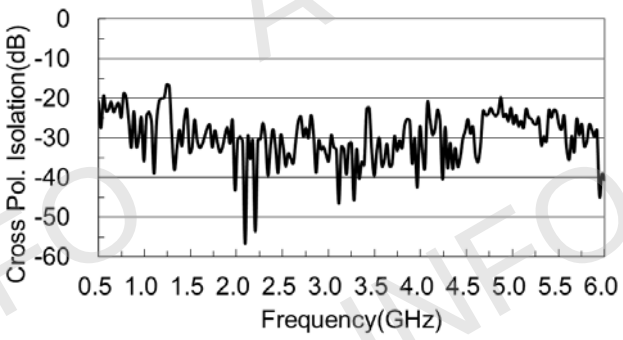

## Gain&Antenna Factor



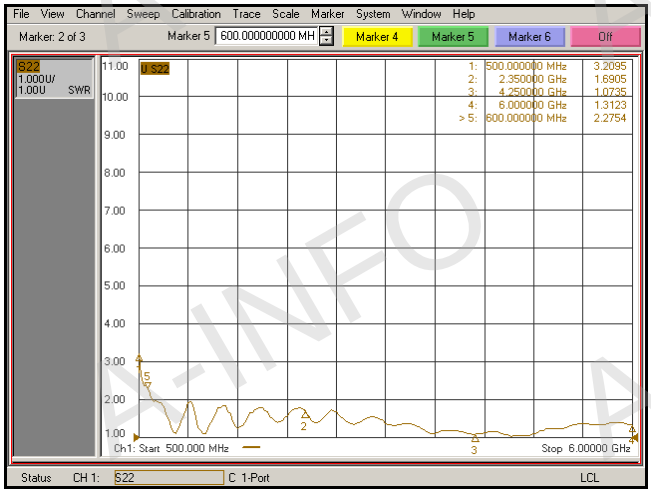




## Cross Polarization Isolation




## VSWR



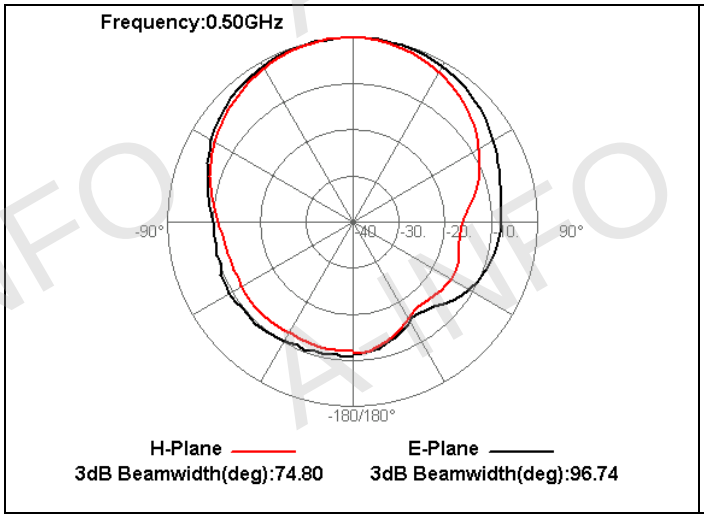


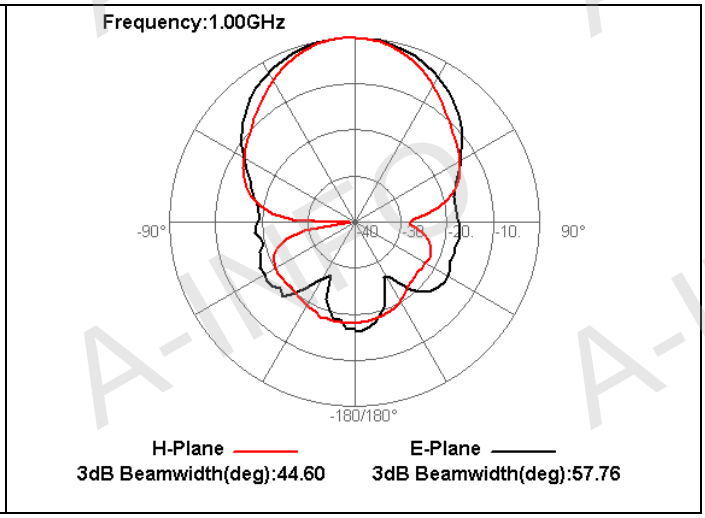

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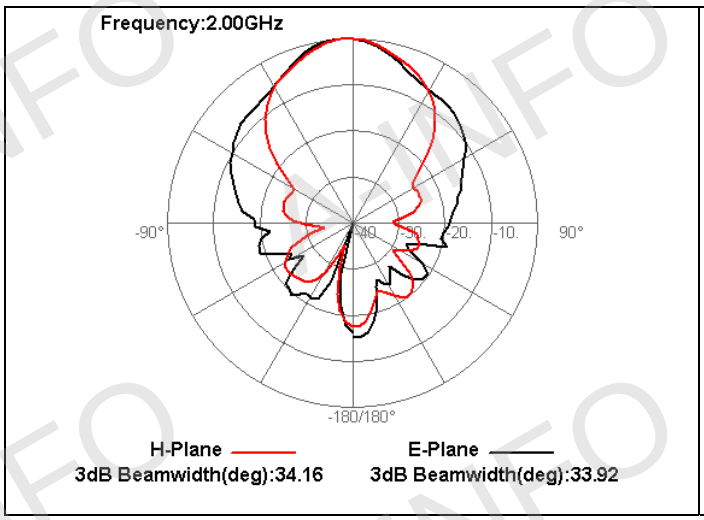
# Broadband Horn Antenna 0.5~6.0GHz(continued)

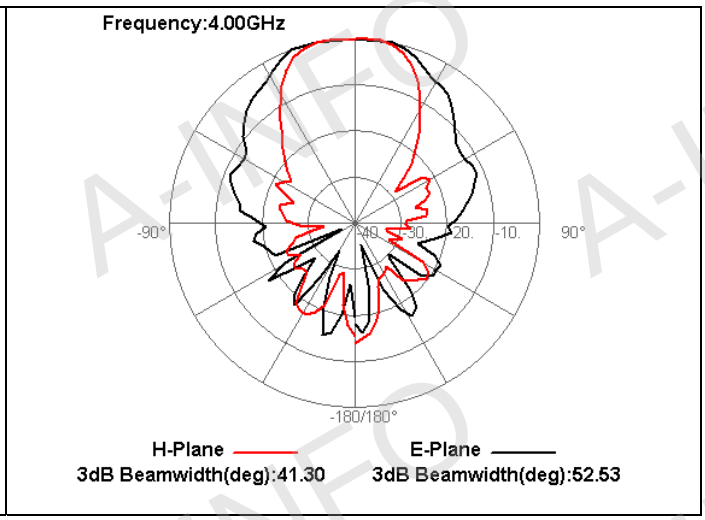
**P/N: LB-560**

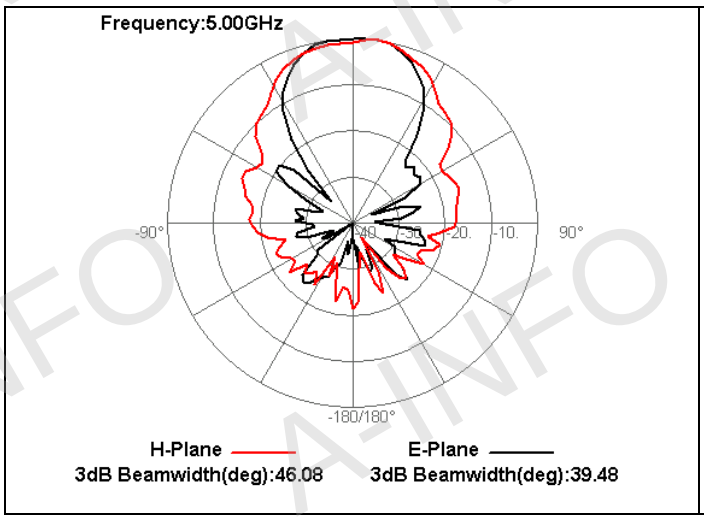
**Pattern**

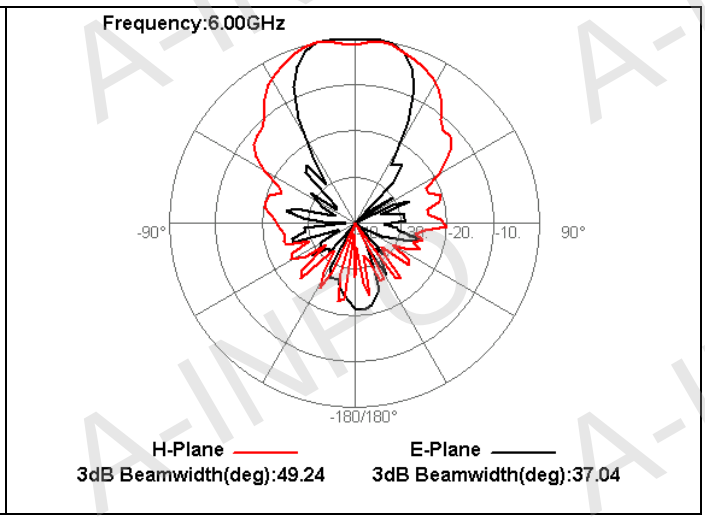





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# Broadband Horn Antenna 0.7~18GHz

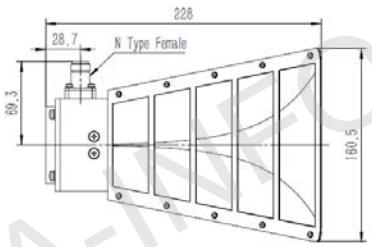
**P/N: LB-7180**

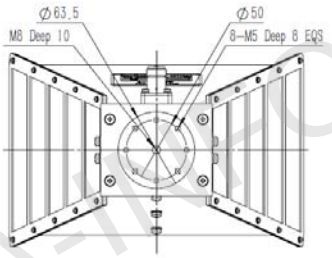


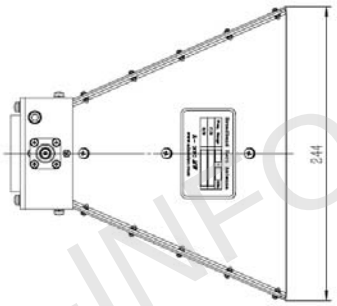
## Technical Specification

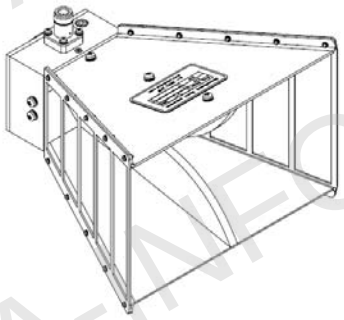
| | |
|---|---|
| Frequency Range(GHz) | 0.7-18 |
| Gain(dB) | 12 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 111 - 13 |
| | H Plane: 78 - 10 |
| Cross Pol. Isolation(dB) | 25 Typ. |
| VSWR | 2.0:1 Typ. |
| Connector | N-Female/SMA-Female |
| Power Handling(W) CW | N-Female: 300 Max |
| | SMA-Female: 50 Max |
| Material | Al |
| Size(mm) | 244x160.5x228 |
| Net Weight(Kg) | 1.5 Around |

## Outline Drawing and Mounting(Size: mm)

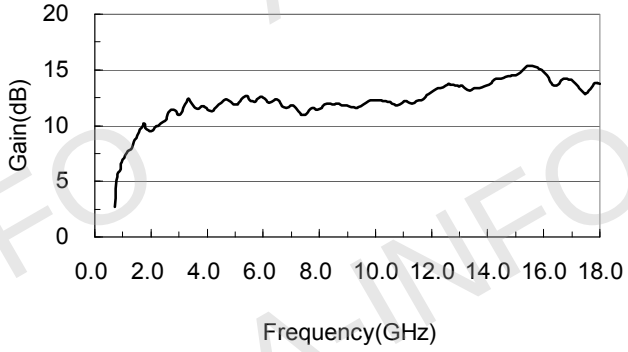


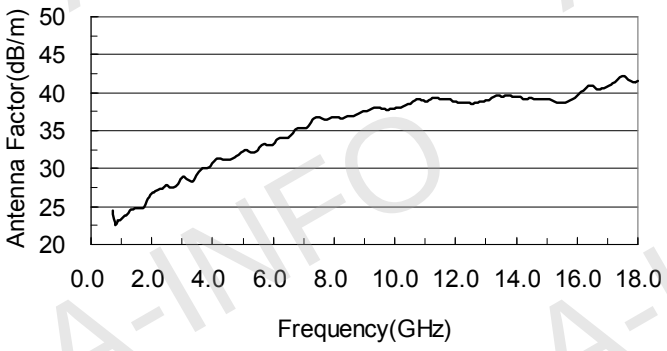



## Gain




## Antenna Factor



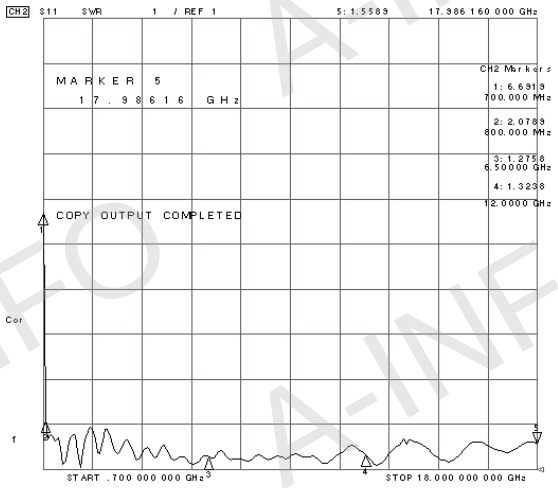



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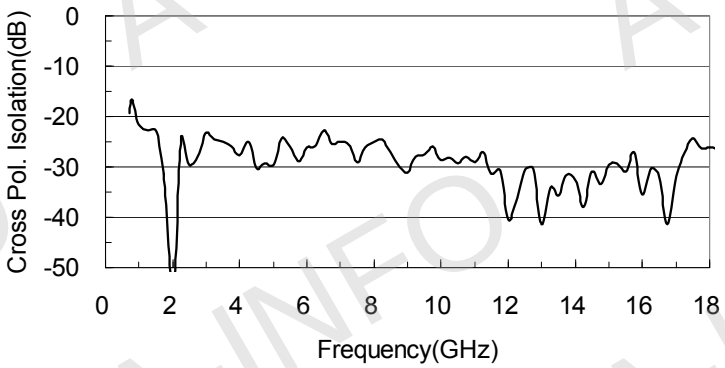
# Broadband Horn Antenna 0.7~18GHz(continued)

**P/N: LB-7180**

**VSWR**

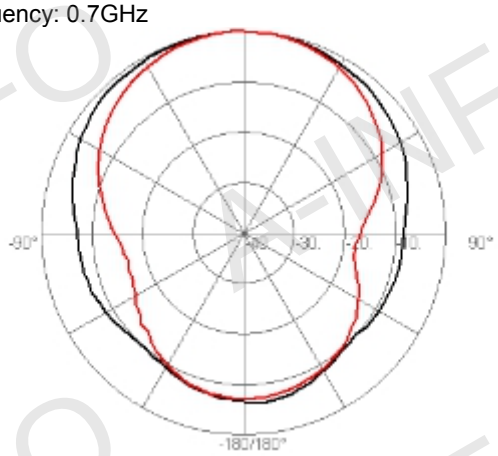



**Cross Polarization Isolation**




**Pattern**

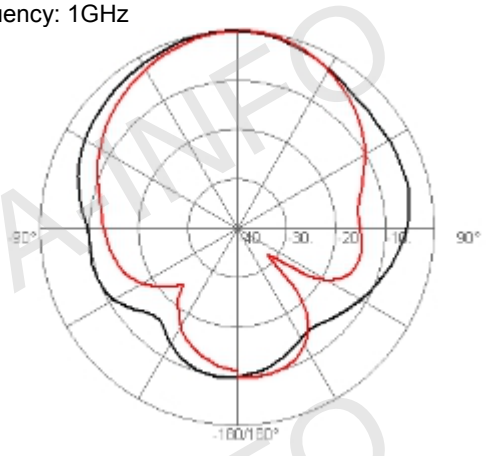
Frequency: 0.7GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 73.02 3dB Beamwidth (deg): 110.37

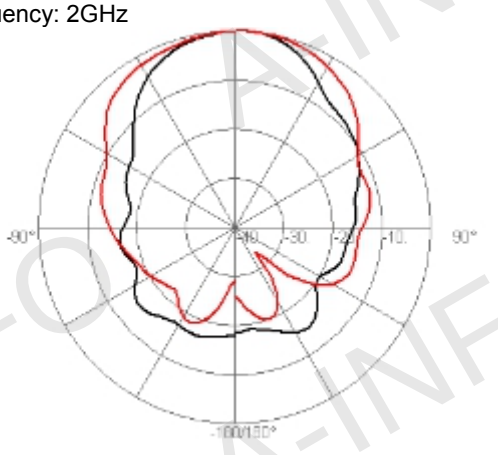
Frequency: 1GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 60.33 3dB Beamwidth (deg): 74.98

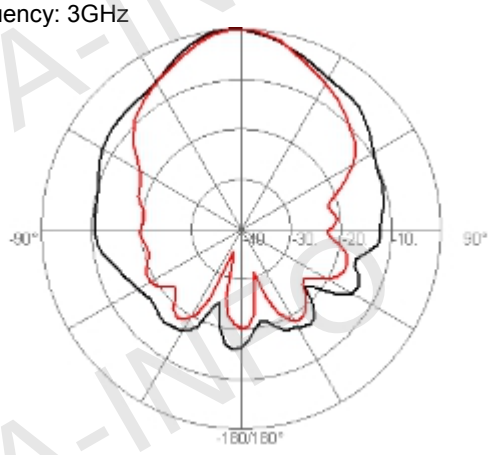
Frequency: 2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 73.65 3dB Beamwidth (deg): 45.94

Frequency: 3GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 34.00 3dB Beamwidth (deg): 37.71



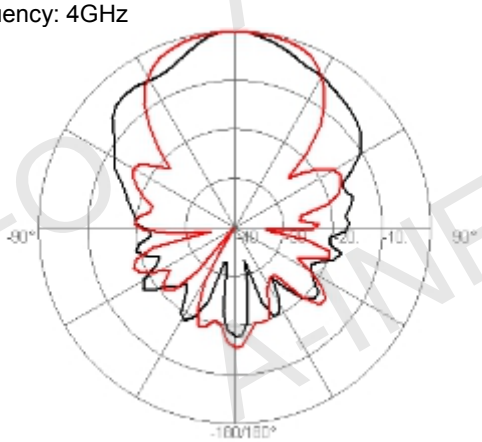
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# Broadband Horn Antenna 0.7~18GHz(continued)

**P/N: LB-7180**

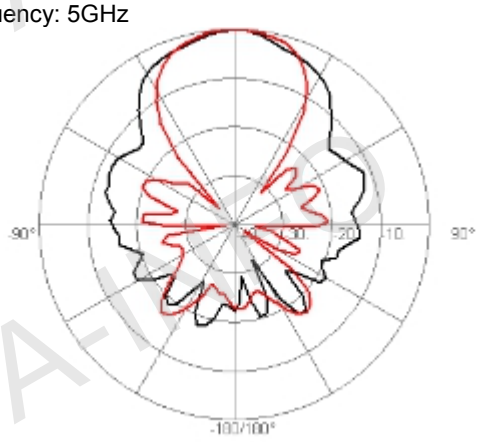
**Pattern**

Frequency: 4GHz



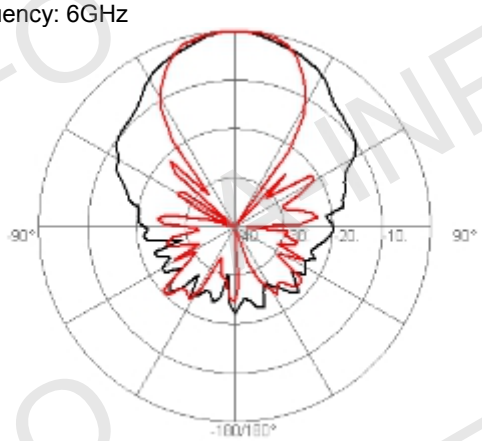
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 52.66 3dB Beamwidth (deg): 32.98

Frequency: 5GHz



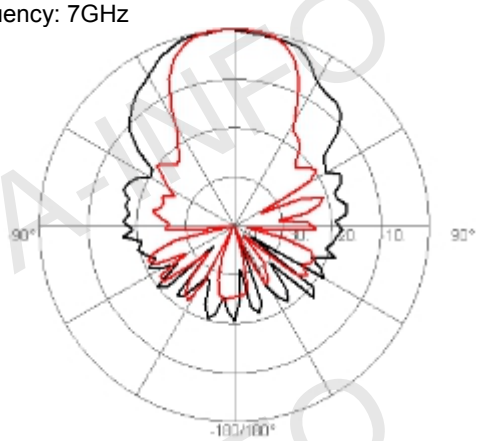
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 41.04 3dB Beamwidth (deg): 42.57

Frequency: 6GHz



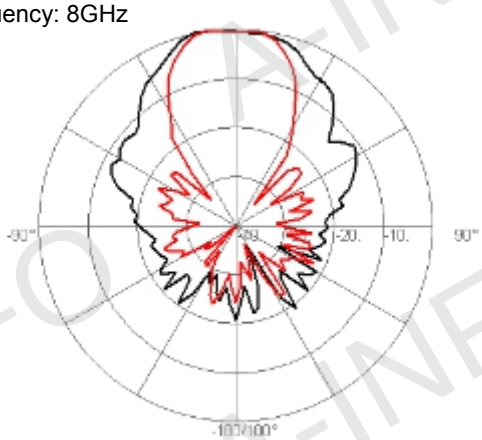
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 39.53 3dB Beamwidth (deg): 44.56

Frequency: 7GHz



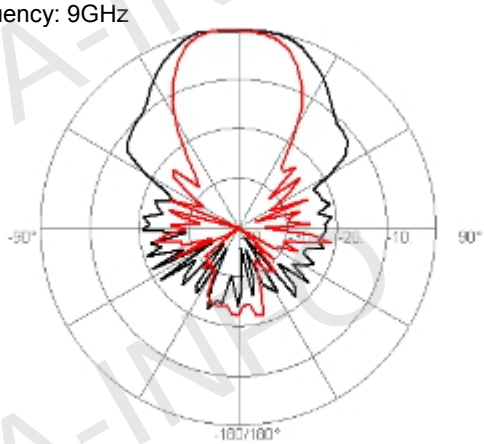
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 36.30 3dB Beamwidth (deg): 49.21

Frequency: 8GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 32.88 3dB Beamwidth (deg): 42.74

Frequency: 9GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.08 3dB Beamwidth (deg): 46.42



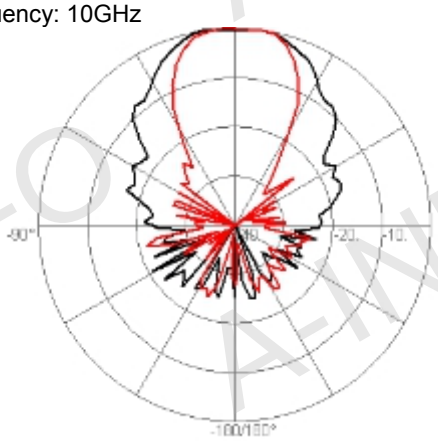
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# Broadband Horn Antenna 0.7~18GHz(continued)

**P/N: LB-7180**

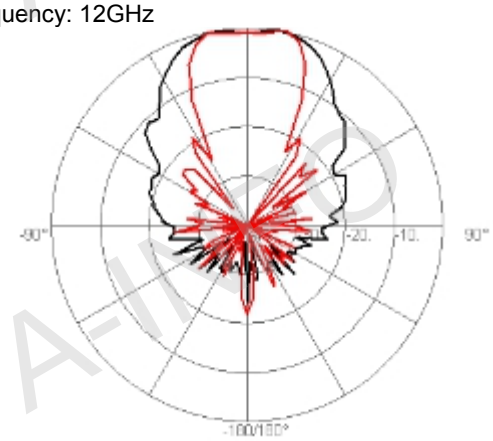
**Pattern**

Frequency: 10GHz



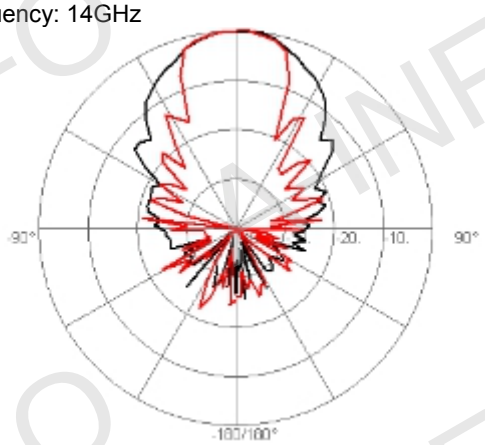
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.25 3dB Beamwidth (deg): 44.44

Frequency: 12GHz



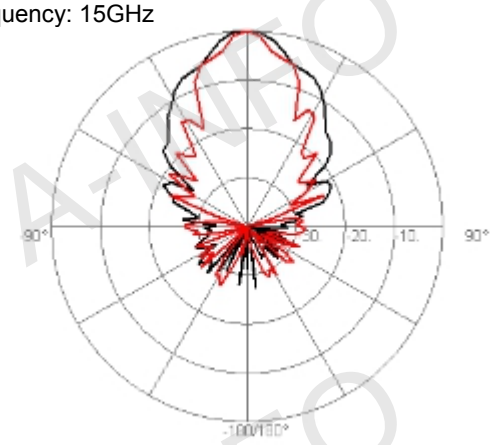
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.96 3dB Beamwidth (deg): 47.92

Frequency: 14GHz



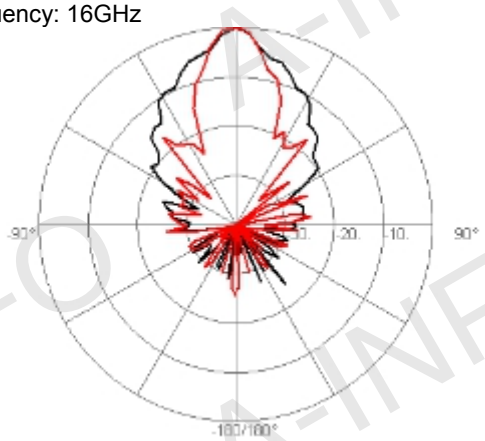
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 32.73 3dB Beamwidth (deg): 35.76

Frequency: 15GHz



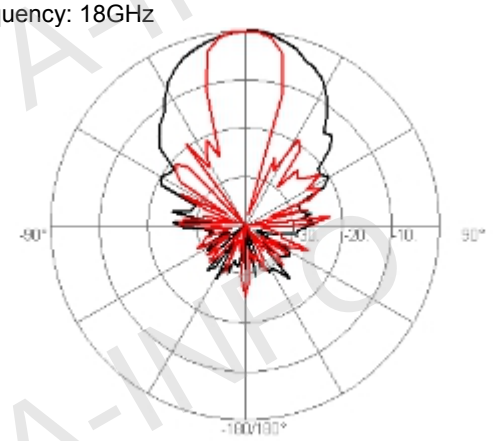
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 13.62 3dB Beamwidth (deg): 21.35

Frequency: 16GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 13.57 3dB Beamwidth (deg): 13.07

Frequency: 18GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 22.14 3dB Beamwidth (deg): 36.30



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# Broadband Horn Antenna 0.8~8.0GHz

**P/N: LB-880**

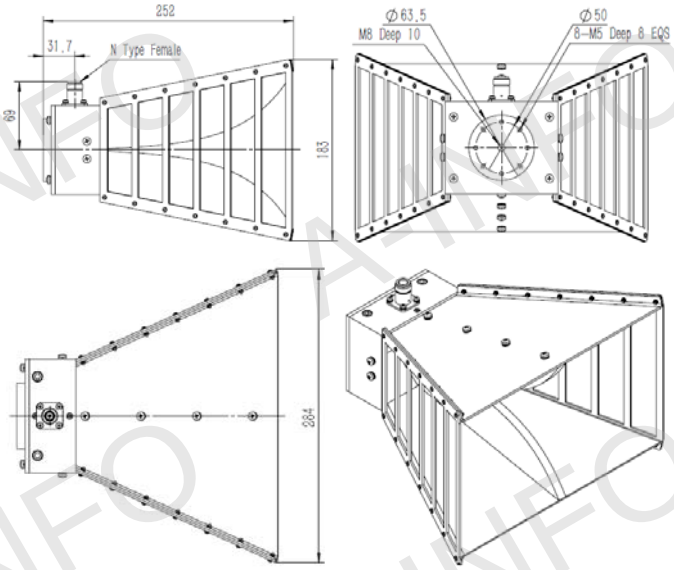


## Technical Specification

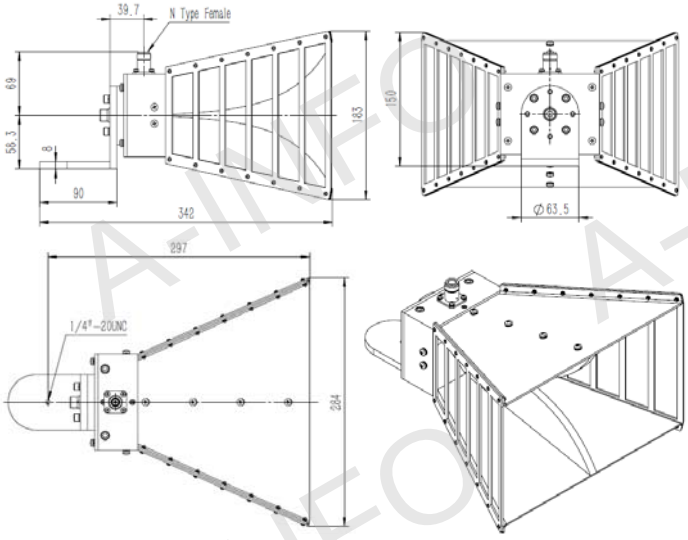
| | | |
|---|---|---|
| Frequency Range(GHz) | 0.8-8 | |
| Gain(dBi) | 10 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 26 - 110 |
| | H Plane: | 24 - 67 |
| Cross Pol. Isolation(dB) | 30 Typ. | |
| VSWR | 2.0:1 Typ. | |
| Connector | N-Female/SMA-Female | |
| Power Handling(W) CW | N-Female: | 300 Max |
| | SMA-Female: | 50 Max |
| Material | Al | |
| Size(mm) | 284 x 183 x 252 | |
| Net Weight(Kg) | 2.1 Around | |

**Outline Drawing (Size: mm)** For SMA-Female output outline drawing, please contact A-INFO.

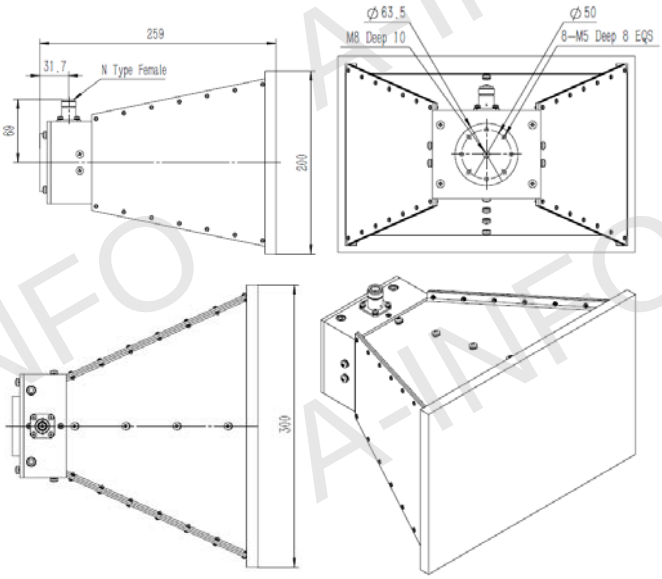
N-Female Output



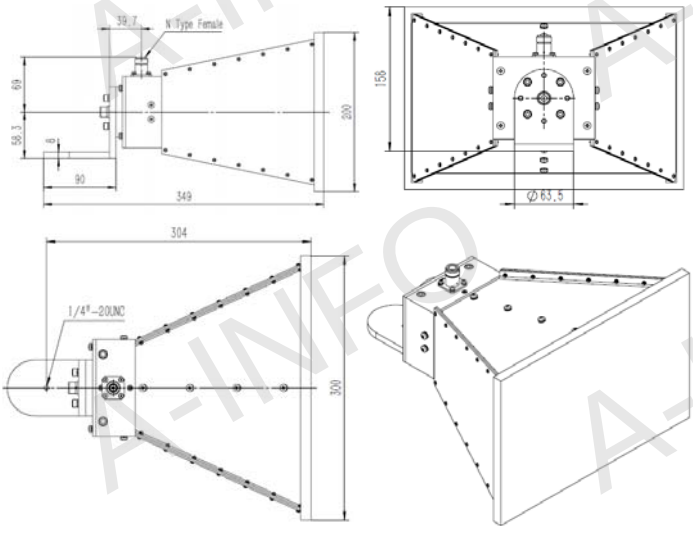

N-Female Output with L type Mounting Bracket




N-Female Output with Radome




N-Female Output w/ L type Mounting Bracket&Radome



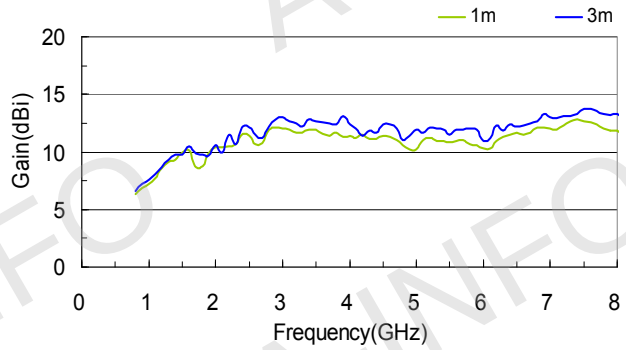



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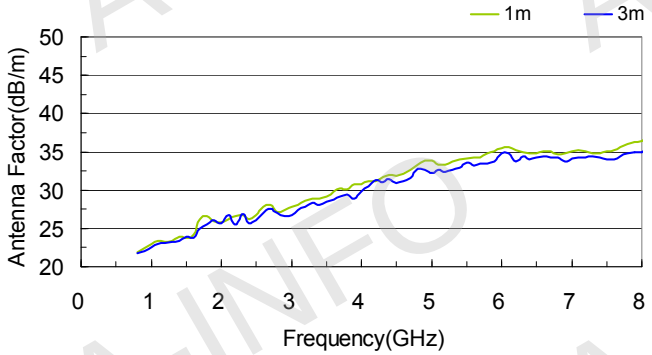
# Broadband Horn Antenna 0.8~8.0GHz(continued)

## P/N: LB-880

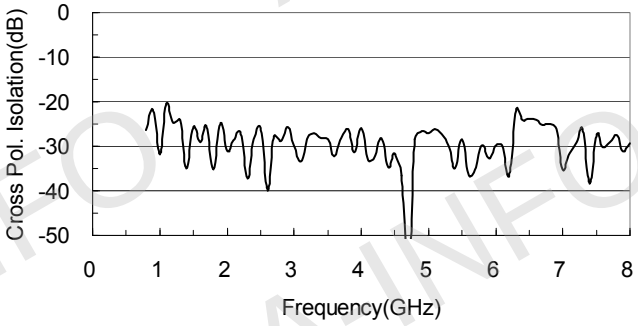
### Gain



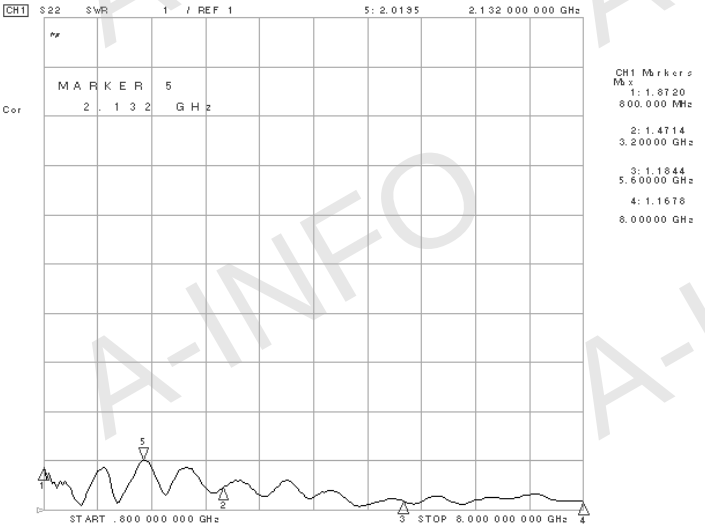

### Antenna Factor




### Cross Polarization Isolation

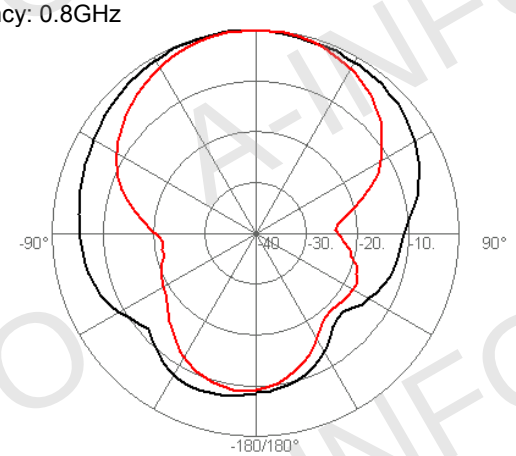



### VSWR




### Pattern

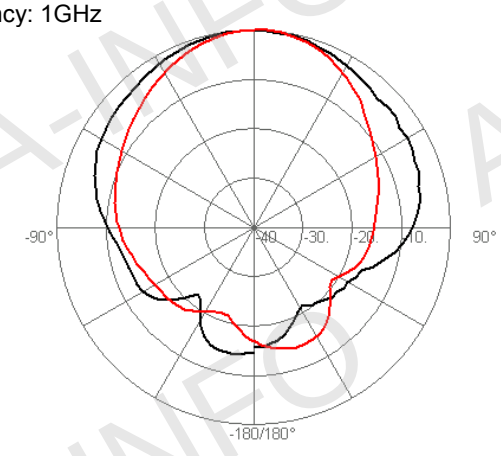
Frequency: 0.8GHz




H-Plane 3dB Beamwidth (deg): 66.16

E-Plane 3dB Beamwidth (deg): 109.75

Frequency: 1GHz




H-Plane 3dB Beamwidth (deg): 52.08

E-Plane 3dB Beamwidth (deg): 81.09



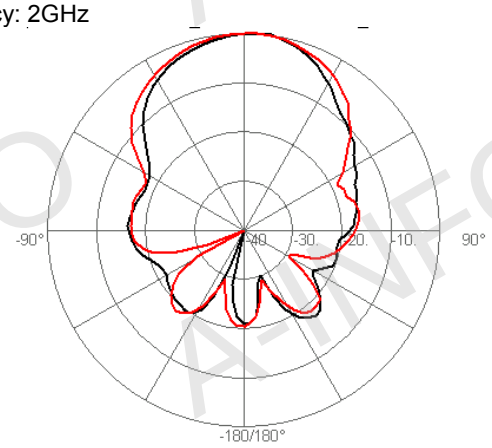
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# Broadband Horn Antenna 0.8~8.0GHz(continued)

**P/N: LB-880**

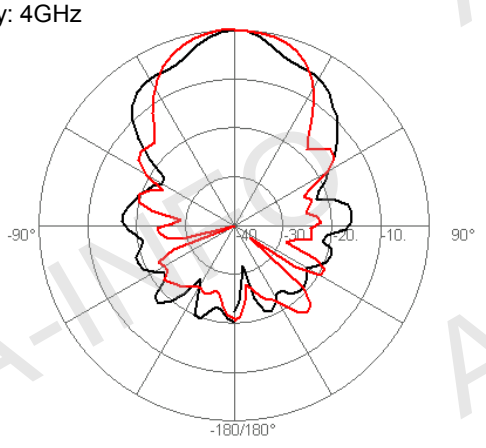
**Pattern**

Frequency: 2GHz



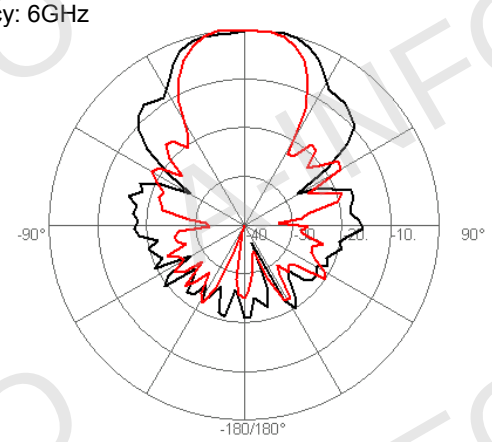

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 53.97 3dB Beamwidth (deg): 44.74

Frequency: 4GHz



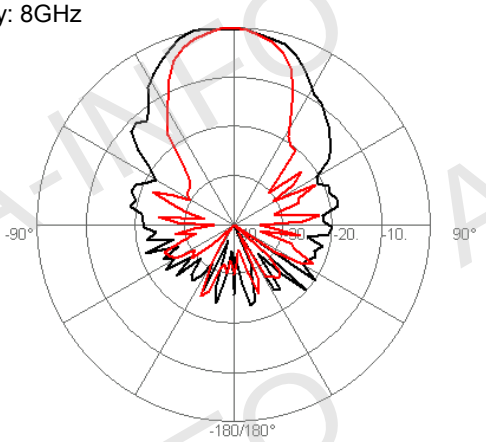

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 42.50 3dB Beamwidth (deg): 26.12

Frequency: 6GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 35.72 3dB Beamwidth (deg): 46.19

Frequency: 8GHz



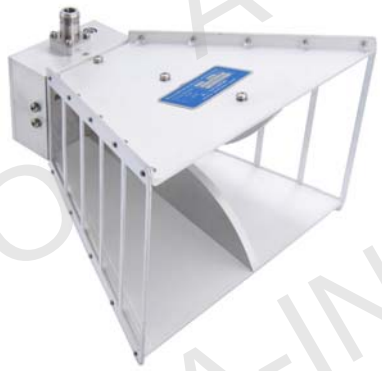

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 30.79 3dB Beamwidth (deg): 40.86



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# Broadband Horn Antenna 0.8~18GHz

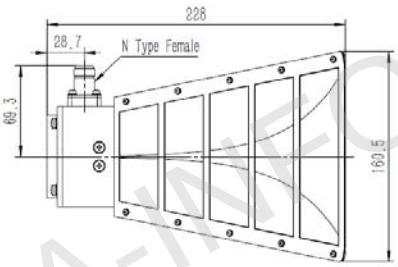
**P/N: LB-8180**

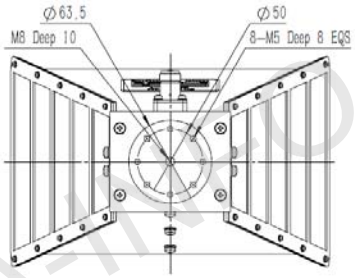


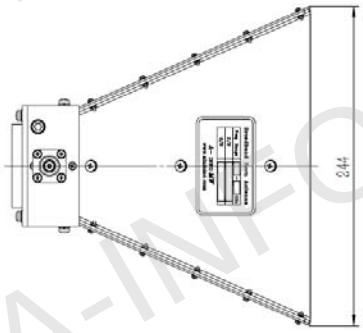
## Technical Specification

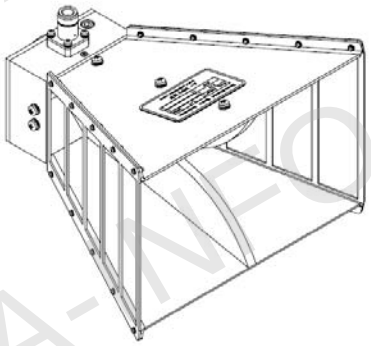
| | |
|---|---|
| Frequency Range(GHz) | 0.8-18 |
| Gain(dB) | 12 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 111 - 13 |
| | H Plane: 78 - 10 |
| Cross Pol. Isolation(dB) | 25 Typ. |
| VSWR | 1.5:1 Typ. |
| Connector | N-Female/SMA-Female |
| Power Handling(W) CW | N-Female: 300 Max |
| | SMA-Female: 50 Max |
| Material | Al |
| Size(mm) | 244 x 160.5 x 228 |
| Net Weight(Kg) | 1.5 Around |

## Outline Drawing and Mounting(Size: mm)

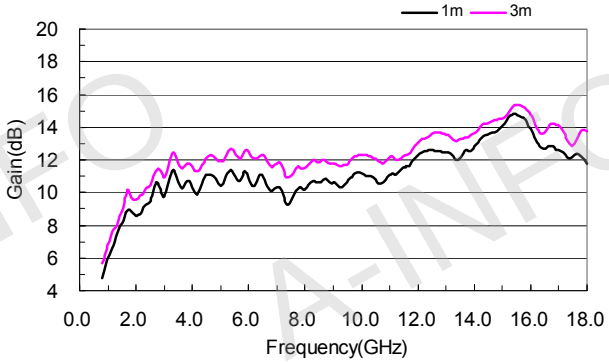


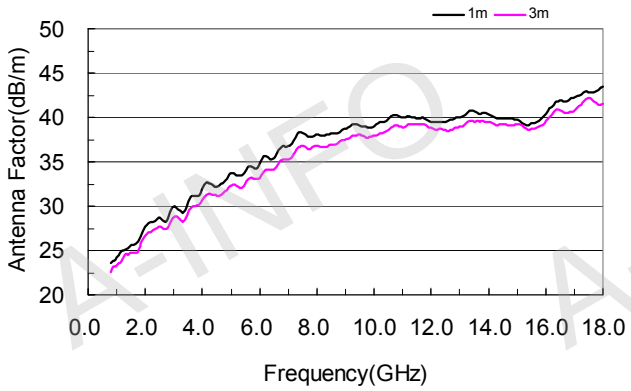



## Gain




## Antenna Factor



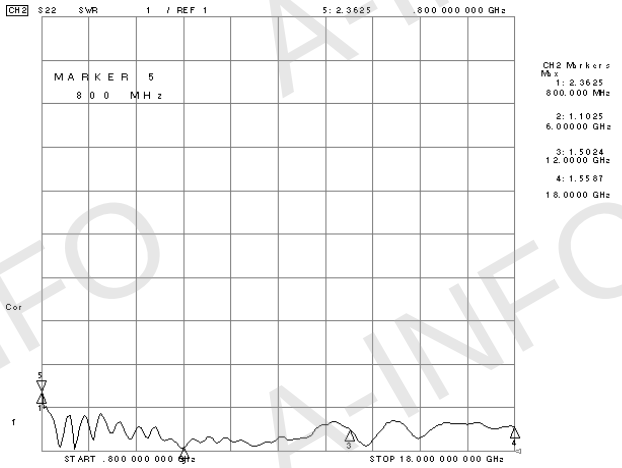



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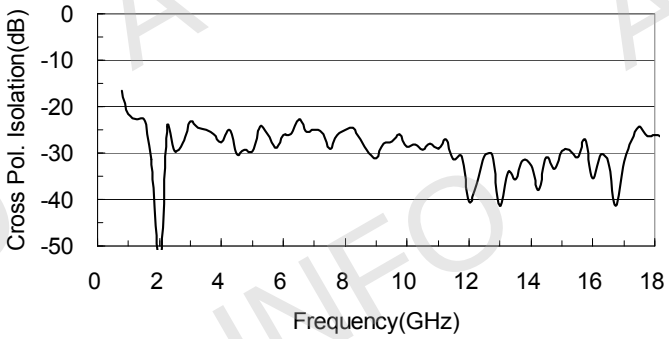
# Broadband Horn Antenna 0.8~18GHz(continued)

**P/N: LB-8180**

**VSWR**

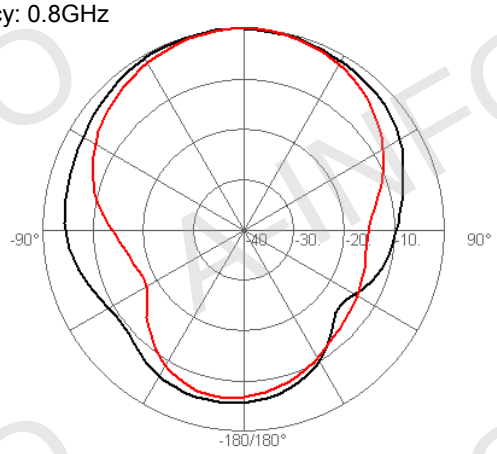



**Cross Polarization Isolation**




**Pattern**

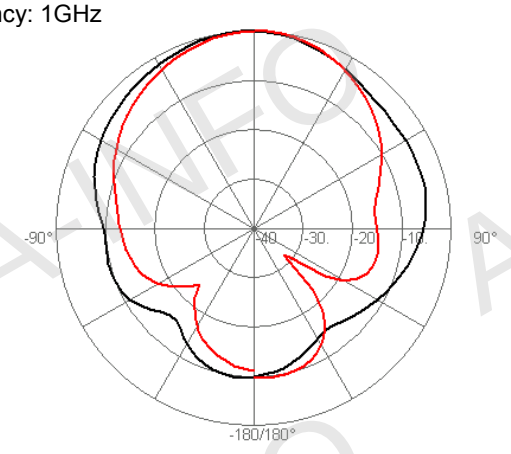
Frequency: 0.8GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 77.35 3dB Beamwidth (deg): 110.18

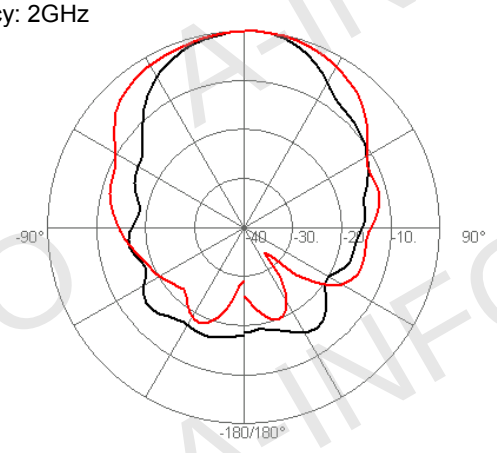
Frequency: 1GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 60.33 3dB Beamwidth (deg): 74.98

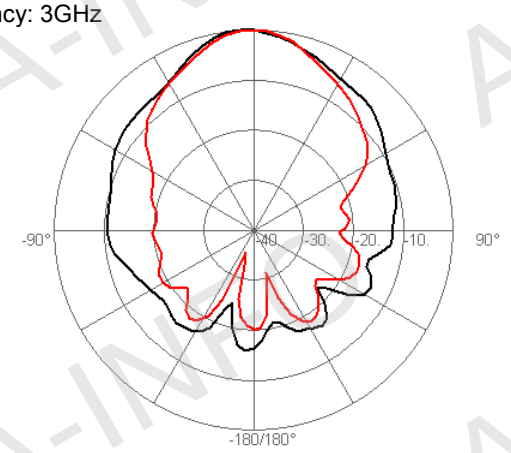
Frequency: 2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 73.65 3dB Beamwidth (deg): 45.94

Frequency: 3GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 34.00 3dB Beamwidth (deg): 37.71



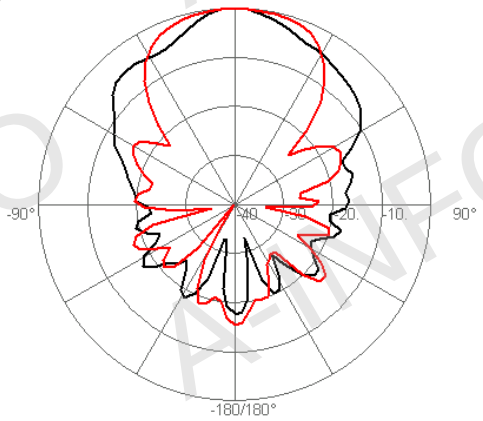
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# Broadband Horn Antenna 0.8~18GHz(continued)

**P/N: LB-8180**

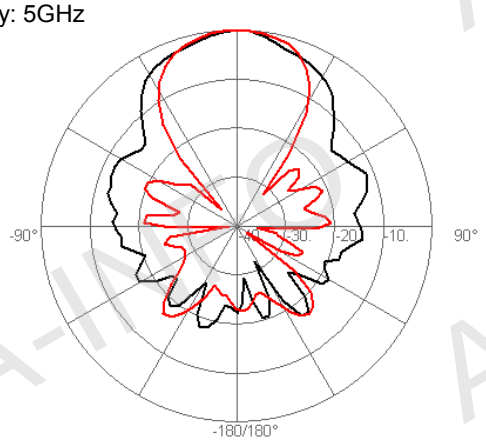
**Pattern**

Frequency: 4GHz



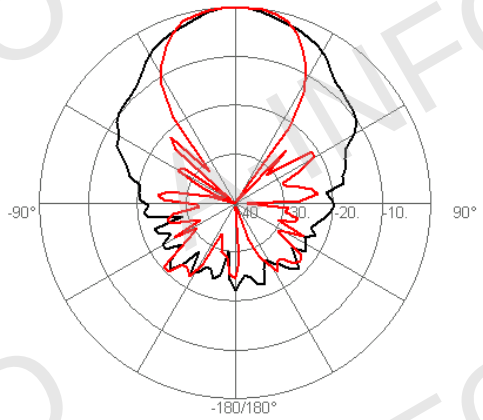

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 52.66 3dB Beamwidth (deg): 32.98

Frequency: 5GHz



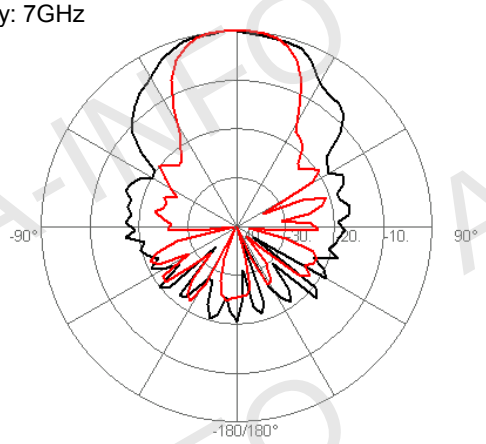

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 41.04 3dB Beamwidth (deg): 42.57

Frequency: 6GHz



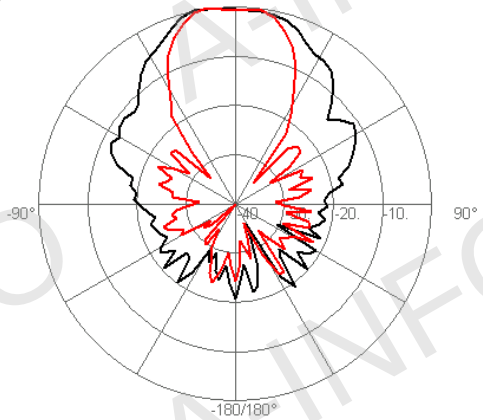

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 39.53 3dB Beamwidth (deg): 44.56

Frequency: 7GHz



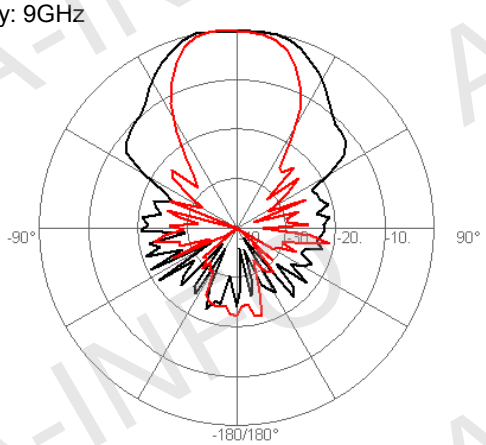

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 36.30 3dB Beamwidth (deg): 49.21

Frequency: 8GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 32.88 3dB Beamwidth (deg): 42.74

Frequency: 9GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.08 3dB Beamwidth (deg): 46.42



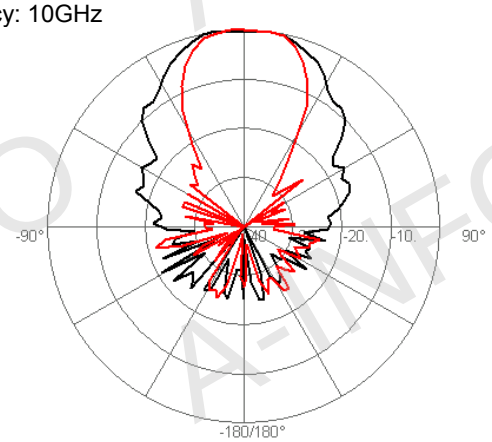
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# Broadband Horn Antenna 0.8~18GHz(continued)

**P/N: LB-8180**

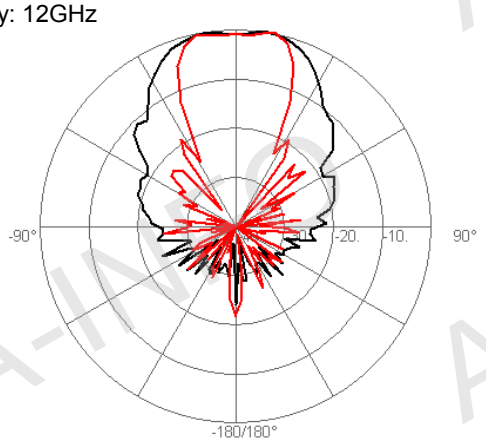
**Pattern**

Frequency: 10GHz



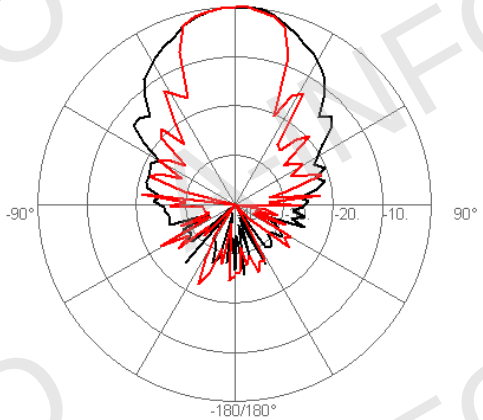

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.25 3dB Beamwidth (deg): 44.44

Frequency: 12GHz



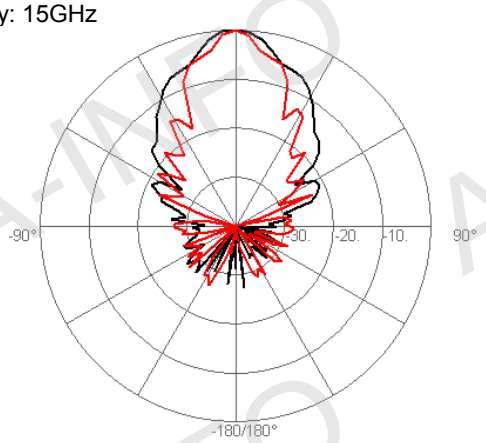

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.96 3dB Beamwidth (deg): 47.92

Frequency: 14GHz



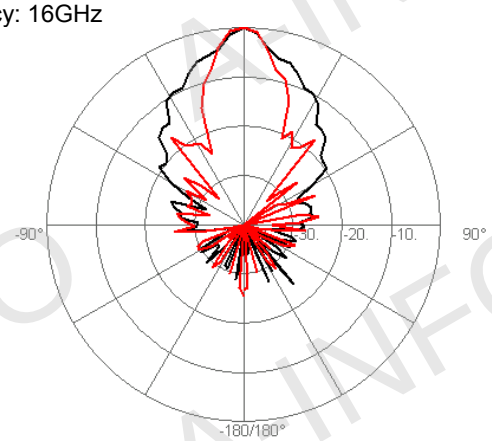

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 32.73 3dB Beamwidth (deg): 35.76

Frequency: 15GHz



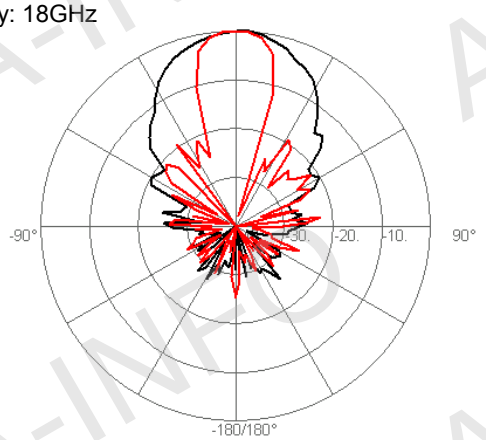

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 13.62 3dB Beamwidth (deg): 21.35

Frequency: 16GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 13.57 3dB Beamwidth (deg): 13.07

Frequency: 18GHz



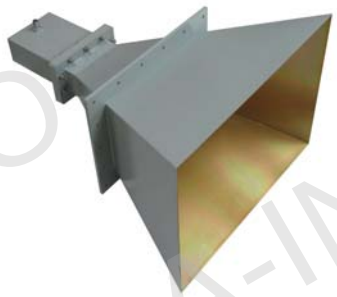

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 22.14 3dB Beamwidth (deg): 36.30



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# Broadband Horn Antenna 1.0~2.5GHz

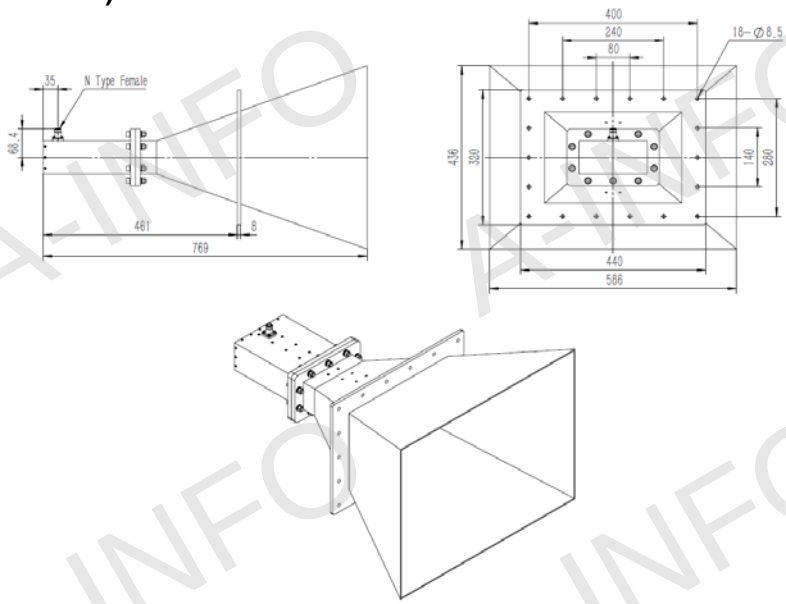
**P/N: LB-1025**



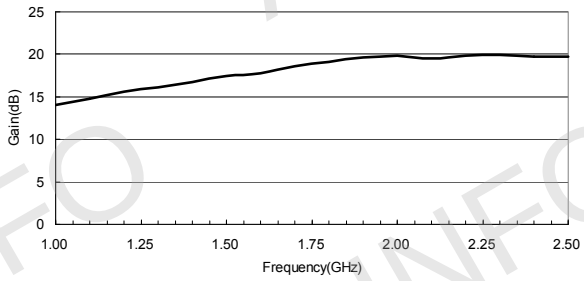
## Technical Specification

| | | |
|---|---|---|
| Frequency Range(GHz) | 1.0-2.5 | |
| Gain(dB) | 15 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 34 - 14 |
| | H Plane: | 35 - 16 |
| Cross Pol. Isolation(dB) | 25 Typ. | |
| VSWR | 1.5:1 Typ./ 2.0:1 Max. | |
| Connector | N-Female or SMA-Female or 7/16 Female | |
| Power Handling(W) CW | N-Female: | 500 Max |
| | SMA-Female: | 50 Max. |
| | 7/16 Female: | 500 Max. |
| Material | Al | |
| Size(mm) | 586 x 436 x 769 | |
| Net Weight(Kg) | 10.5 Around | |

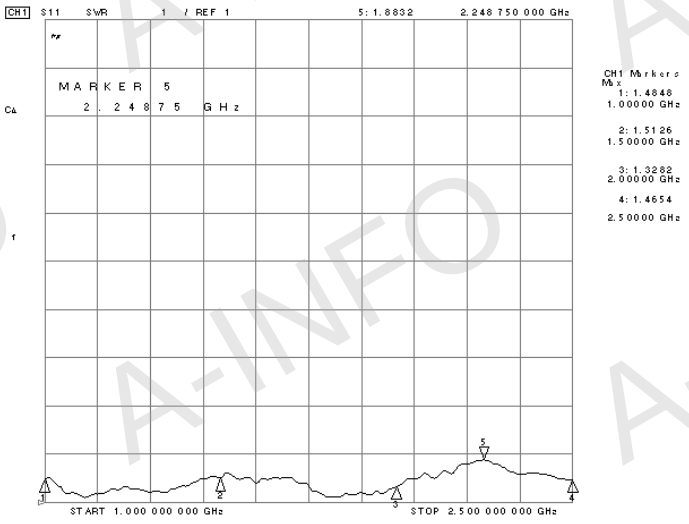
## Outline Drawing(Size: mm)




## Gain




## VSWR





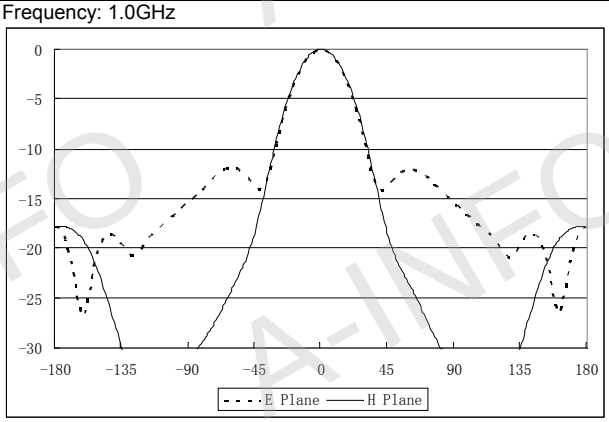

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# Broadband Horn Antenna 1.0~2.5GHz(continued)

**P/N: LB-1025**

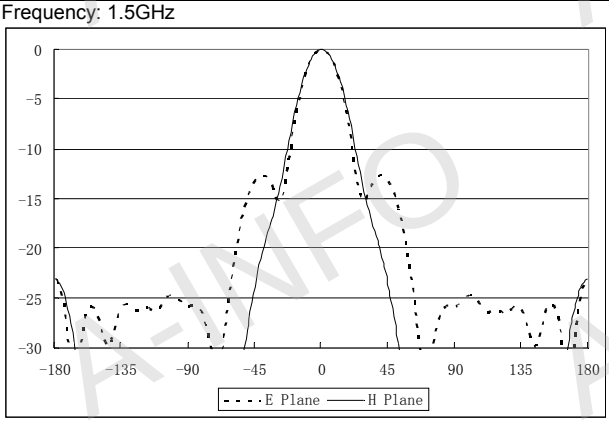
**Pattern**

Frequency: 1.0GHz



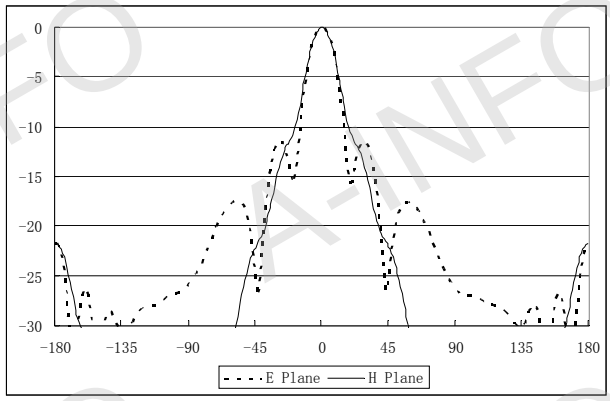

H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 35.0 3dB Beamwidth(deg): 34.0

Frequency: 1.5GHz



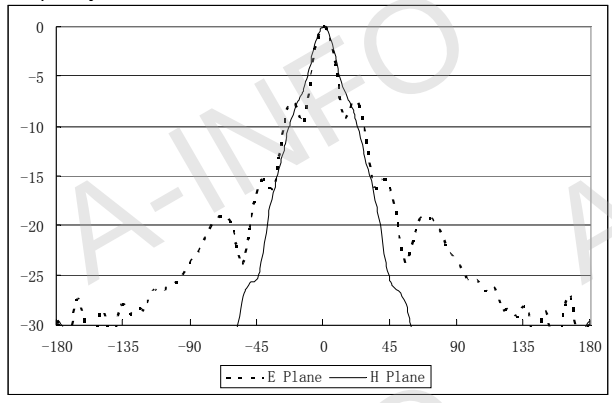

H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 25.0 3dB Beamwidth(deg): 24.0

Frequency: 2.0GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 18.0 3dB Beamwidth(deg): 17.4

Frequency: 2.5GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 16.0 3dB Beamwidth(deg): 14.0



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# Broadband Horn Antenna 1.0~18.0GHz

**P/N: LB-10180**

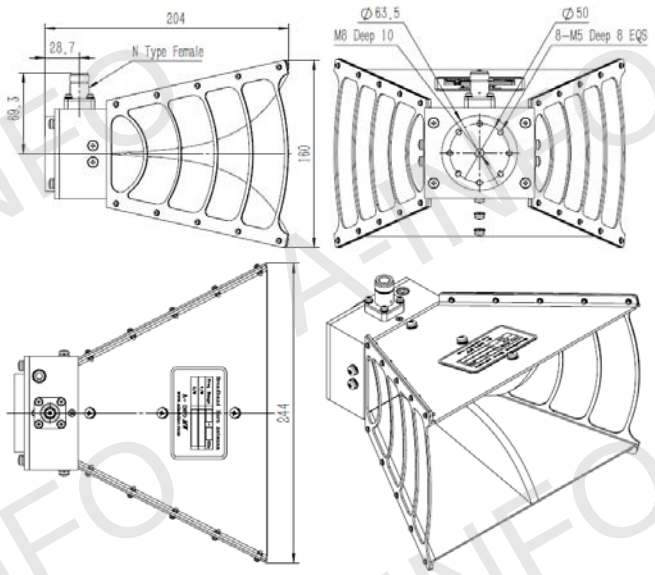


## Technical Specification

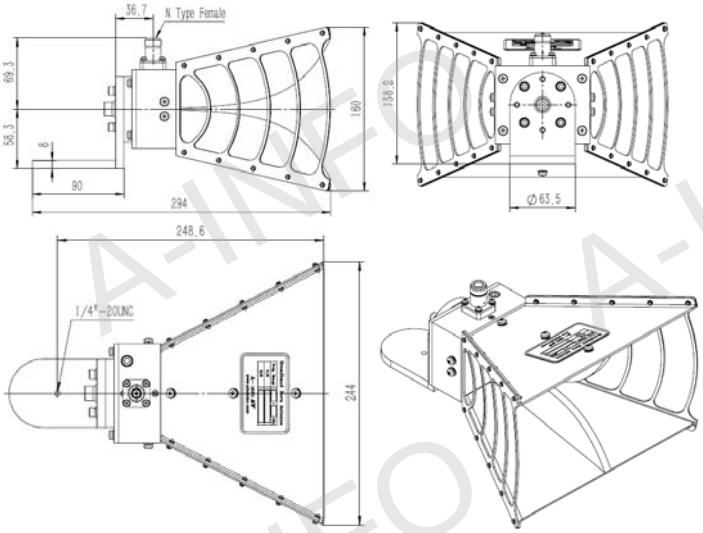
| | | |
|---|---|---|
| Frequency Range(GHz) | 1-18 | |
| Gain(dBi) | 11 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 97 - 13 |
| | H Plane: | 62 - 11 |
| Cross Pol. Isolation(dB) | 25 Typ. | |
| VSWR | 1.5:1 Typ. | |
| Connector | N-Female/SMA-Female | |
| Power Handling(W) CW | N-Female: | 300 Max |
| | SMA-Female: | 50 Max |
| Material | Al | |
| Size(mm) | 244x160x204 | |
| Net Weight(Kg) | 1.4 Around | |

**Outline Drawing(Size: mm)** For SMA-Female output outline drawing, please contact A-INFO.

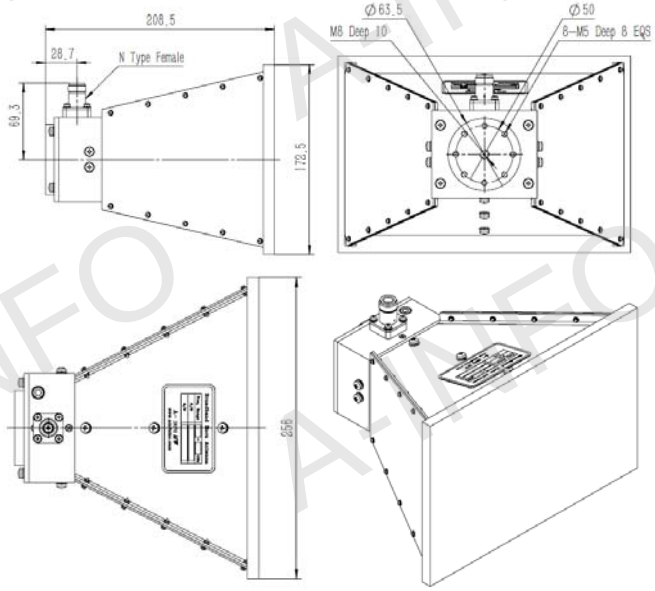
N-Female Output



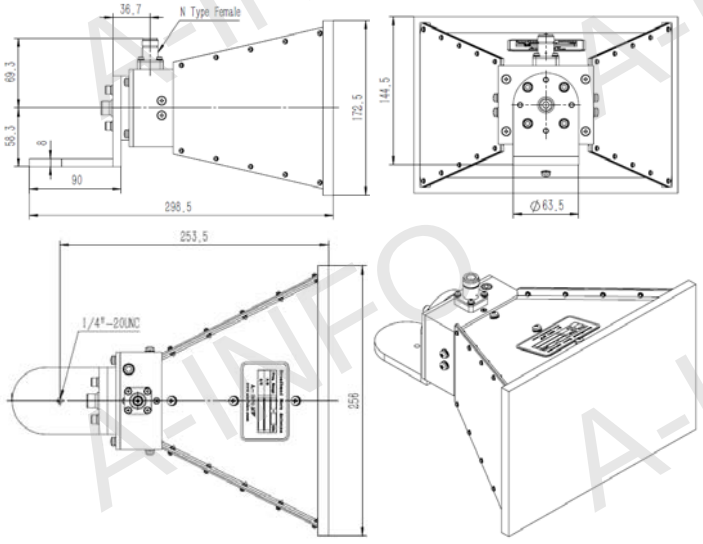

N-Female Output with L type mounting bracket




N-Female Output with Radome




N-Female Output w/ L type mounting bracket & Radome



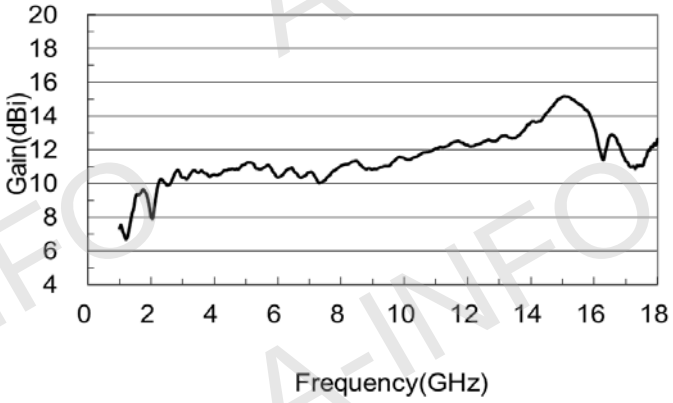



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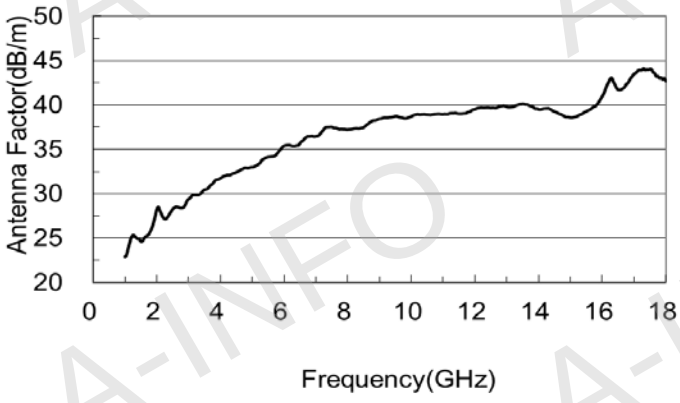
# Broadband Horn Antenna 1.0~18.0GHz(continued)

**P/N: LB-10180**

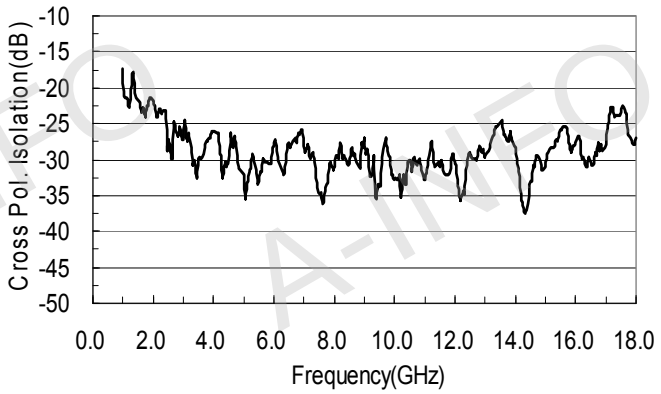
## Gain



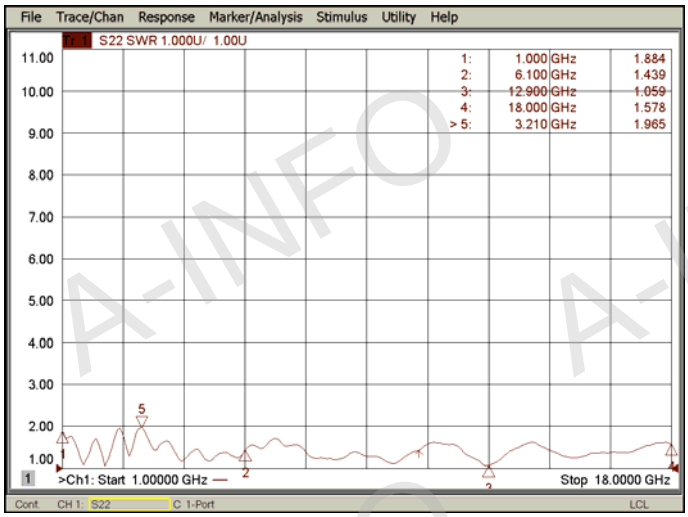

## Antenna Factor



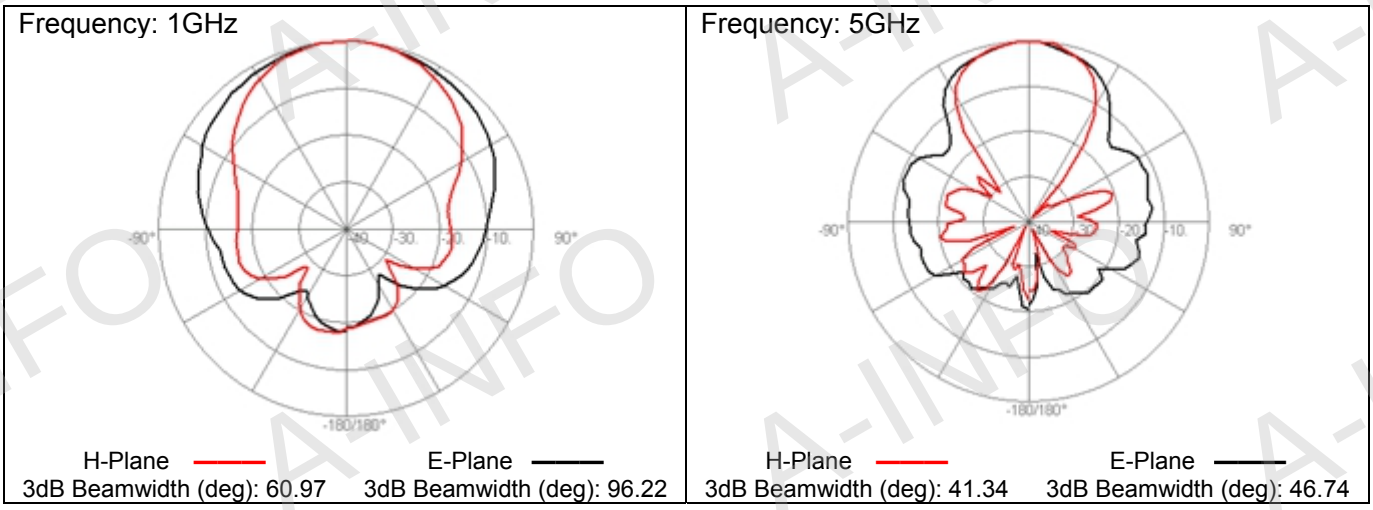

## Cross Polarization Isolation




## VSWR




## Pattern





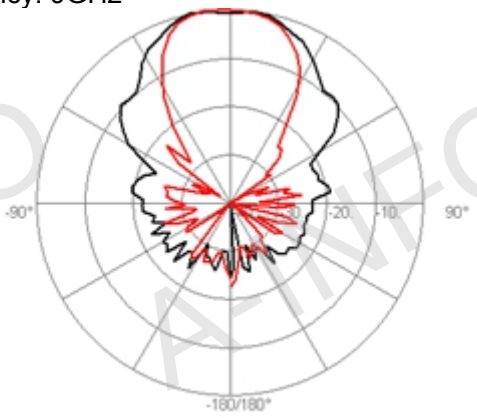

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# Broadband Horn Antenna 1.0~18.0GHz(continued)

**P/N: LB-10180**

**Pattern**

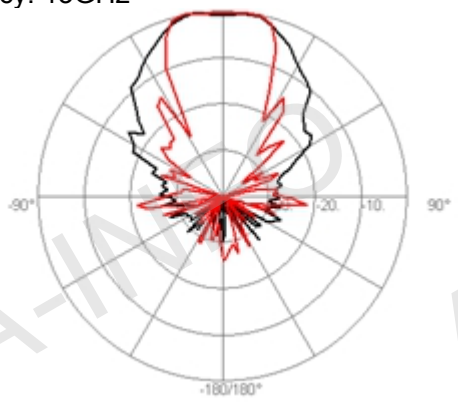
Frequency: 9GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 38.02 3dB Beamwidth (deg): 46.42

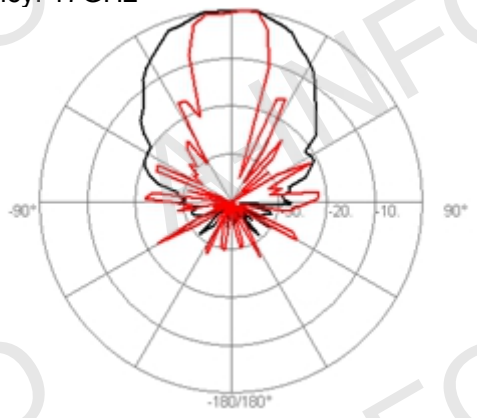
Frequency: 13GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 34.34 3dB Beamwidth (deg): 41.18

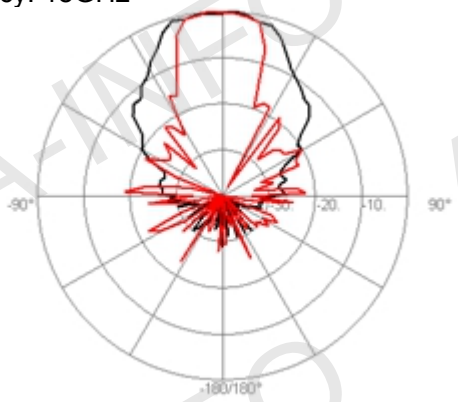
Frequency: 17GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.28 3dB Beamwidth (deg): 42.89

Frequency: 18GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg):27.53 3dB Beamwidth (deg): 39.78



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# Broadband Horn Antenna 2.0~6.0GHz

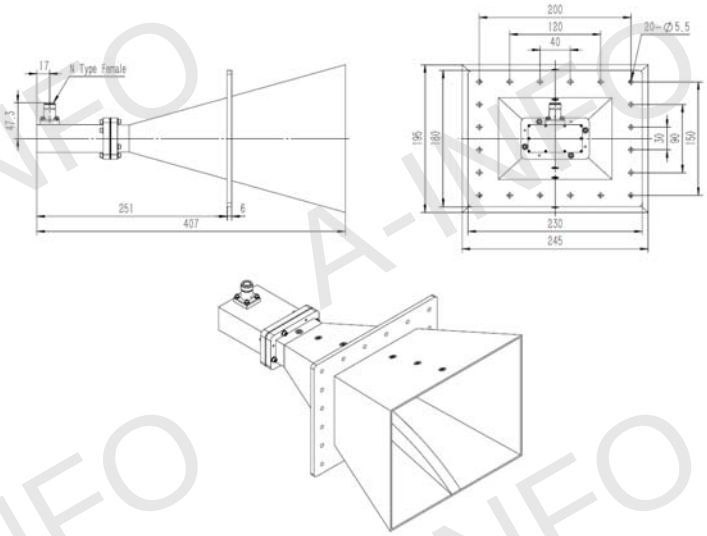
**P/N: LB-2060-H**



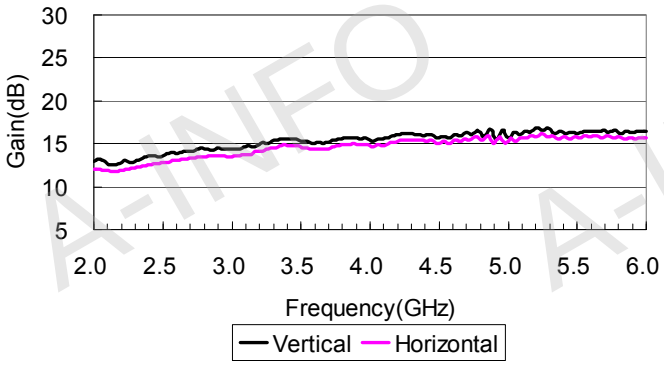
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2.0 - 6.0 |
| Gain(dB) | 15 Typ. |
| Polarization | Linear |
| 3dB Beamwidth (deg.) | H Plane: 40 - 17 |
| | E Plane: 37 - 20 |
| Cross Pol. Isolation (dB ) | 25 Typ., 20 Min. |
| VSWR | 1.3 Typ., 2.0 Max. |
| Connector | N-Female/SMA-Female |
| Power Handling(W) CW | N-Female: 500 Max. |
| | SMA-Female: 50 Max. |
| Material | Al |
| Size(mm) | 245x195x407 |
| Net Weight(Kg) | 2.6 Around |

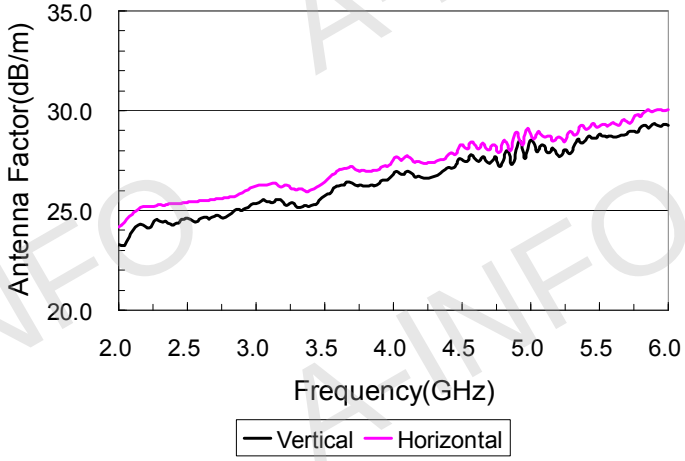
## Outline Drawing(Size:mm)



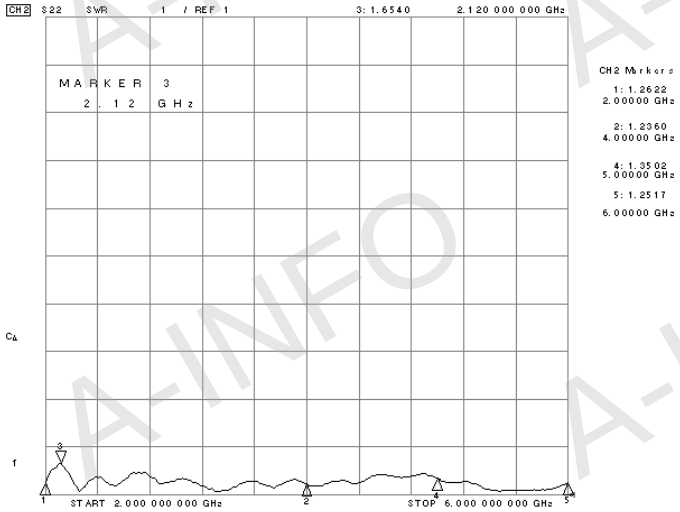

## Gain @ 1m distance




## Antenna Factor @ 1m distance




## VSWR



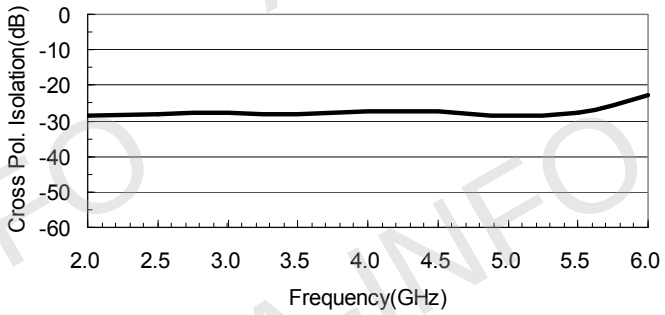



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# Broadband Horn Antenna 2.0~6.0GHz(continued)

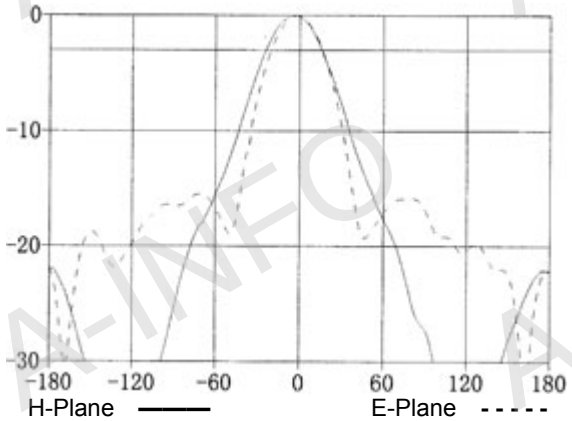
**P/N: LB-2060-H**

## Cross Polarization Isolation




## Pattern

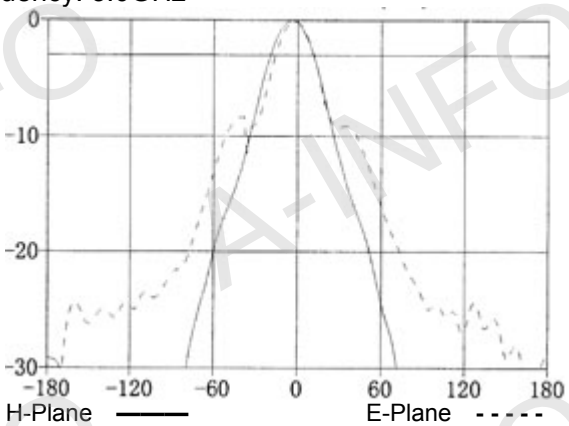
Frequency: 2.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 39.59 3dB Beamwidth (deg): 36.66

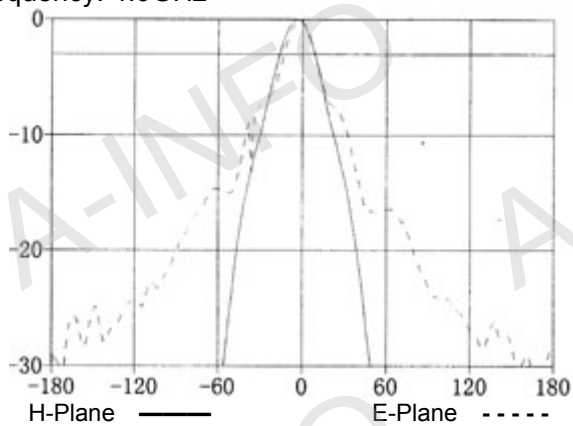
Frequency: 3.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 30.79 3dB Beamwidth (deg): 27.34

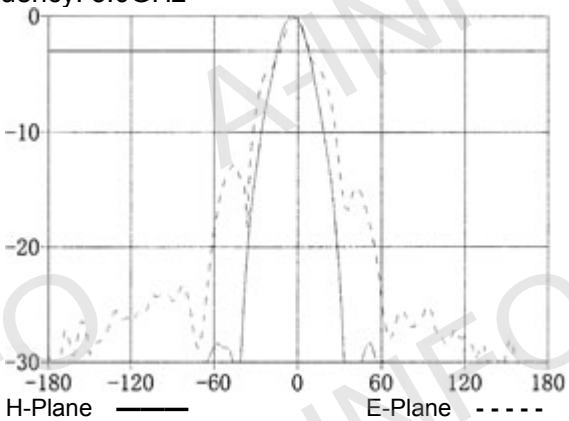
Frequency: 4.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 24.90 3dB Beamwidth (deg): 21.93

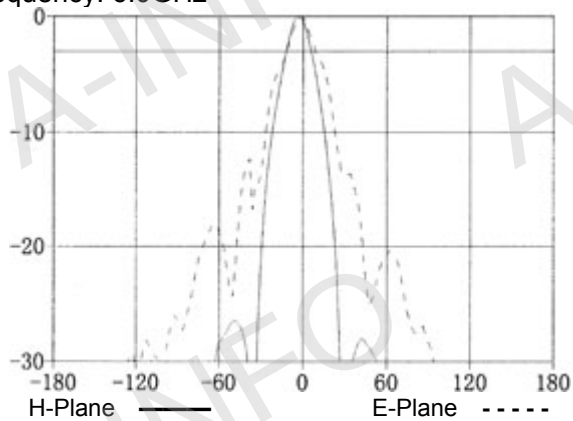
Frequency: 5.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 24.90 3dB Beamwidth (deg): 21.93

Frequency: 6.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 17.65 3dB Beamwidth (deg): 20.56



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# Broadband Horn Antenna 2.0~18.0GHz

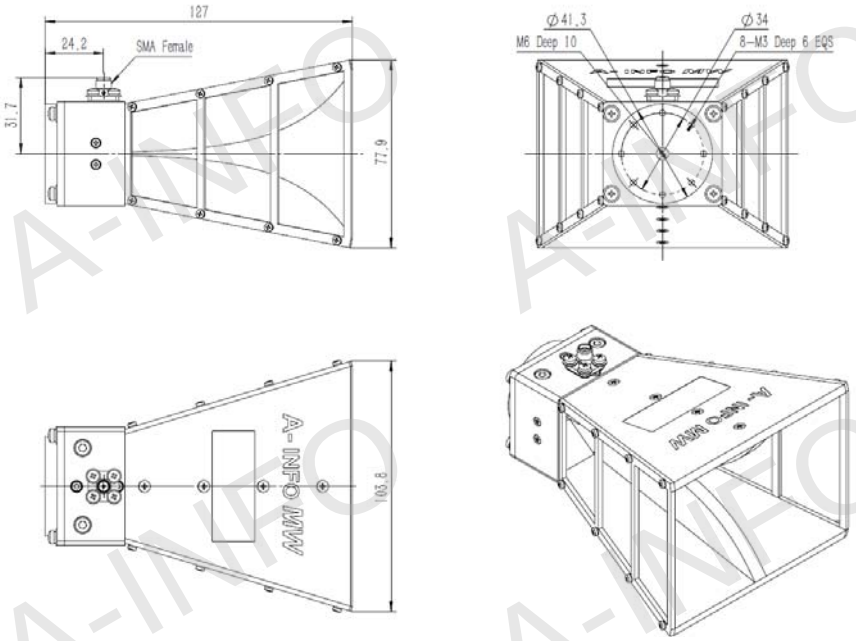
**P/N: LB-20180**



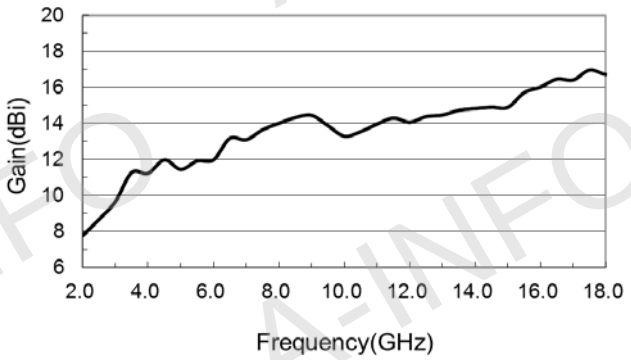
## Technical Specification

| | | |
|---|---|---|
| Frequency Range(GHz) | 2 - 18 | |
| Gain(dB) | 12 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 85 - 19 |
| | H Plane: | 77 - 18 |
| Cross Pol. Isolation (dB ) | 25 Typ. | |
| VSWR | 1.5:1 Typ./ 2.5:1 Max | |
| Connector | SMA-Female/N-Female | |
| Power Handling(W) CW | SMA-Female: 50 Max | |
| | N-Female: 150 Max | |
| Material | Al | |
| Size(mm) | 103.8 x 77.9 x 127 | |
| Net Weight(Kg) | 0.4 Around | |

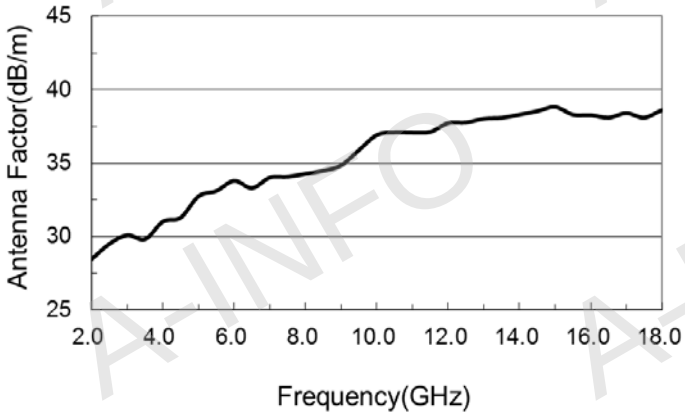
## Outline Drawing(Size: mm)




## Gain




## Antenna Factor



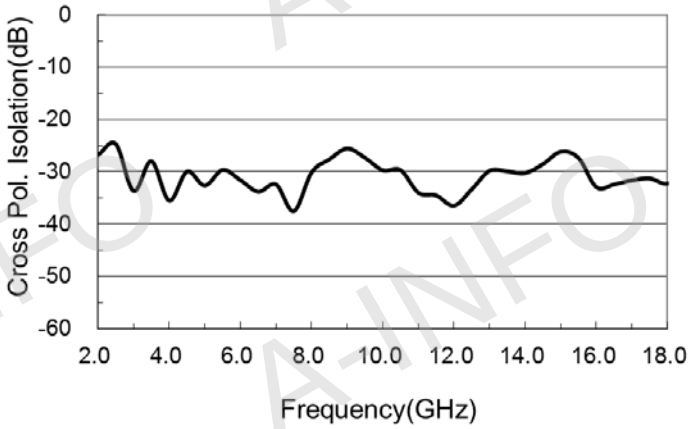



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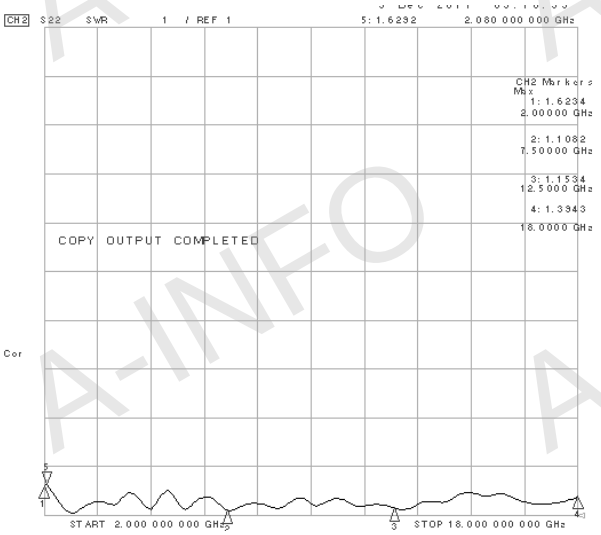
# Broadband Horn Antenna 2.0~18.0GHz(continued)

**P/N: LB-20180**

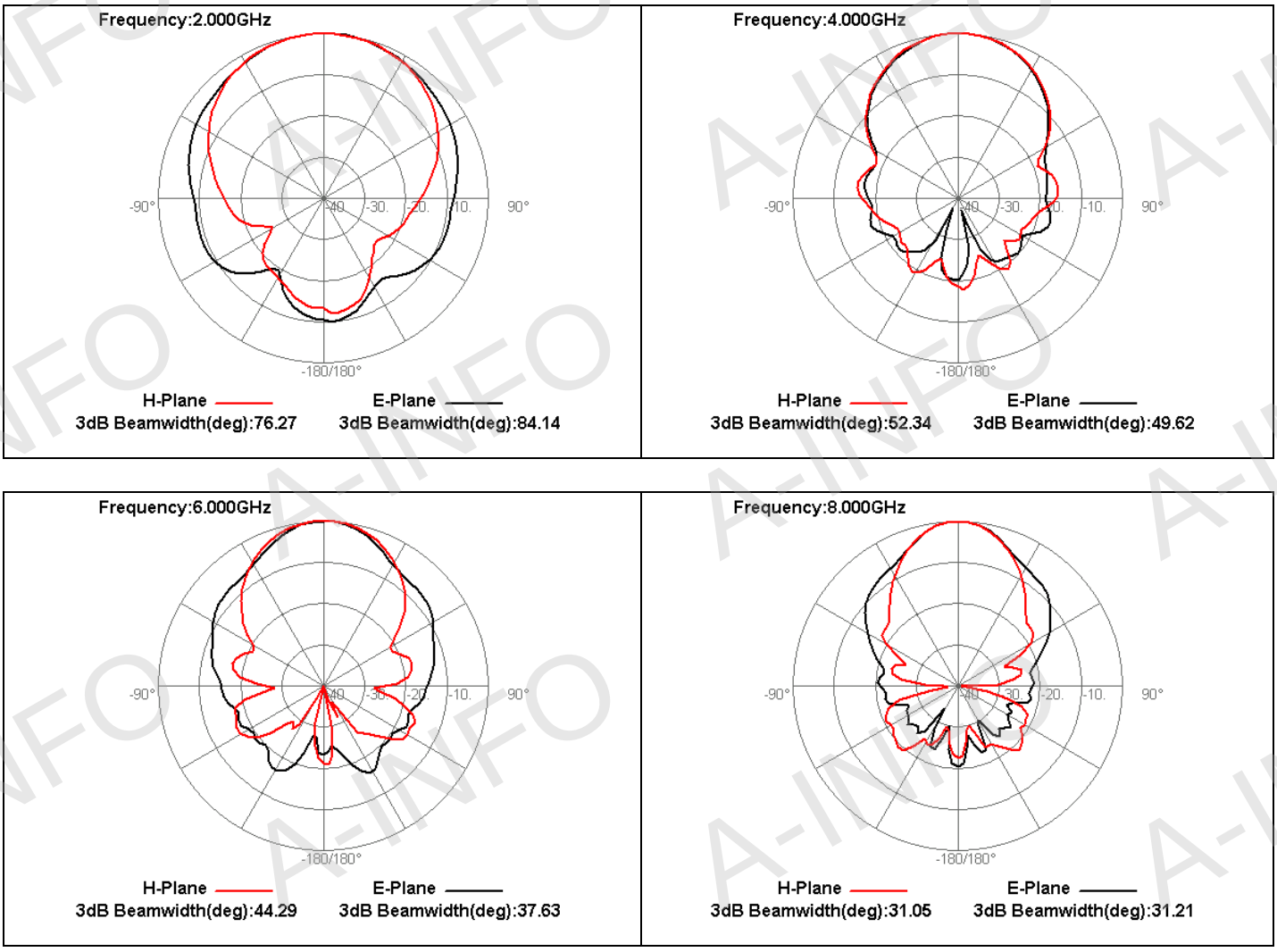
## Cross Pol. Isolation




## VSWR




## Pattern



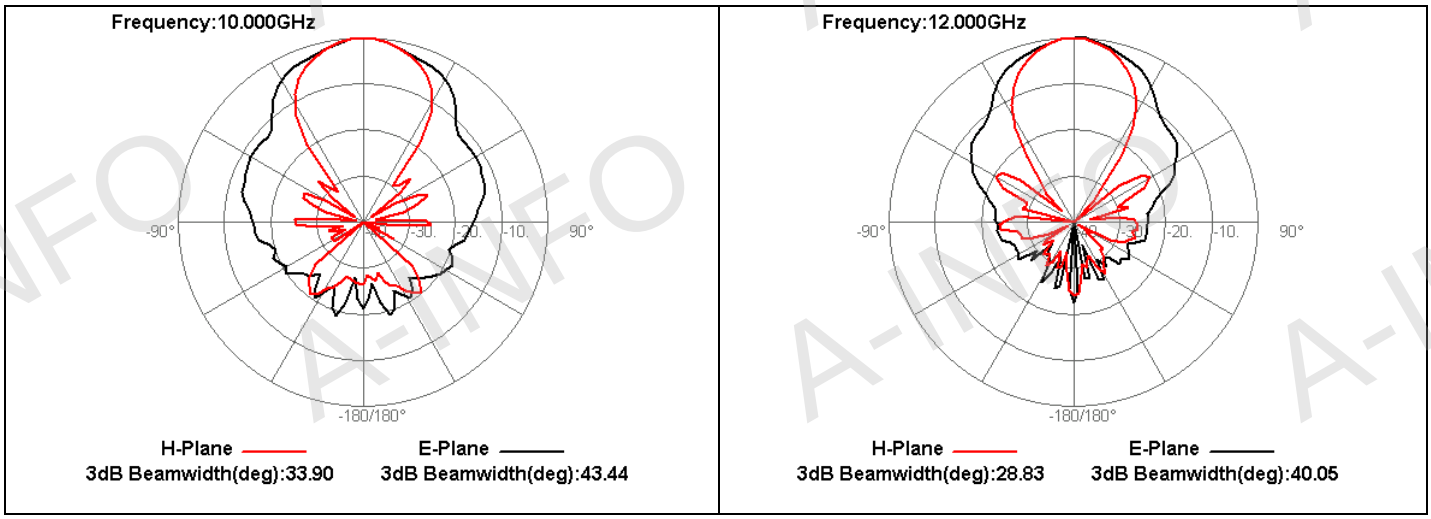


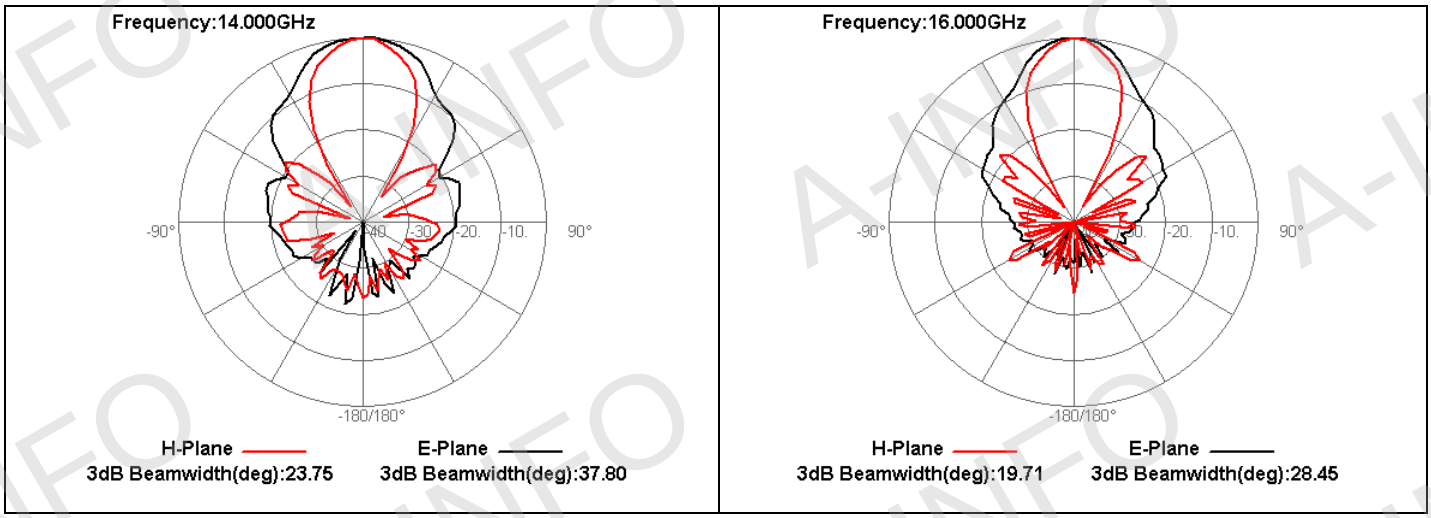

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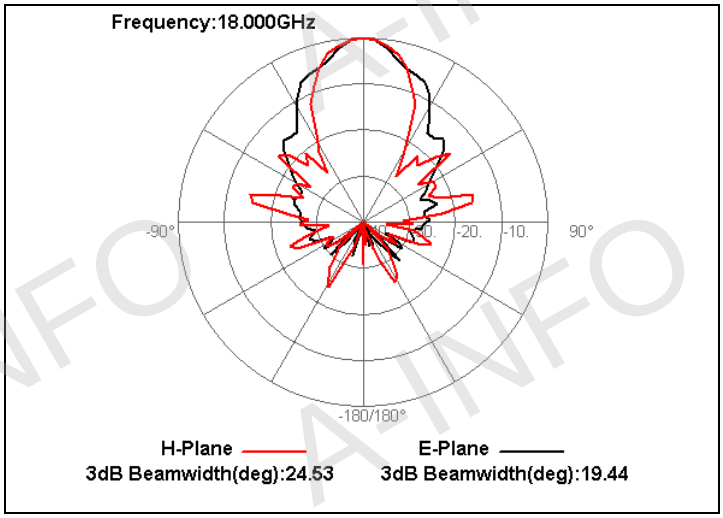
# Broadband Horn Antenna 2.0~18.0GHz(continued)

**P/N: LB-20180**

**Pattern**






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# Broadband Horn Antenna 2.0~18.0GHz, High Gain

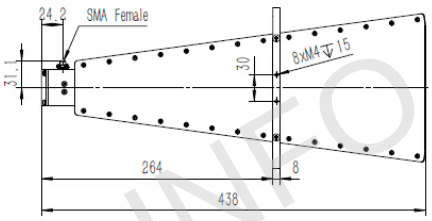
**P/N: LB-20180H**

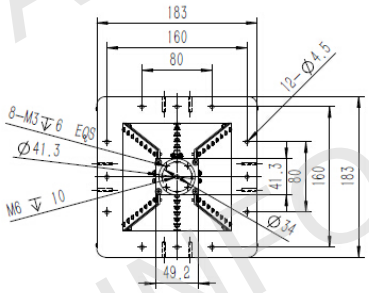


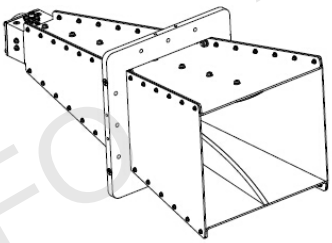
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2 - 18 |
| Gain(dB) | 10-22 Typ. |
| Polarization | Linear |
| VSWR | 1.5:1 Typ. |
| | 2.5:1 Max |
| Cross Pol. Isolation(dB) | -25 Typ. |
| Connector | SMA-Female/N-Female |
| Power Handling(W) CW | SMA-Female: 50 Max |
| | N-Female: 150 Max |
| Size(mm) | 438x183x183 |
| Net Weight(Kg) | 2.12 Around |

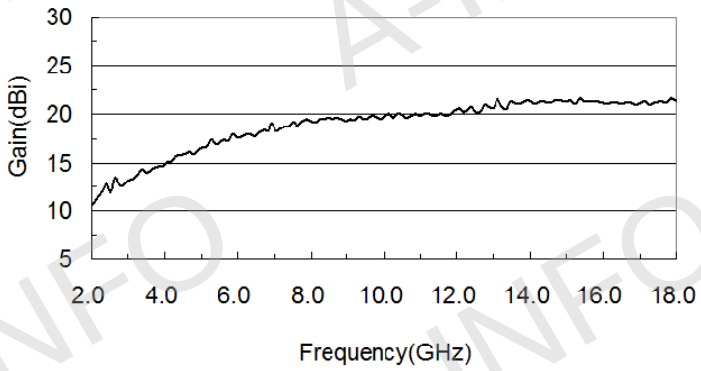
## Outline Drawing(Size: mm)



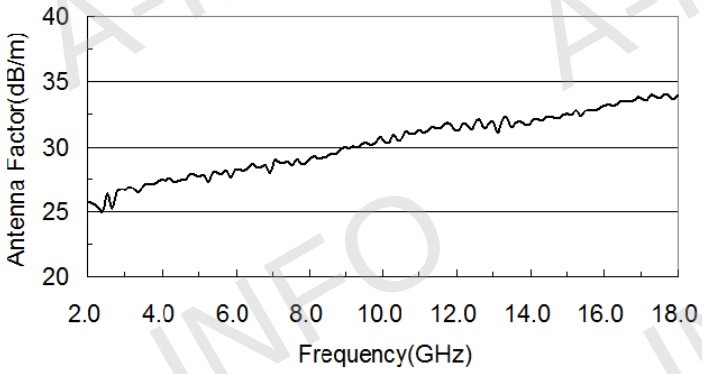



## Gain




## Antenna Factor



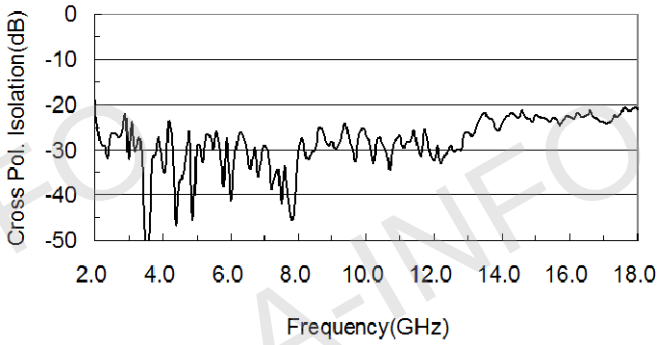



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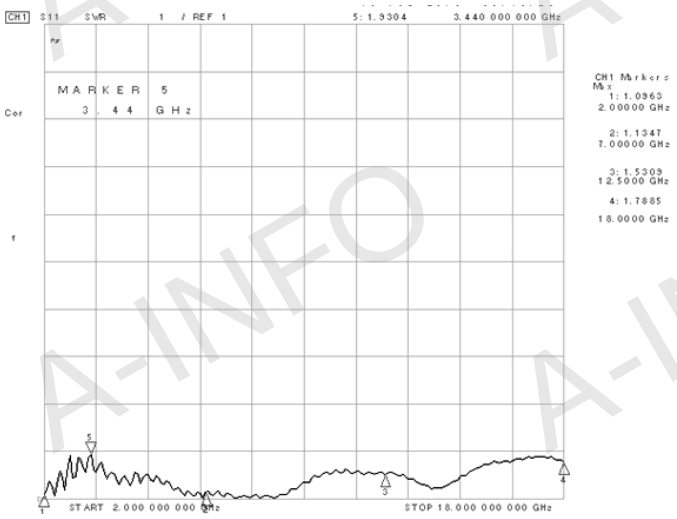
# Broadband Horn Antenna 2.0~18.0GHz, High Gain (continued)

**P/N: LB-20180H**

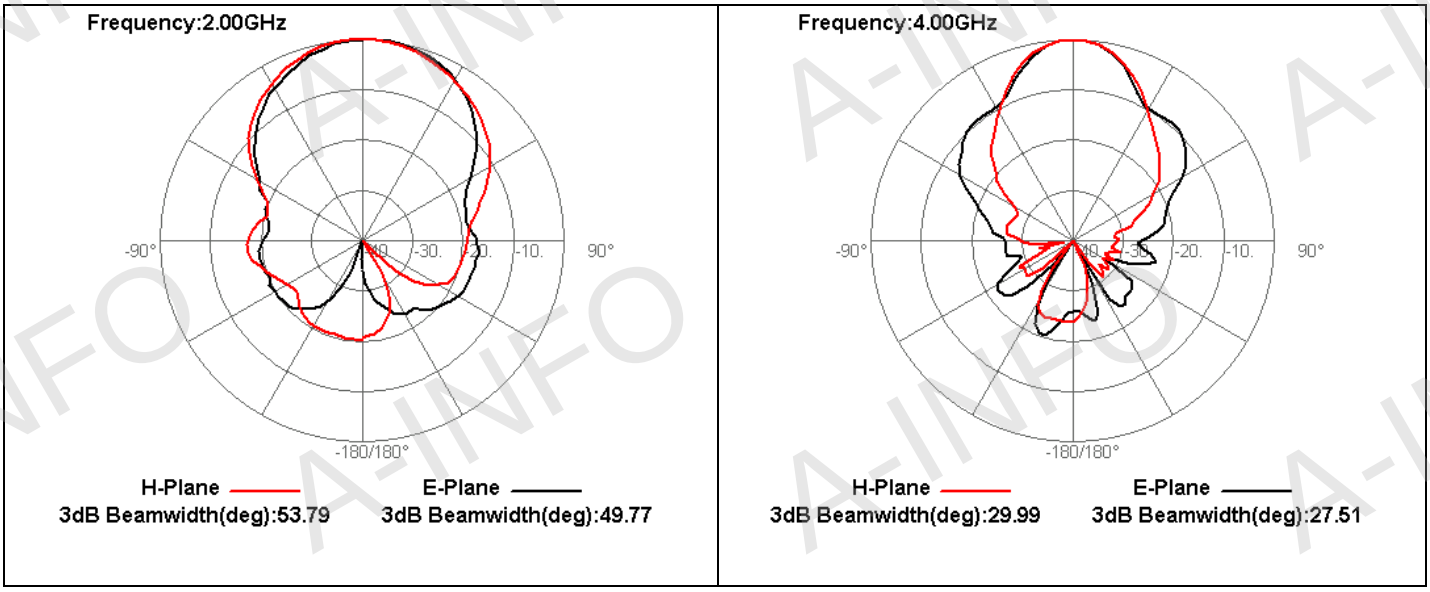
## Cross Pol. Isolation




## VSWR




## Pattern



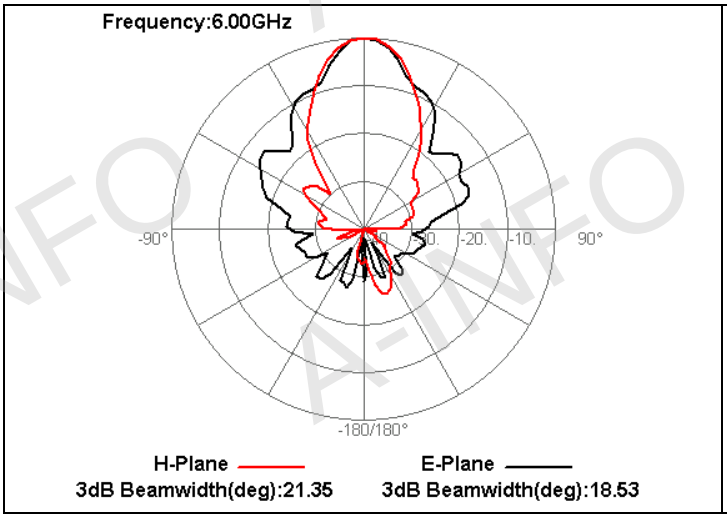


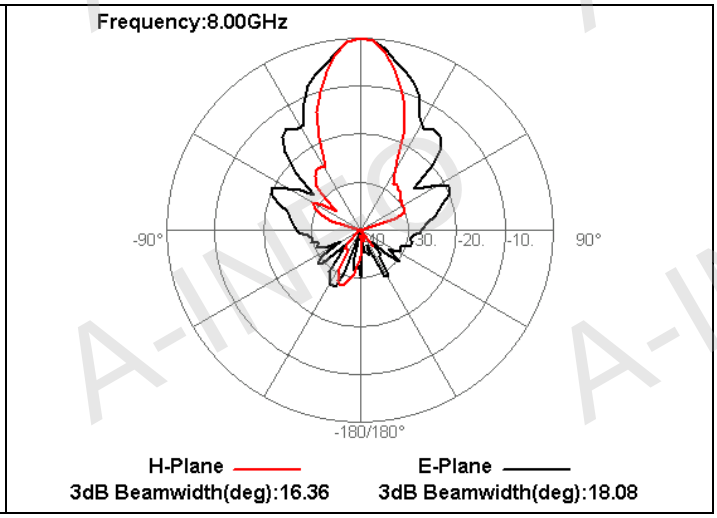

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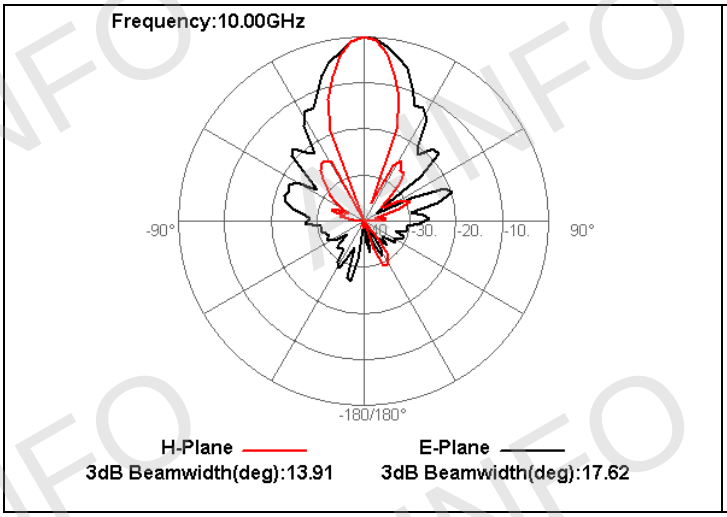
# Broadband Horn Antenna 2.0~18.0GHz, High Gain (continued)

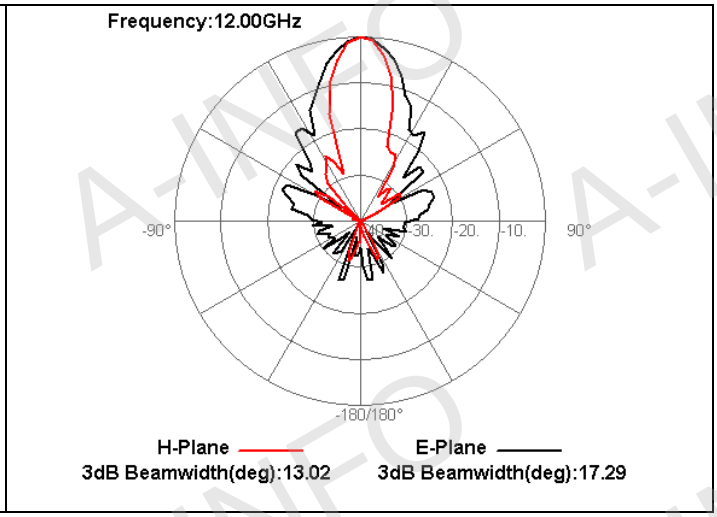
**P/N: LB-20180H**

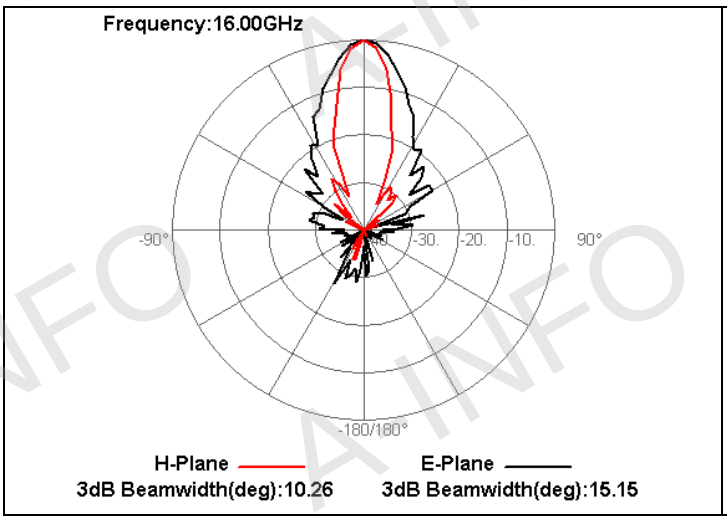
## Pattern

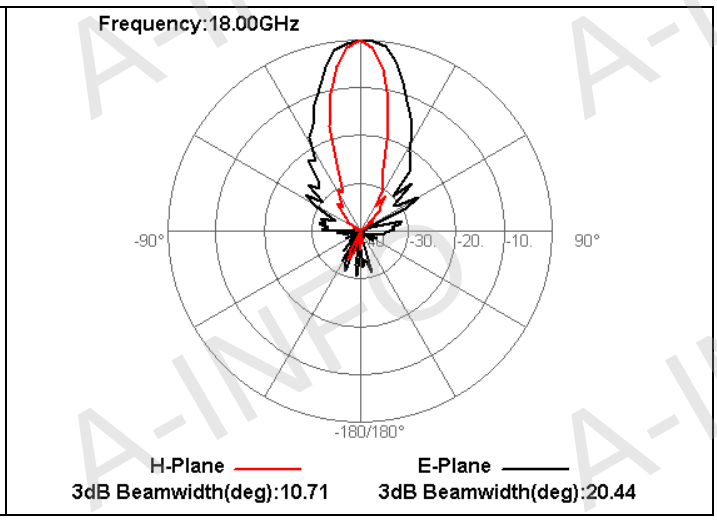





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# Broadband Horn Antenna 2.0~24.5GHz

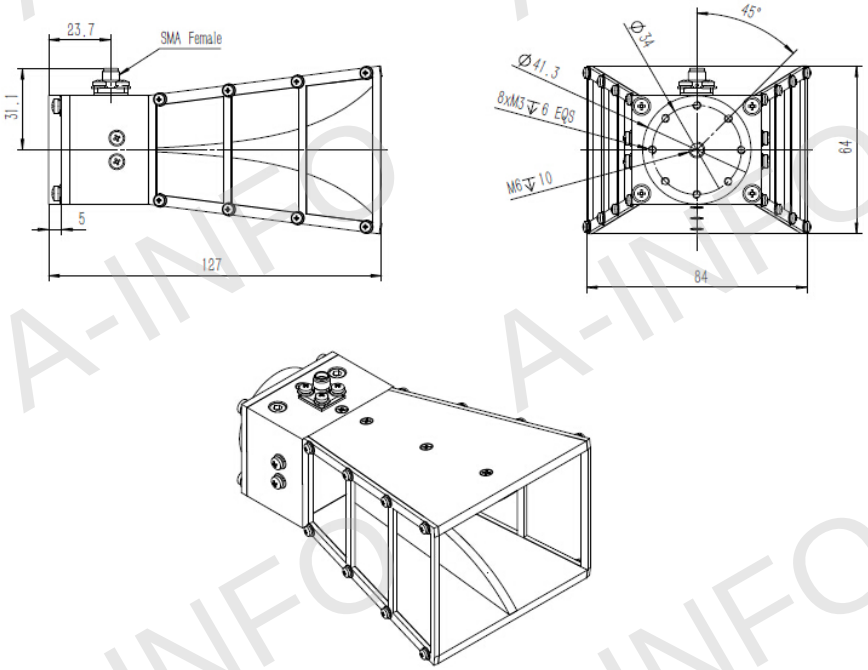
**P/N: LB-20245**



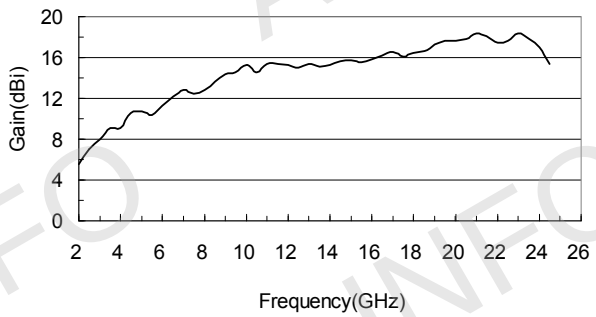
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2.0-24.5 |
| Gain(dB) | 13 Typ. |
| Polarization | Linear |
| VSWR | 1.5:1 Typ. |
| | 3.0:1 Max |
| Connector | SMA-Female |
| Power Handling(W) CW | 50 Max |
| Size(mm) | 84x64x127 |
| Net Weight(Kg) | 0.35 Around |

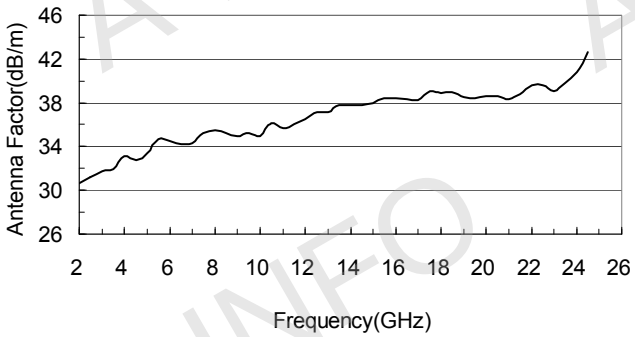
## Outline Drawing(Size: mm)




## Gain




## Antenna Factor



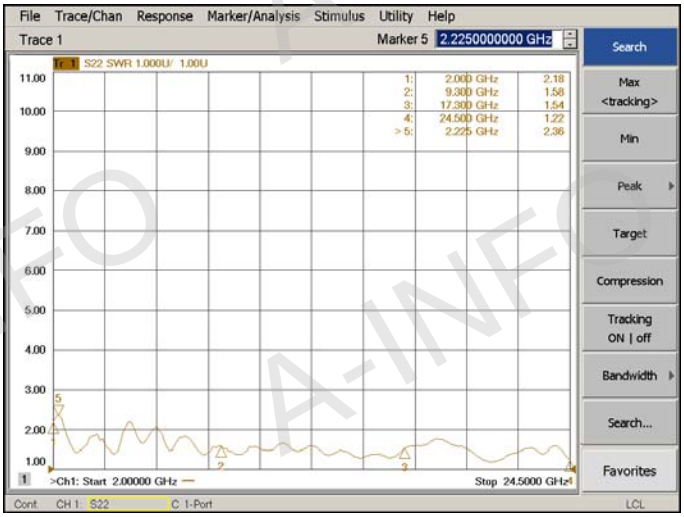



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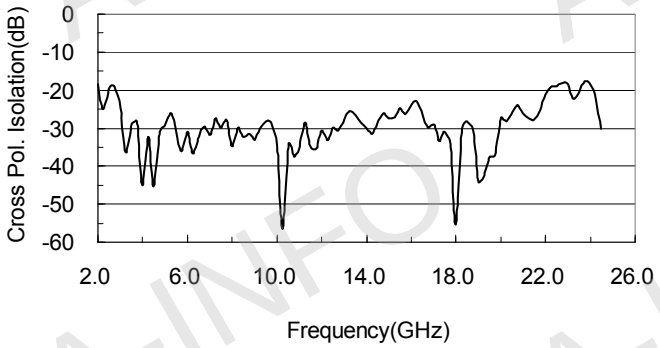
# Broadband Horn Antenna 2.0~24.5GHz(continued)

**P/N: LB-20245**

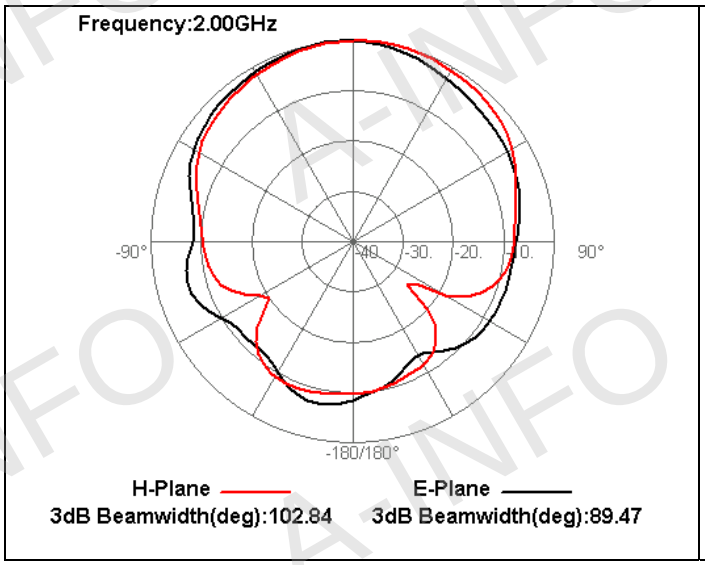
## VSWR

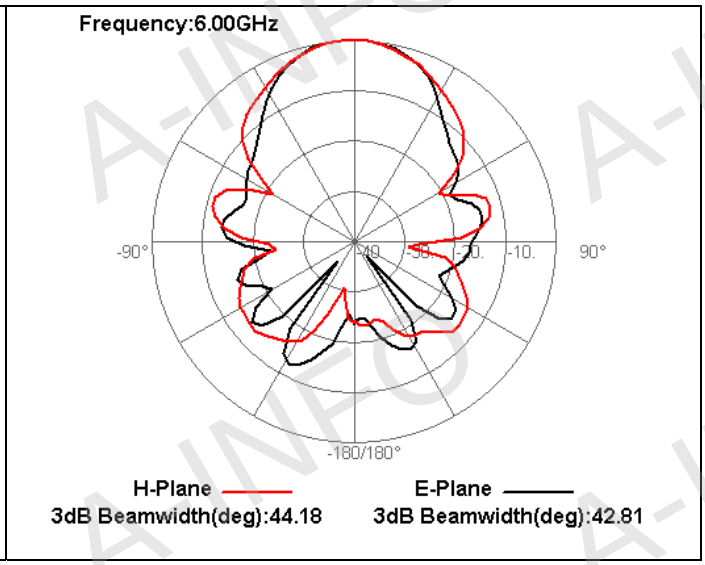



## Cross Pol. Isolation




## Pattern



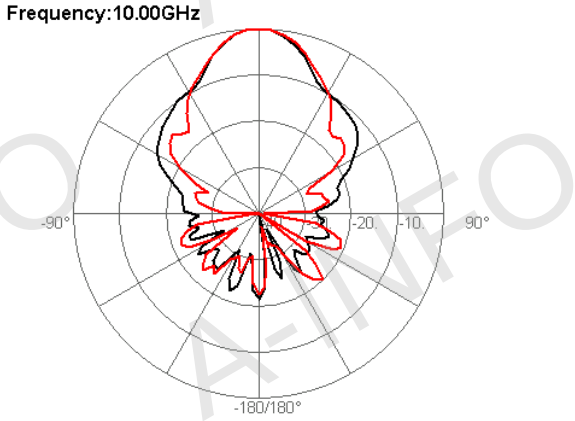



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# Broadband Horn Antenna 2.0~24.5GHz(continued)

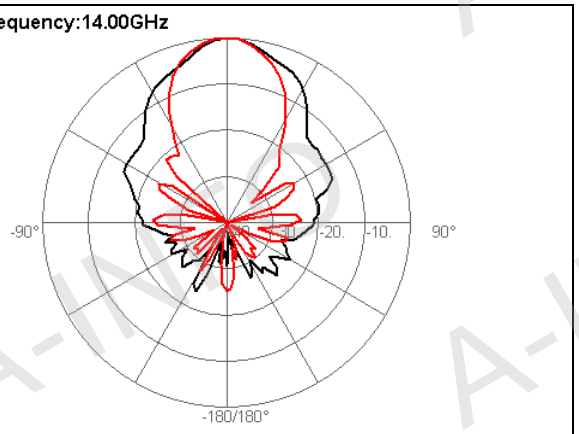
**P/N: LB-20245**

## Pattern



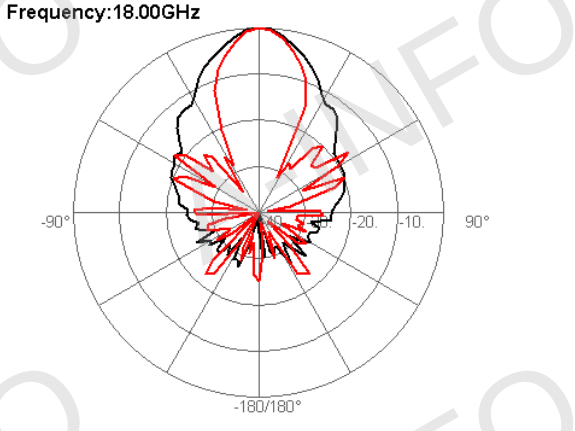

H-Plane
3dB Beamwidth(deg):27.08

E-Plane
3dB Beamwidth(deg):25.59



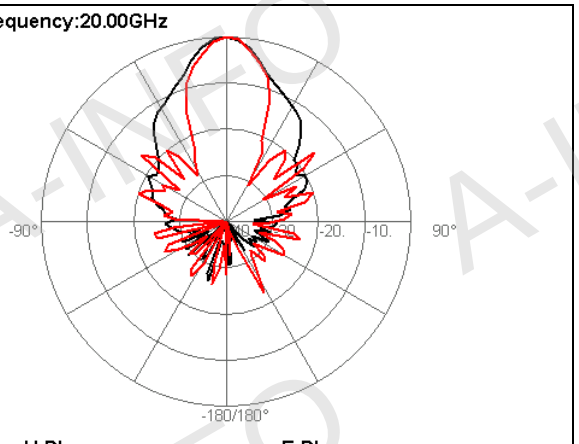

H-Plane
3dB Beamwidth(deg):26.60

E-Plane
3dB Beamwidth(deg):27.14



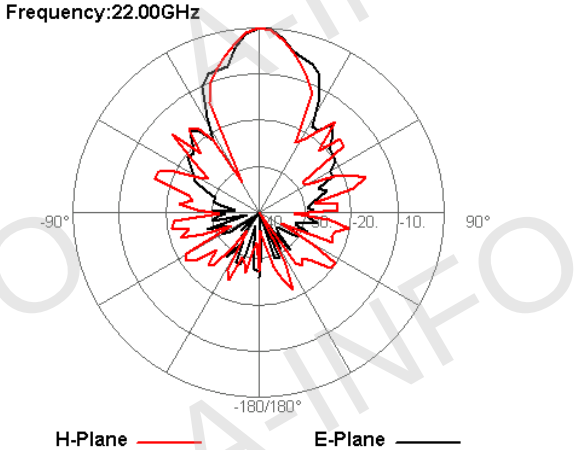

H-Plane
3dB Beamwidth(deg):17.72

E-Plane
3dB Beamwidth(deg):22.30



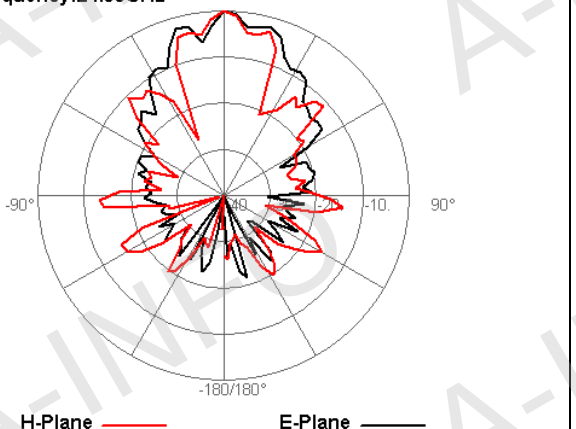

H-Plane
3dB Beamwidth(deg):15.95

E-Plane
3dB Beamwidth(deg):18.51




H-Plane
3dB Beamwidth(deg):16.75

E-Plane
3dB Beamwidth(deg):16.17




H-Plane
3dB Beamwidth(deg):11.83

E-Plane
3dB Beamwidth(deg):11.34



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# Broadband Horn Antenna 2.0~26.5GHz

**P/N: LB-20265**

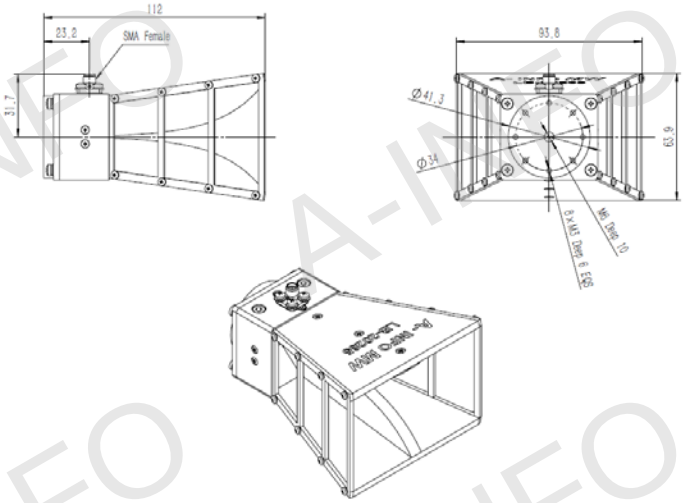


## Technical Specification

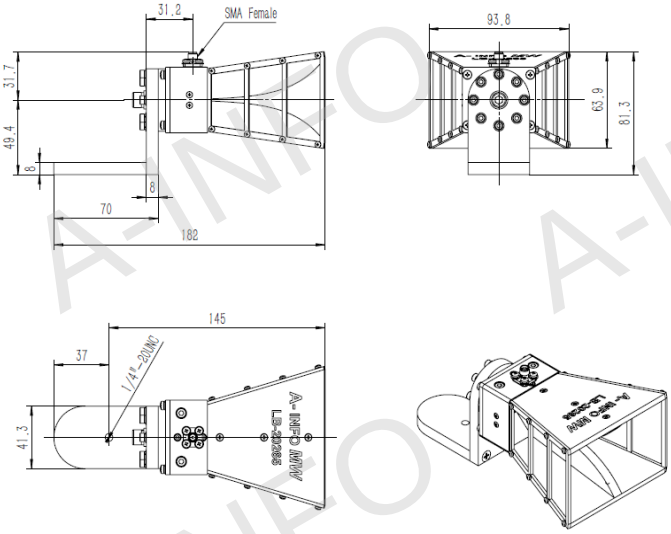
| | |
|---|---|
| Frequency Range(GHz) | 2.0–26.5 |
| Gain(dBic) | 13 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 111 - 24 |
| | H Plane: 86 - 18 |
| Cross Pol. Isolation(dB) | 35 Typ. |
| VSWR | 1.5:1 Typ. |
| | 2.5:1 Max |
| Connector | SMA-Female |
| Power Handling(W) CW | 50 Max. |
| Material | Al |
| Size(mm) | 93.8 x 63.9 x 112 |
| Net Weight(Kg) | 0.34 Around |

## Outline Drawing (Size: mm)

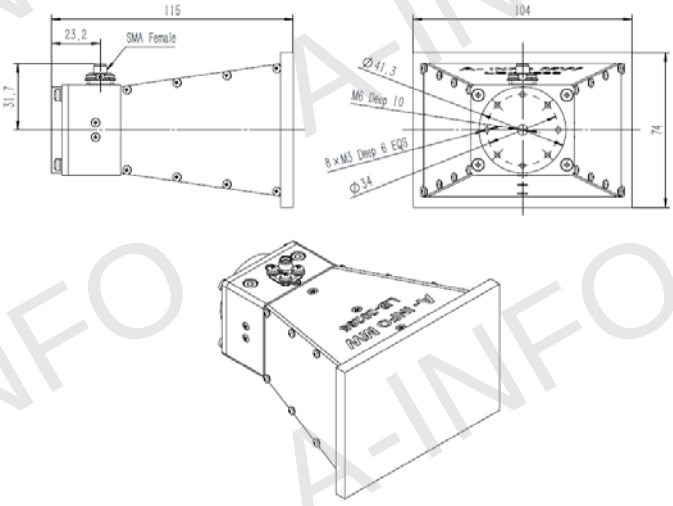
SMA Female Output



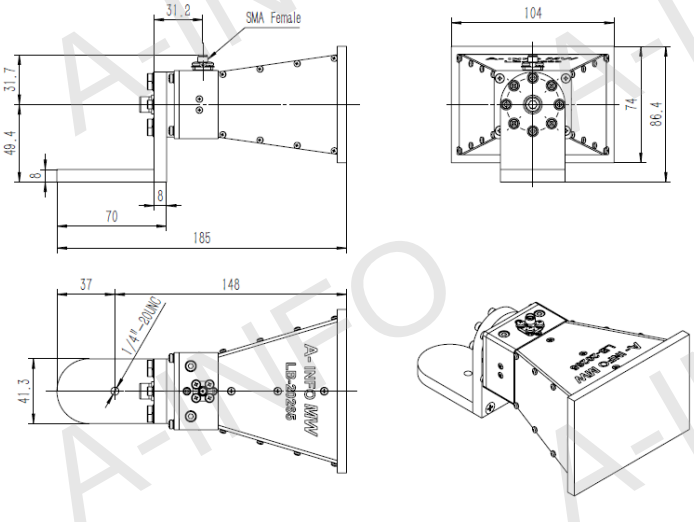

SMA Female Output w/ L type Mounting Bracket




SMA Female Output w/ Radome




SMA-F Output w/ L type Mounting Bracket & Radome



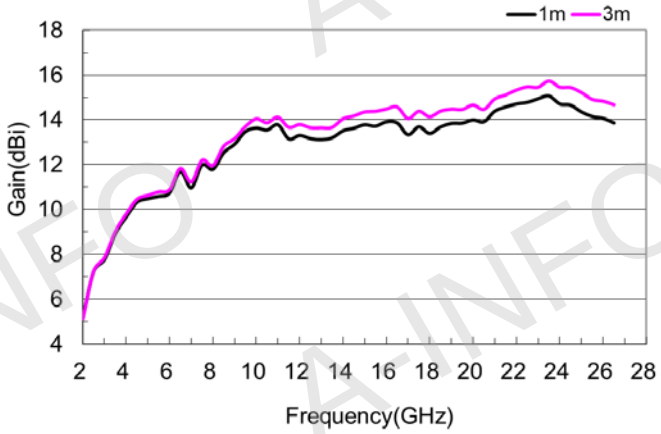



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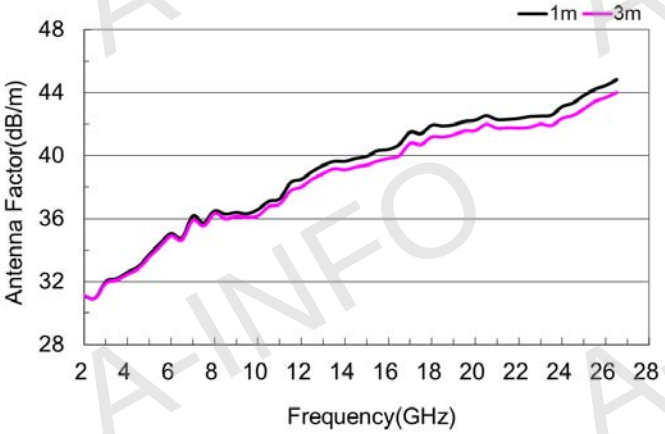
# Broadband Horn Antenna 2.0~26.5GHz(continued)

**P/N: LB-20265**

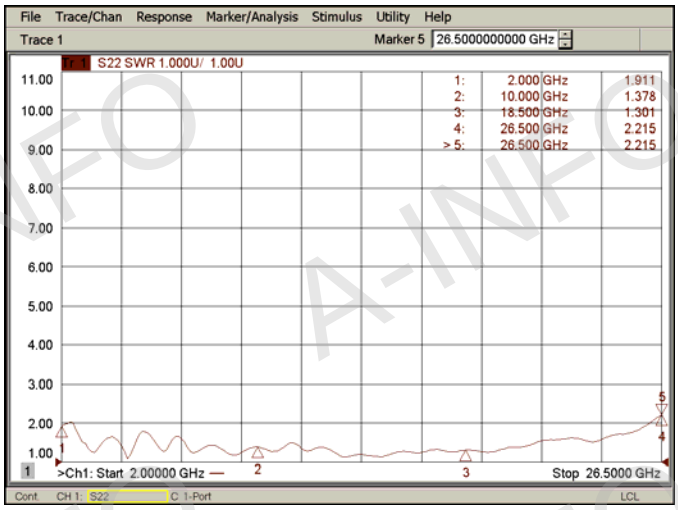
## Gain



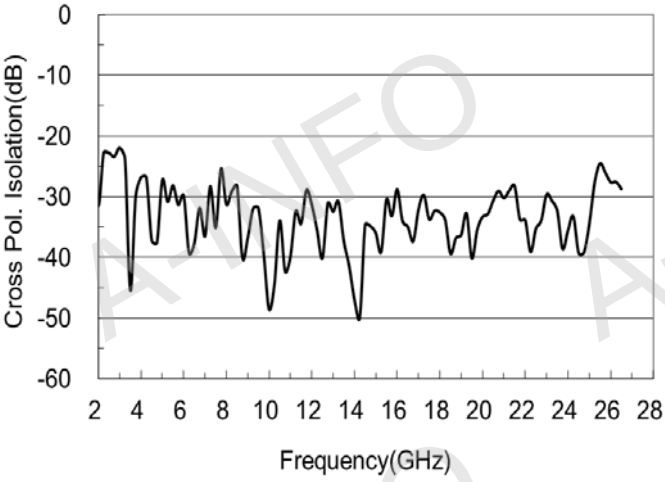

## Antenna Factor



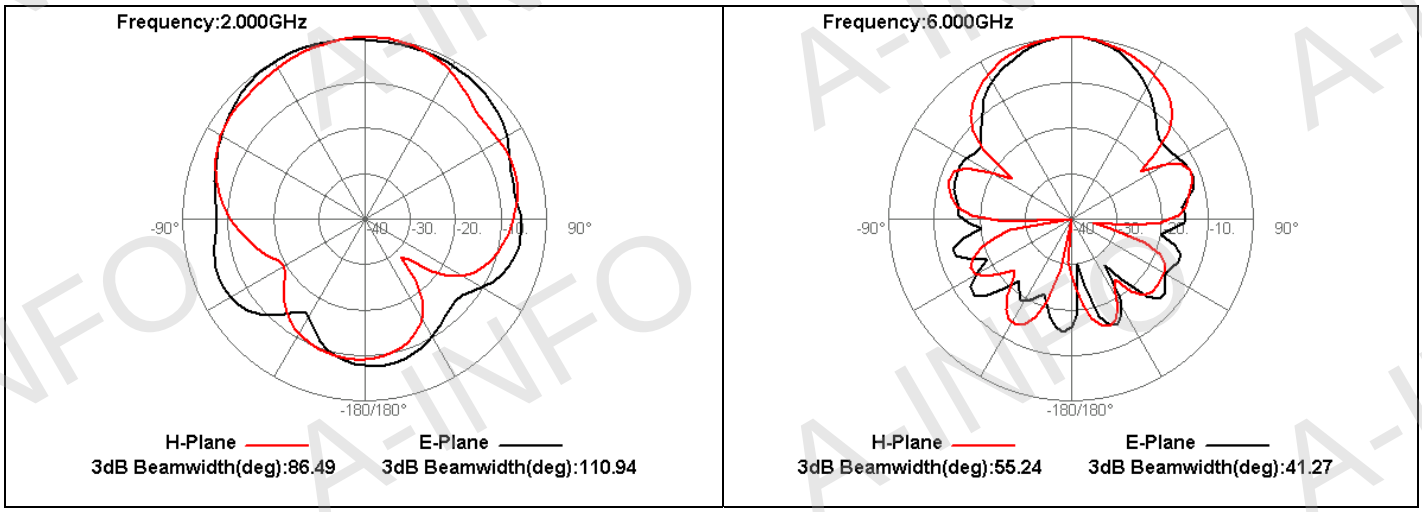

## VSWR




## Cross Pol. Isolation




## Pattern



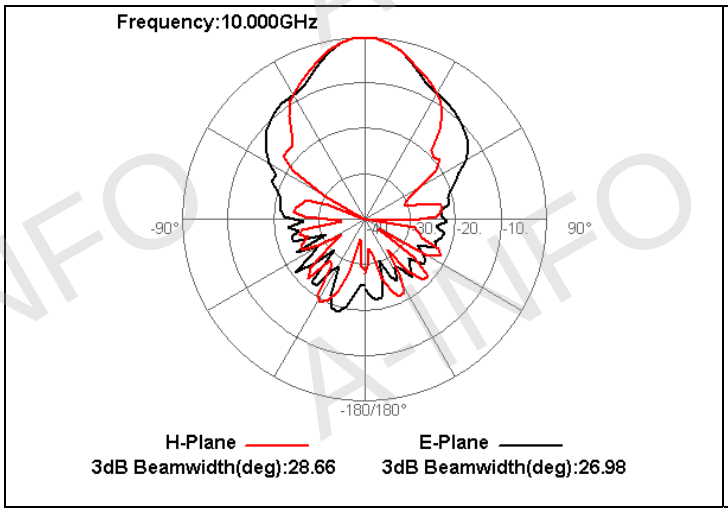


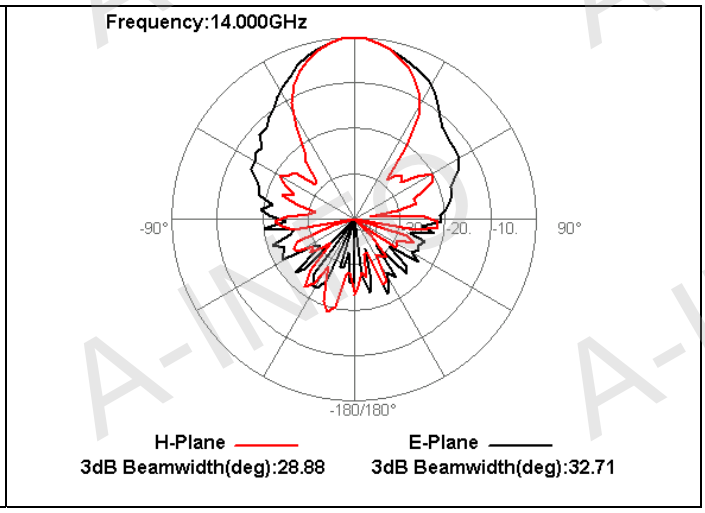

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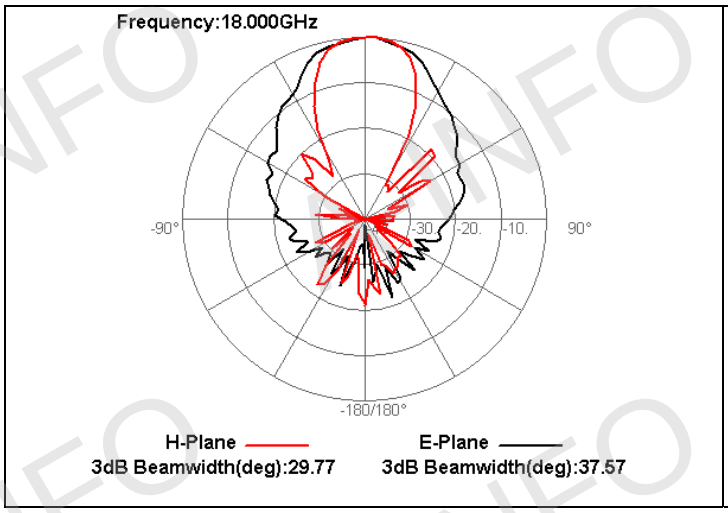
# Broadband Horn Antenna 2.0~26.5GHz(continued)

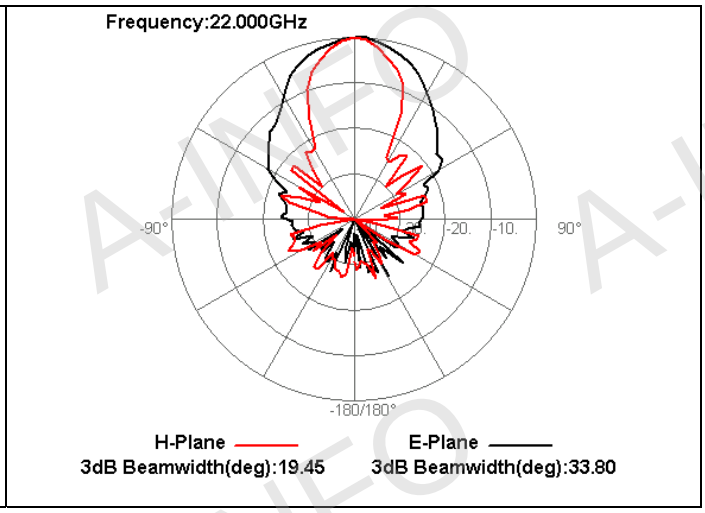
**P/N: LB-20265**

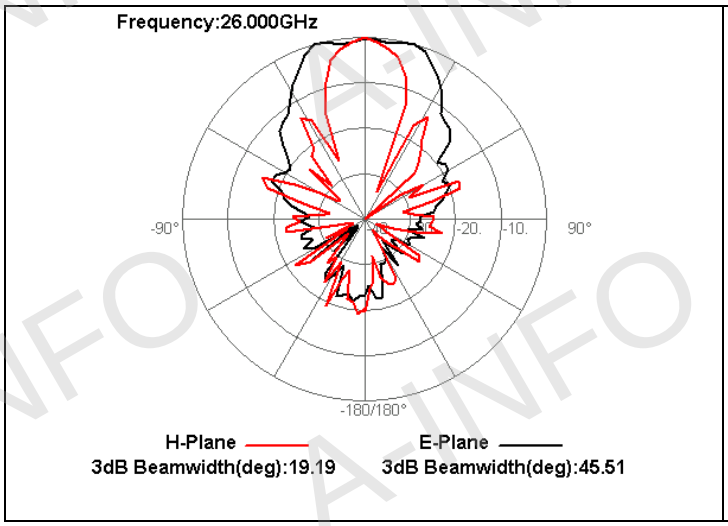
## Pattern

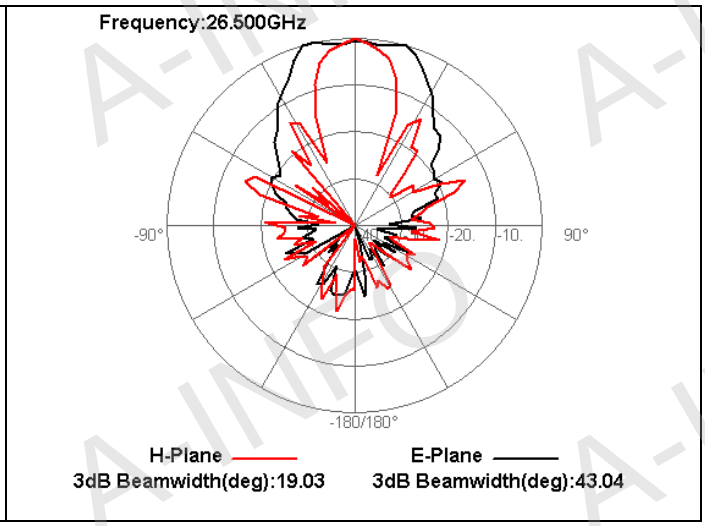





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# Broadband Horn Antenna 4.0~40.0GHz

**P/N: LB-40400**

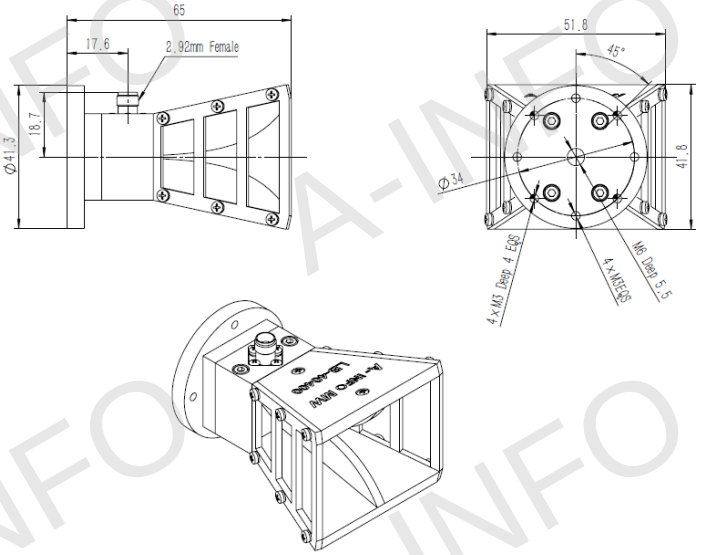


## Technical Specification

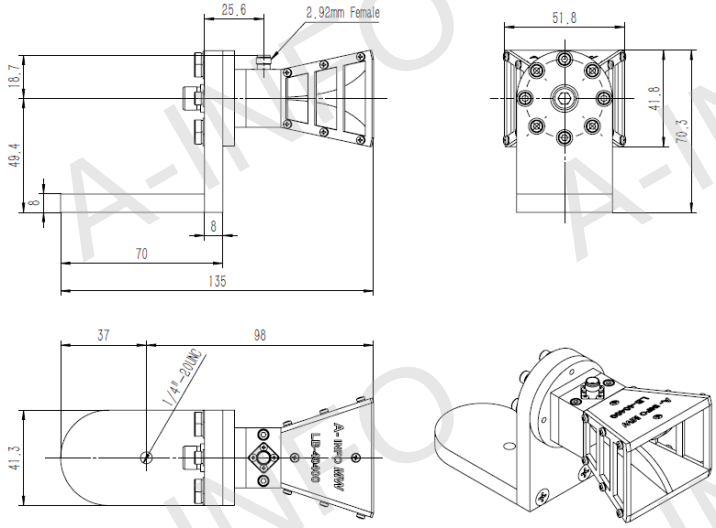
| | |
|---|---|
| Frequency Range(GHz) | 4.0–40.0 |
| Gain(dB) | 13 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | E Plane: 88 - 22 |
| | H Plane: 87 - 16 |
| Cross Pol. Isolation(dB) | 35 Typ. |
| VSWR | 1.5:1 Typ. |
| | 2.0:1 Max. |
| Connector | 2.92mm-Female |
| | or 2.4mm- Female |
| Power Handling(W) CW | 2.92mm-Female: 20 Max. |
| | 2.4mm-Female: 10 Max. |
| Material | Al |
| Size(mm) | 65 x 51.8 x 41.8 |
| Net Weight(Kg) | 0.1 Around |

**Outline Drawing (Size: mm)** For 2.4mm-Female output outline drawing, please contact A-INFO.

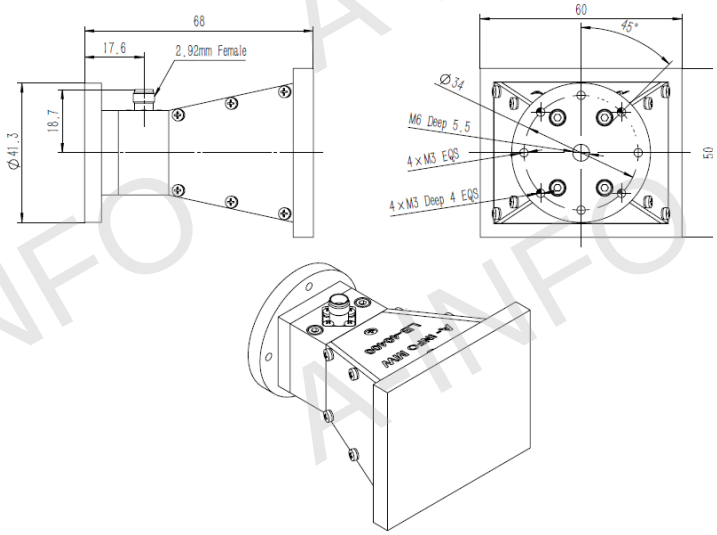
2.92mm Female Output



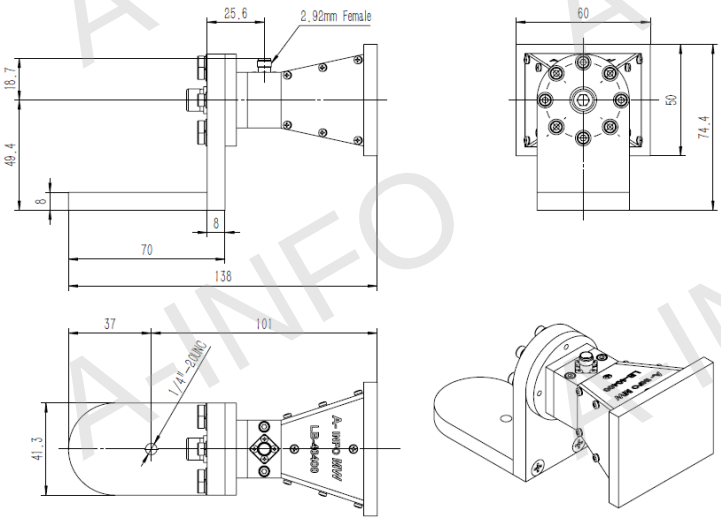

2.92mm Female Output w/ L type Mounting Bracket




2.92mm Female Output w/ Radome




2.92mm-F Output w/ L type Mounting Bracket & Radome



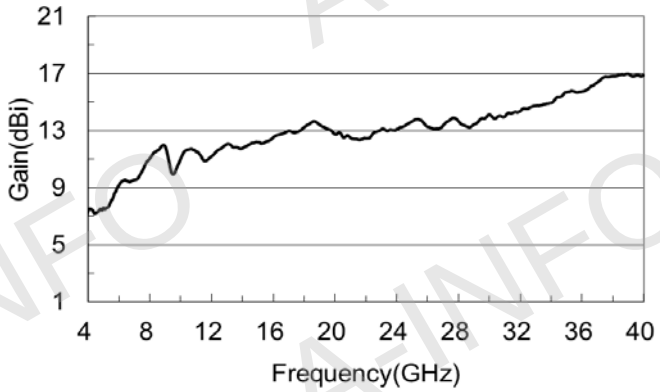



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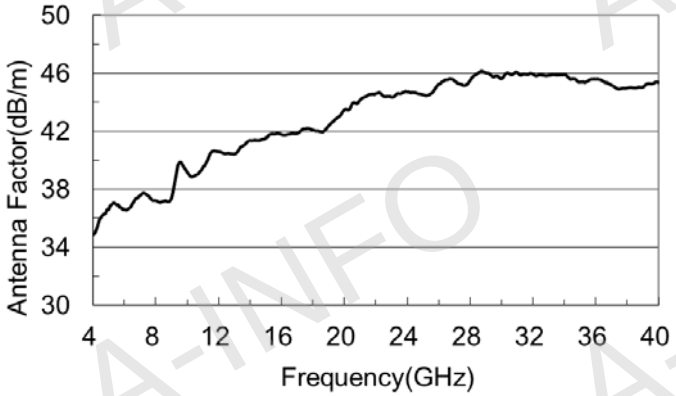
# Broadband Horn Antenna 4.0~40.0GHz(continued)

**P/N: LB-40400**

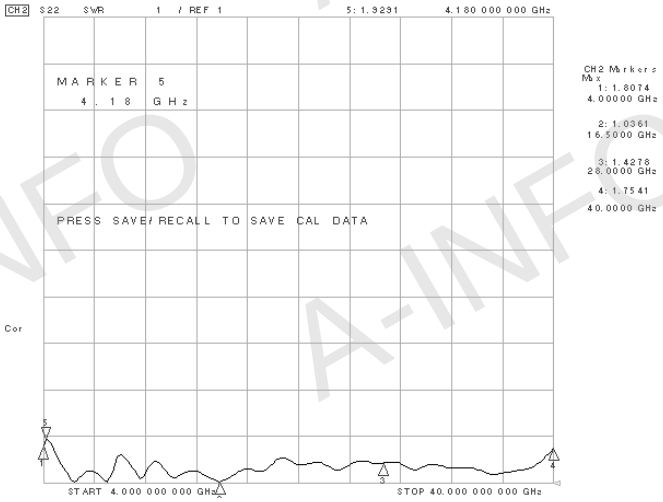
## Gain



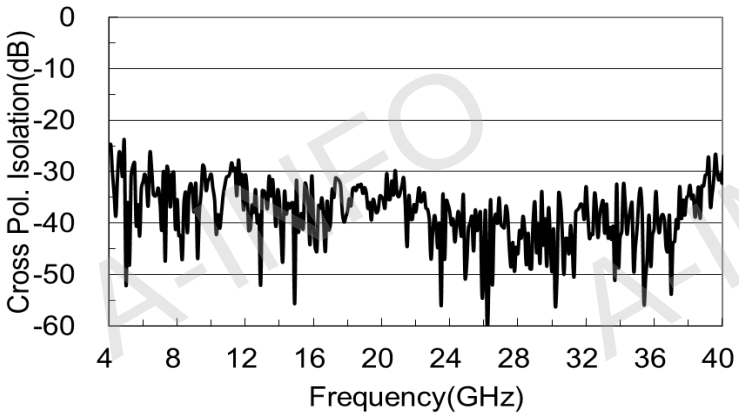

## Antenna Factor



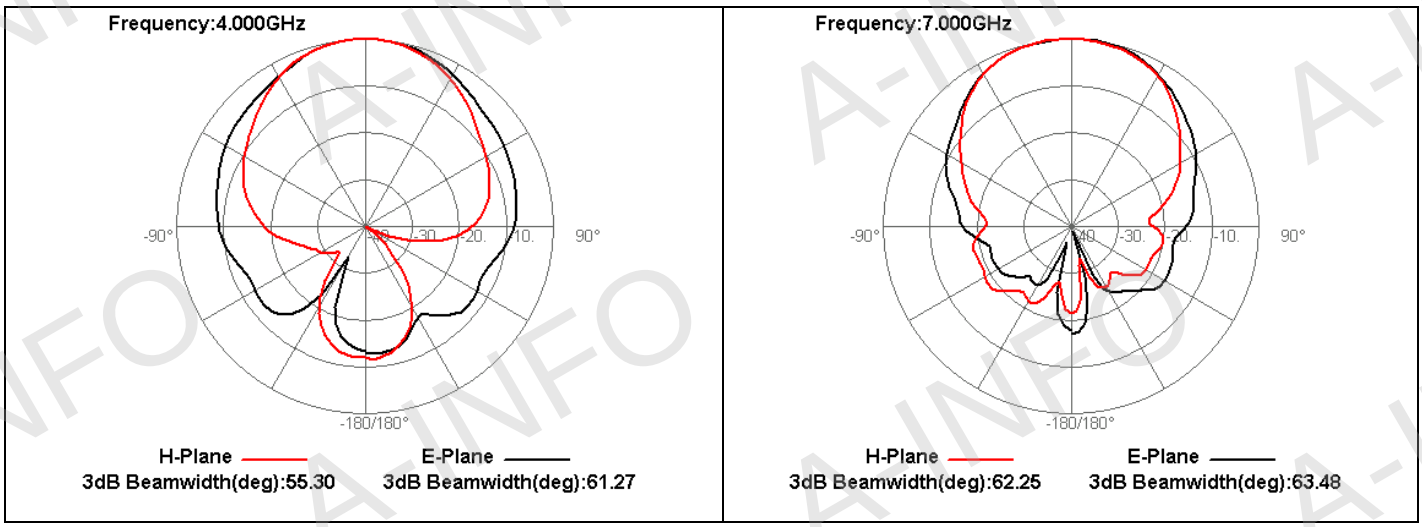

## VSWR




## Cross Pol. Isolation




## Pattern



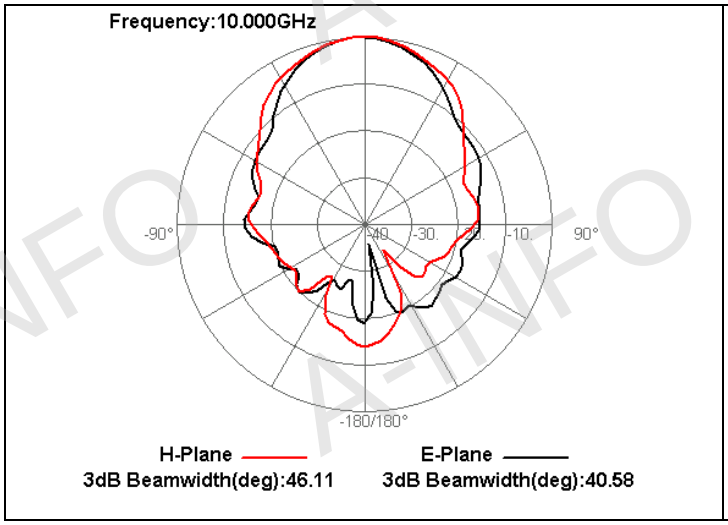


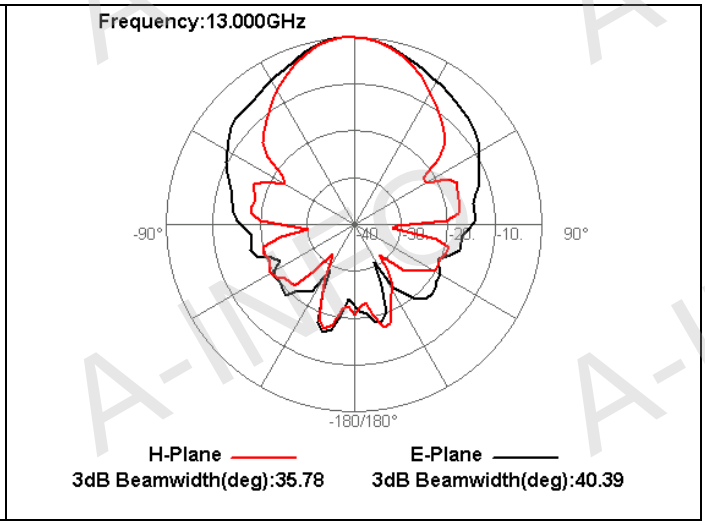

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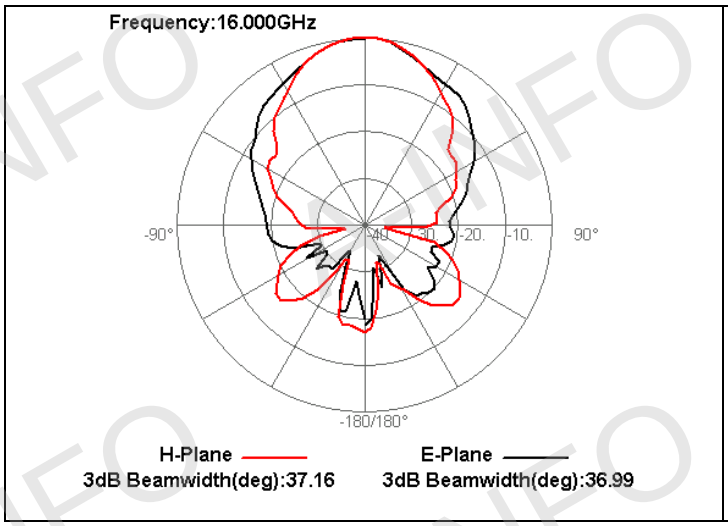
# Broadband Horn Antenna 4.0~40.0GHz(continued)

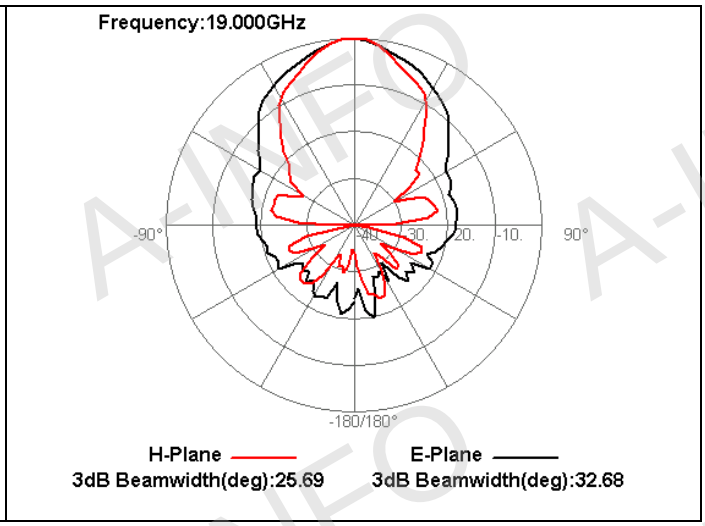
**P/N: LB-40400**

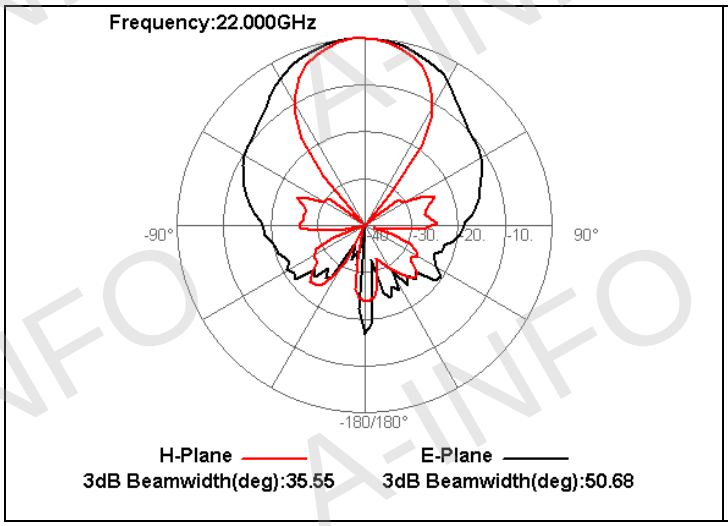
## Pattern

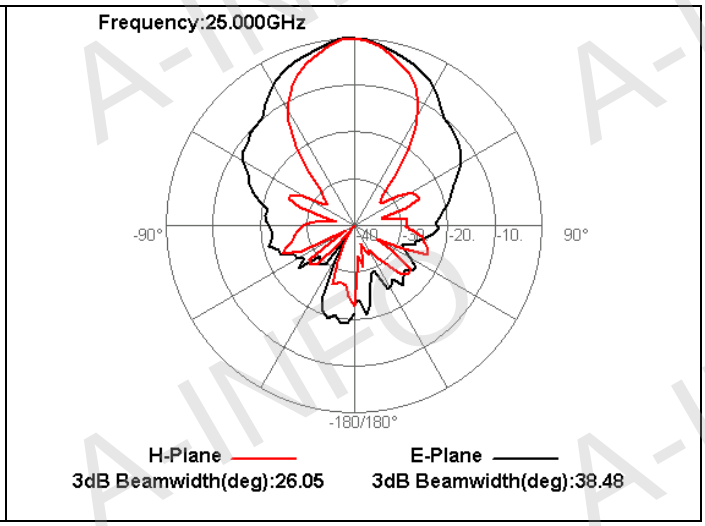


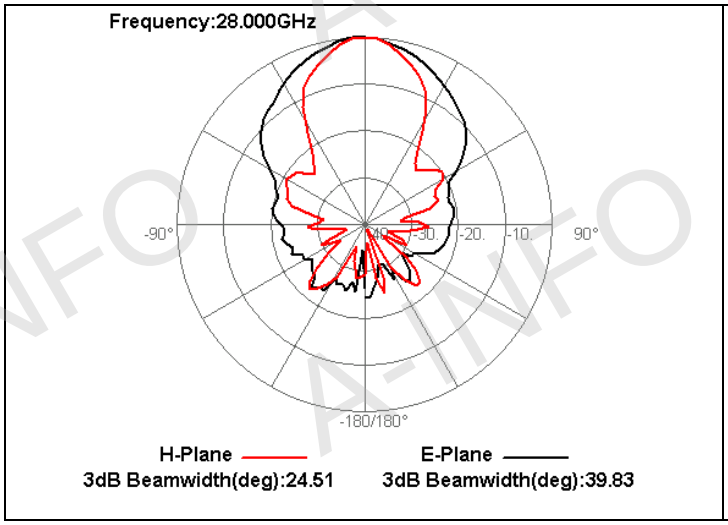


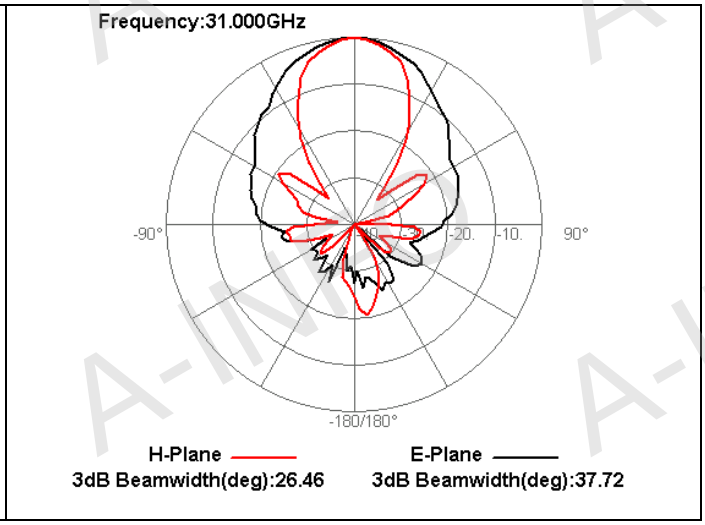

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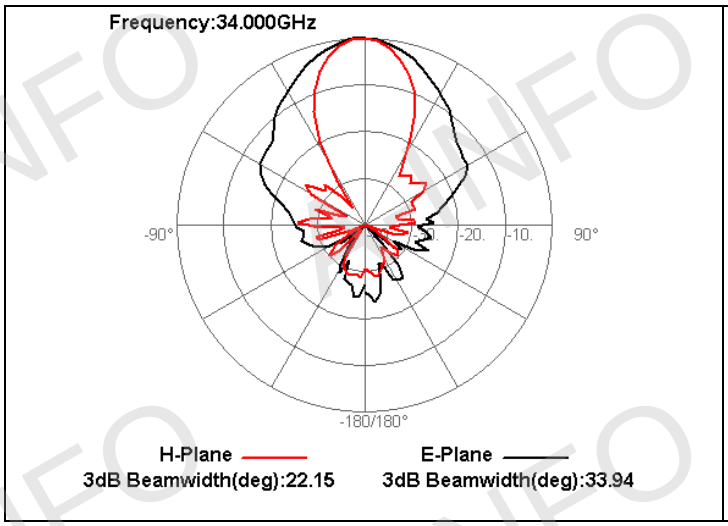
# Broadband Horn Antenna 4.0~40.0GHz(continued)

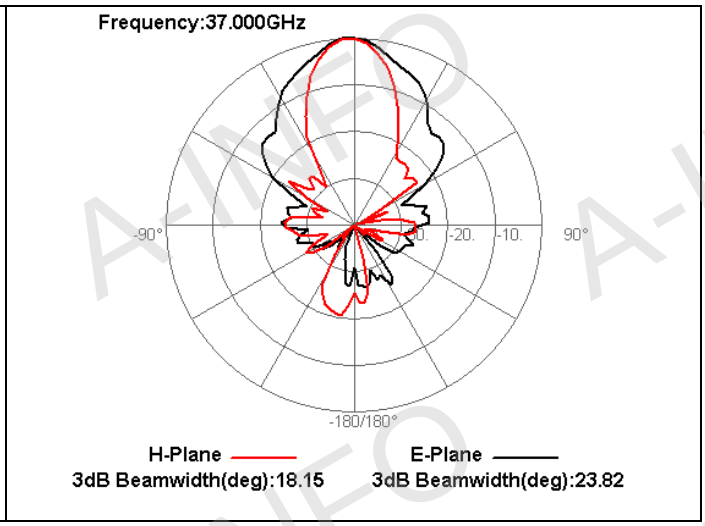
**P/N: LB-40400**

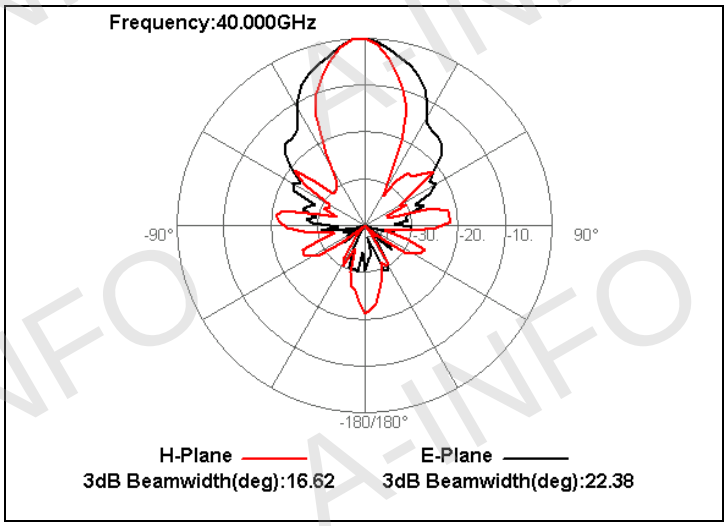
## Pattern






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# Broadband Horn Antenna 6.0~67.0GHz

**P/N: LB-60670**

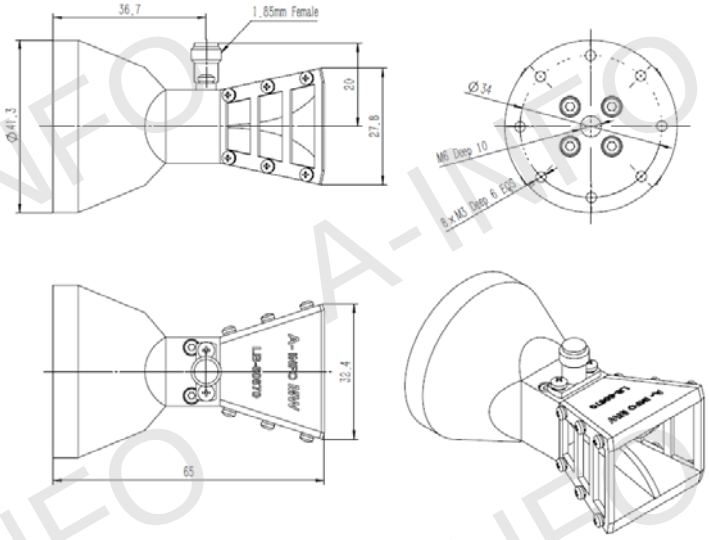


## Technical Specification

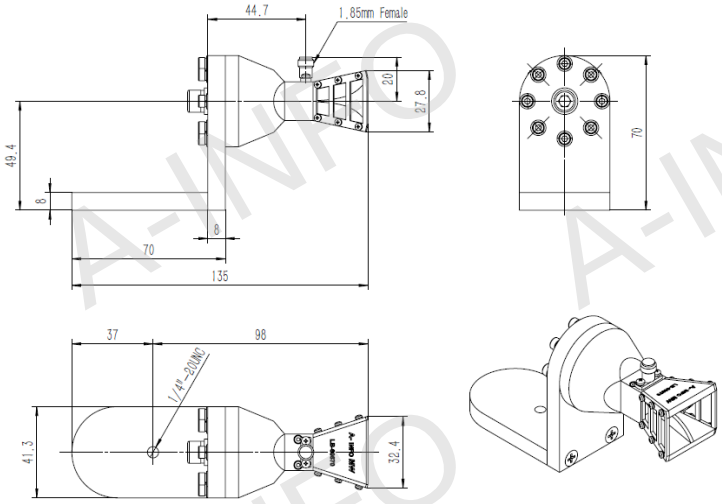
| | | |
|---|---|---|
| Frequency Range(GHz) | 6.0–67.0 | |
| Gain(dB) | 13 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 105 - 10 |
| | H Plane: | 86 - 9 |
| Cross Pol. Isolation(dB) | 30 Typ. | |
| VSWR | 1.5:1 Typ. | |
| | 2.5:1 Max | |
| Connector | 1.85mm-Female | |
| Power Handling(W) CW | 5 Max. | |
| Material | Al | |
| Size(mm) | 65 x 32.4 x 27.8 | |
| Net Weight(Kg) | 0.1 Around | |

## Outline Drawing (Size: mm)

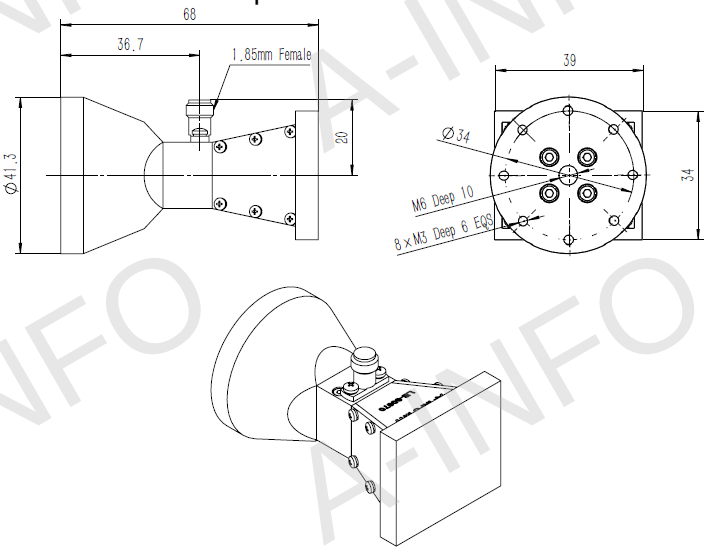
1.85mm Female Output



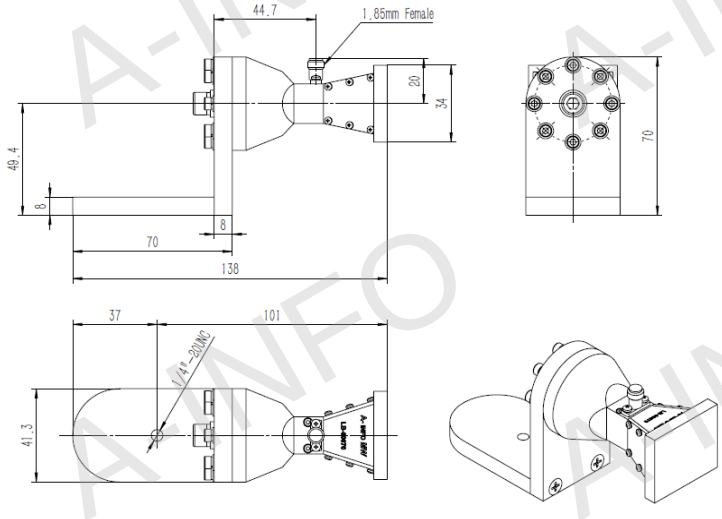

1.85mm Female Output w/ L type Mounting Bracket




1.85mm Female Output with Radome




1.85mm-F Output w/ L type Mounting Bracket& Radome



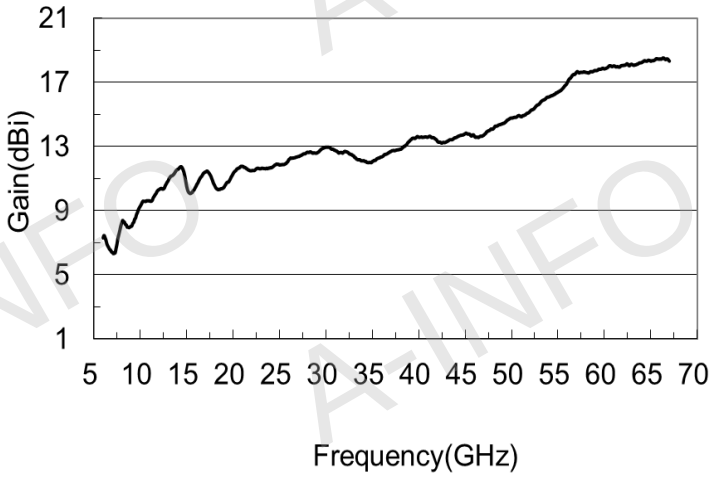



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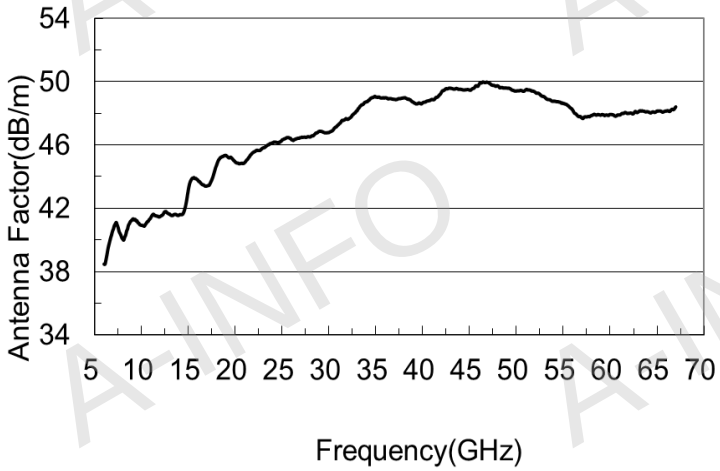
# Broadband Horn Antenna 6.0~67.0GHz (continued)

**P/N: LB-60670**

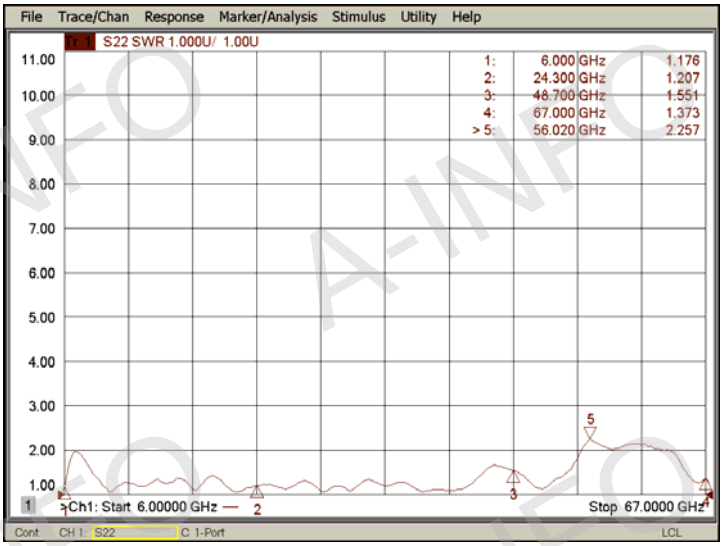
## Gain



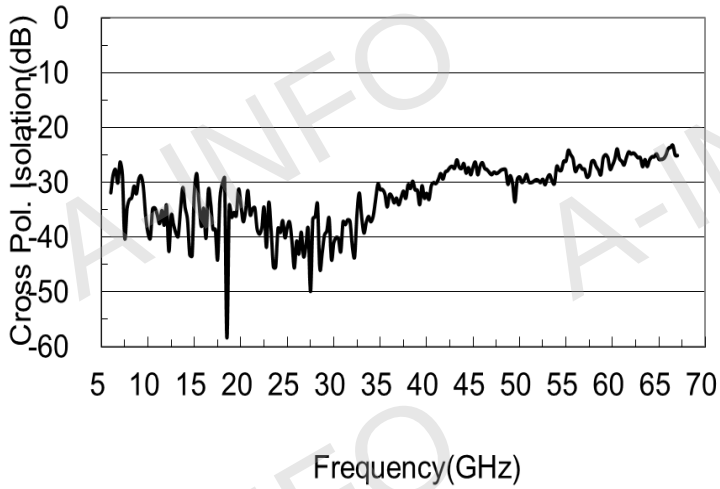

## Antenna Factor



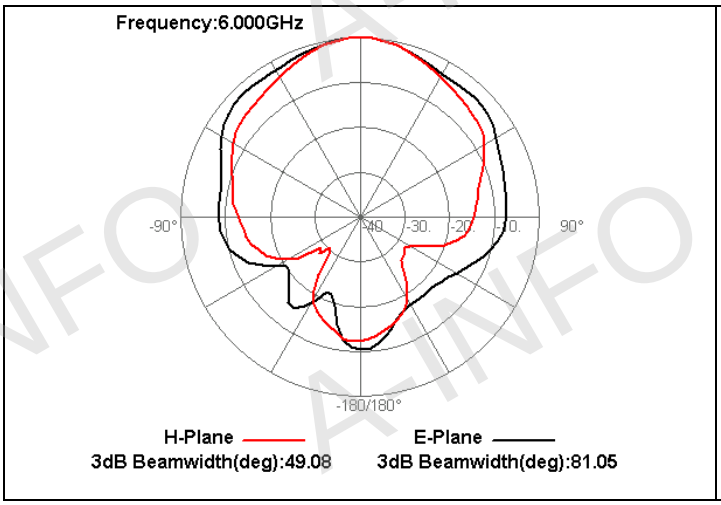

## VSWR

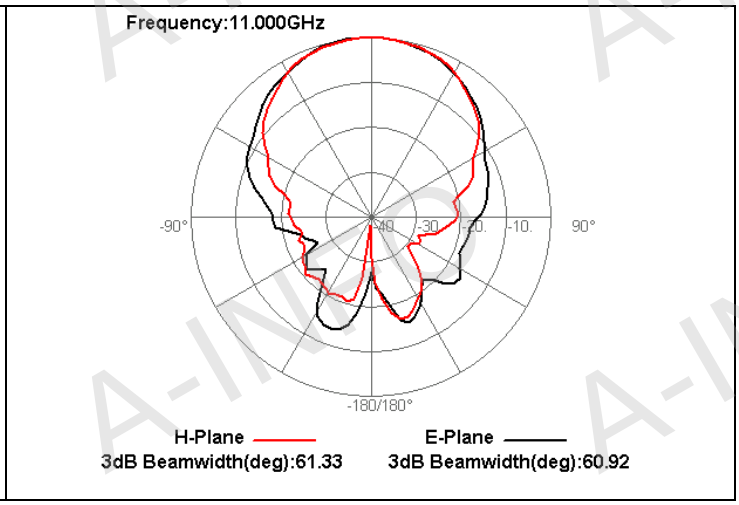



## Cross Polarization Isolation




## Pattern



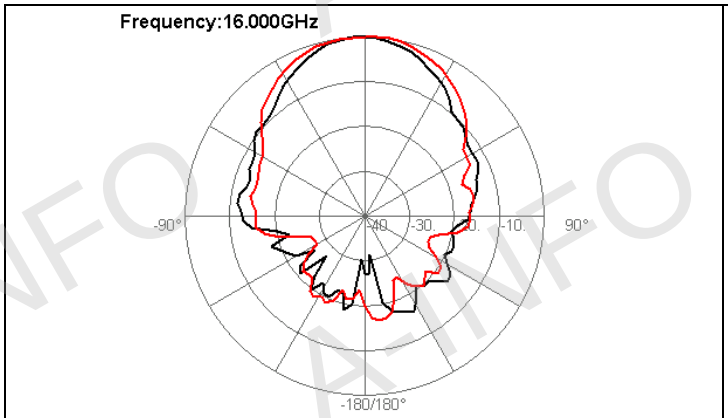



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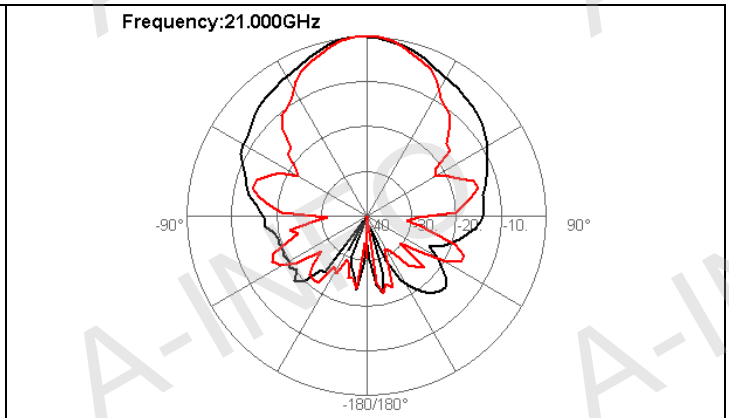
# Broadband Horn Antenna 6.0~67.0GHz(continued)

## P/N: LB-60670

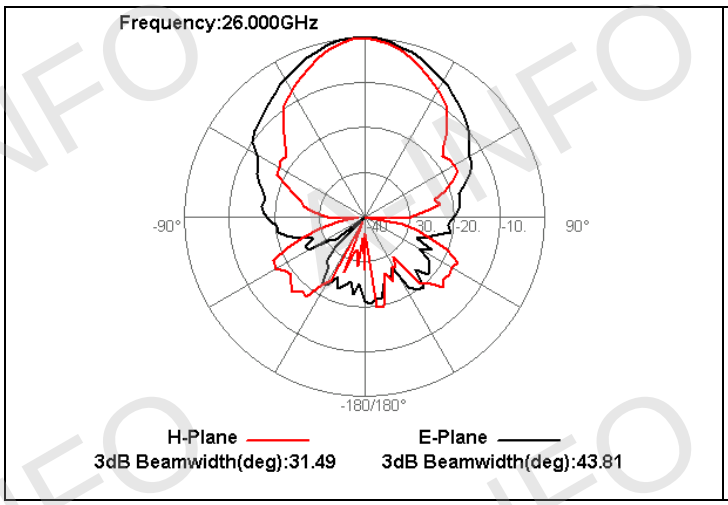
### Pattern



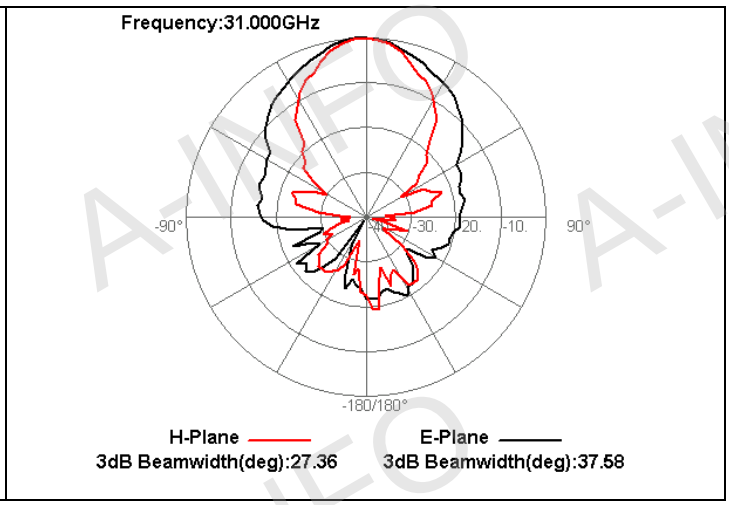

3dB Beamwidth(deg):55.78 3dB Beamwidth(deg):40.48



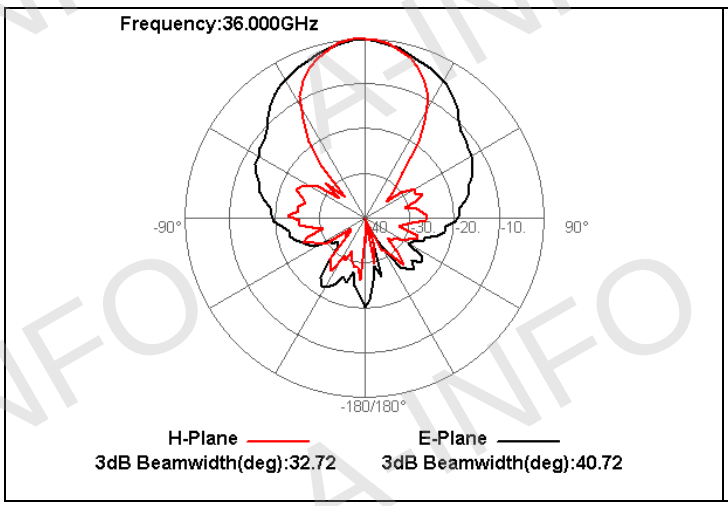

3dB Beamwidth(deg):36.05 3dB Beamwidth(deg):44.27



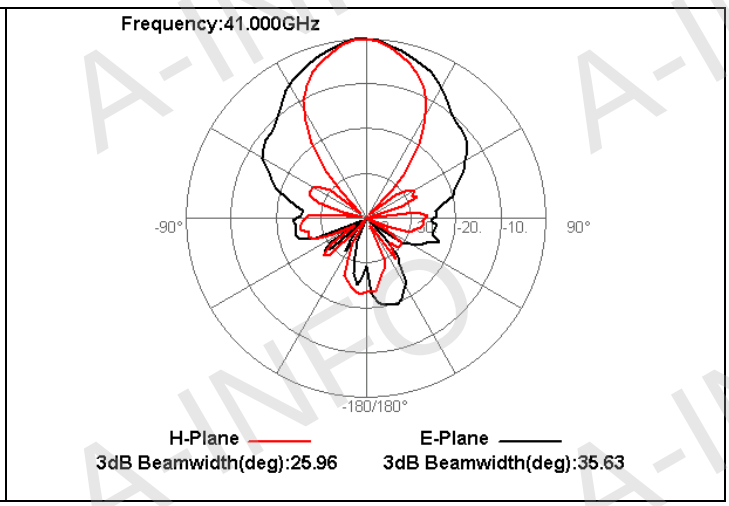

3dB Beamwidth(deg):31.49 3dB Beamwidth(deg):43.81




3dB Beamwidth(deg):27.36 3dB Beamwidth(deg):37.58




3dB Beamwidth(deg):32.72 3dB Beamwidth(deg):40.72



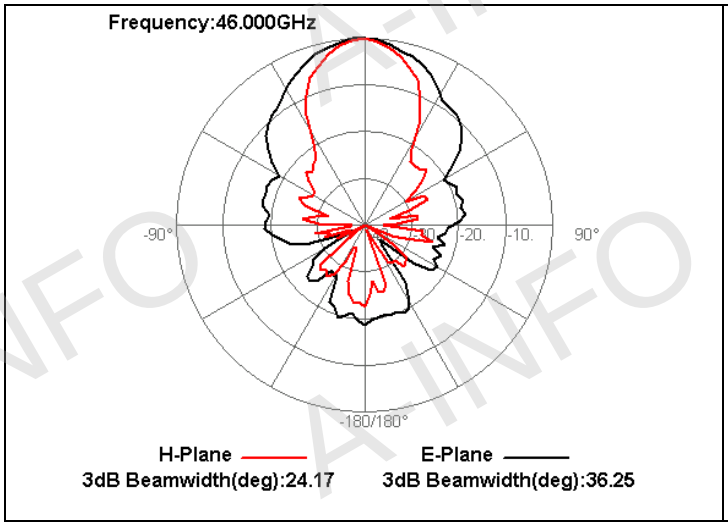

3dB Beamwidth(deg):25.96 3dB Beamwidth(deg):35.63

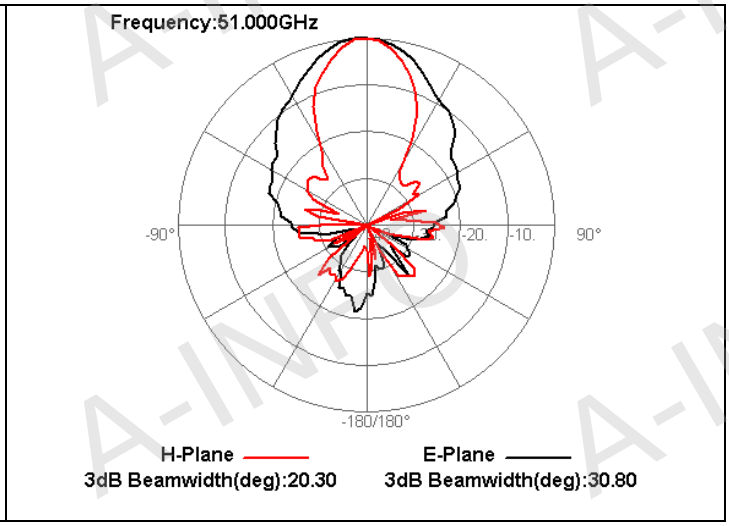


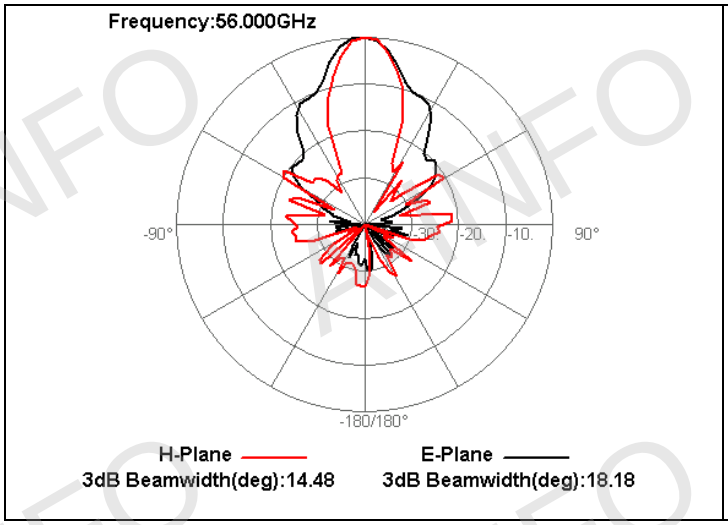
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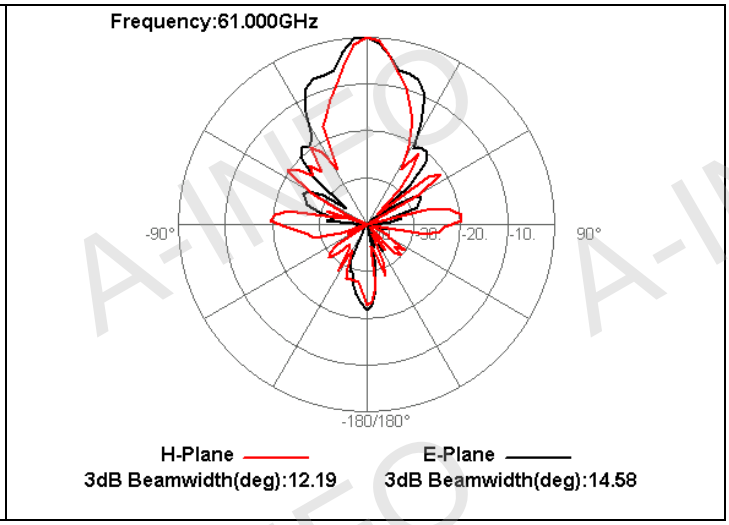
# Broadband Horn Antenna 6.0~67.0GHz(continued)

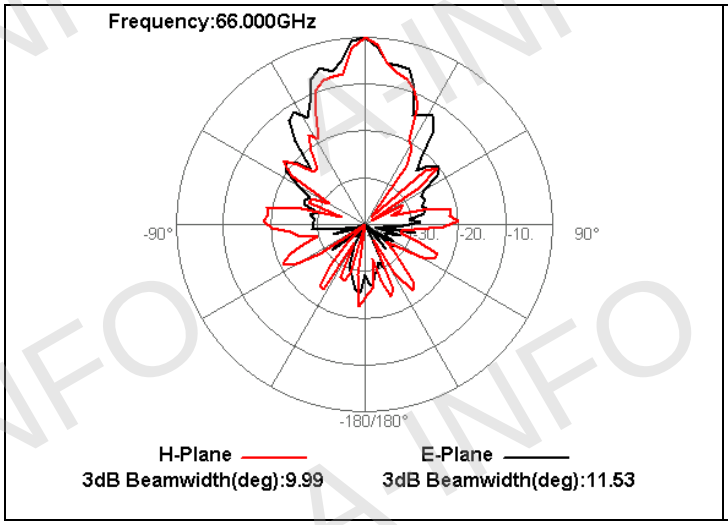
**P/N: LB-60670**

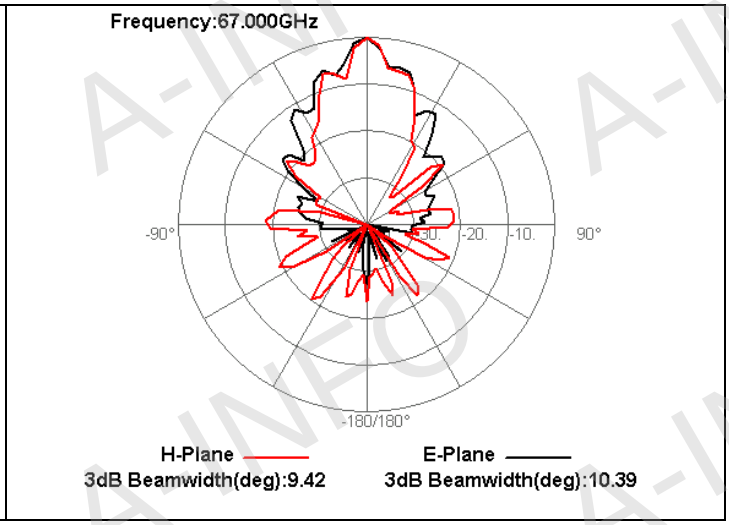





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# Broadband Horn Antenna 18.0~40.0GHz

**P/N: LB-180400**

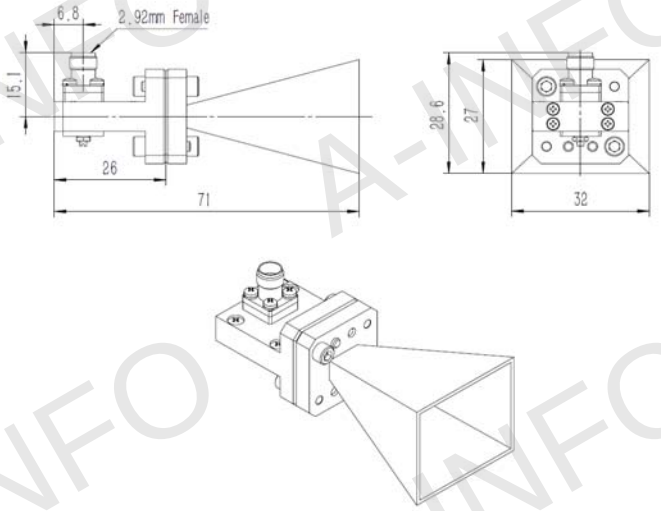


## Technical Specification

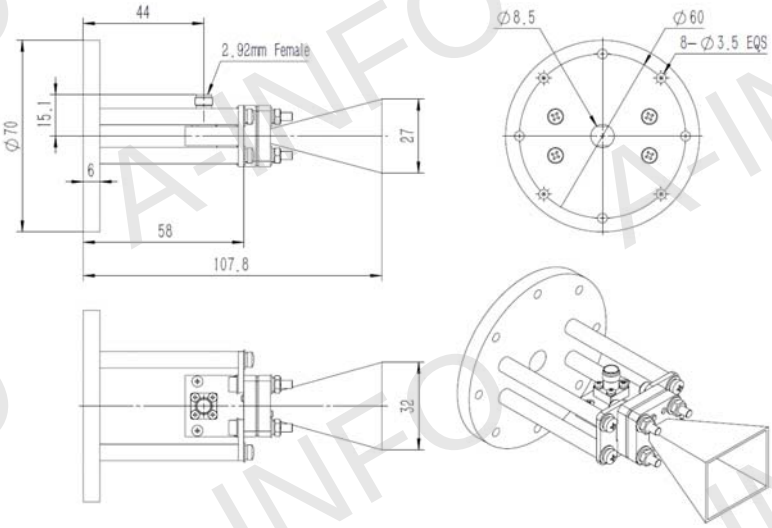
| | | |
|---|---|---|
| Frequency Range(GHz) | 18-40 | |
| Gain(dBic) | 15 Typ. | |
| Polarization | Linear | |
| 3dB Beamwidth(deg) | E Plane: | 41 - 21 |
| | H Plane: | 42 - 17 |
| Cross Pol. Isolation(dB) | 30 Typ. | |
| VSWR | 1.5:1 Typ. | |
| | 2.0:1 Max | |
| Connector | 2.92mm(K)-Female Or 2.4mm-Female | |
| Power Handling(W) | 2.92mm(K)-Female: | 20 Max. CW |
| | 2.4mm-Female: | 10 Max. CW |
| Material | Cu | |
| Size(mm) | 32x28.6x71 | |
| Net Weight(Kg) | 0.08 Around | |

## Outline Drawing (Size: mm) (For 2.4mm-Female output outline drawing, please contact A-INFO.)

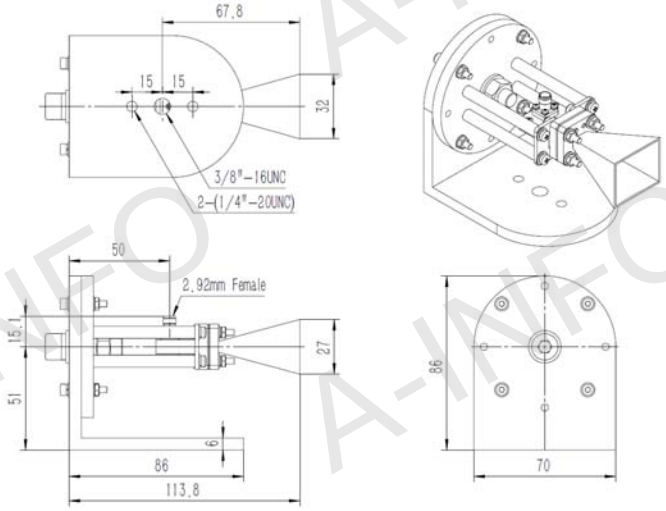
2.92mm-Female Output



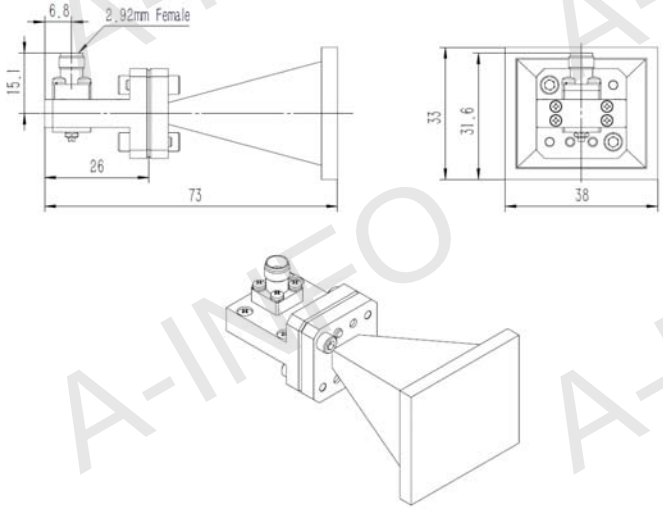

2.92mm-Female Output w/ Round Mounting Bracket




2.92mm-Female Output w/ L type Mounting Bracket




2.92mm-Female Output w/ Radome



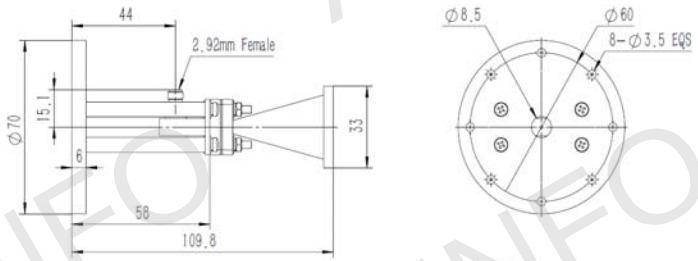



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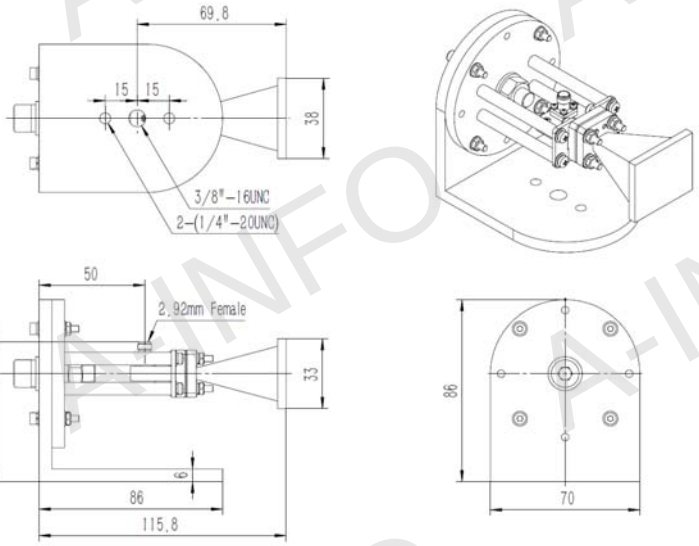
# Broadband Horn Antenna 18.0~40.0GHz(continued)

**P/N: LB-180400**

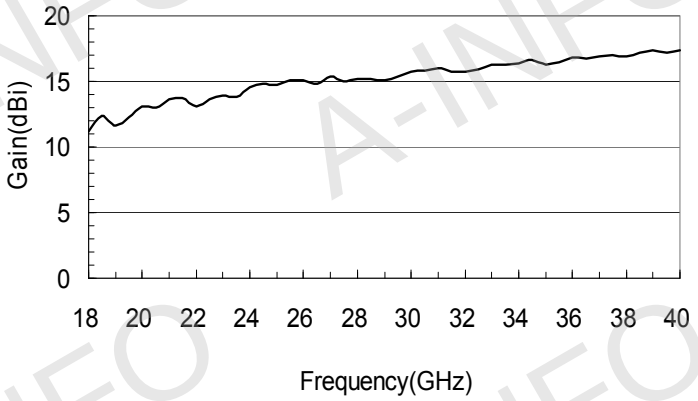
2.92mm-Female Output w/ Round Mounting Bracket and Radome



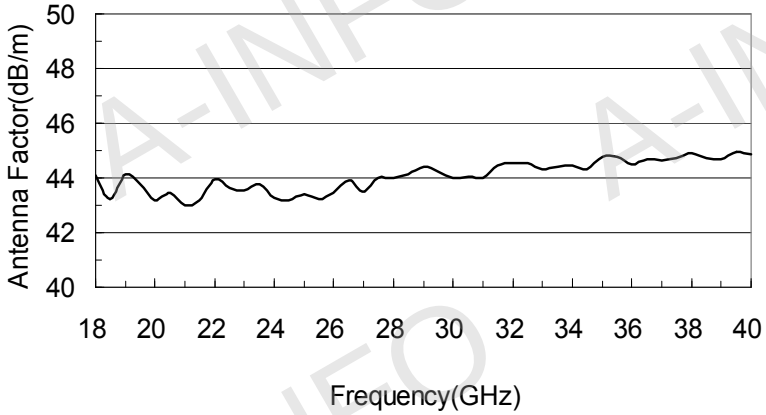

2.92mm-Female Output w/ L type Mounting Bracket and Radome



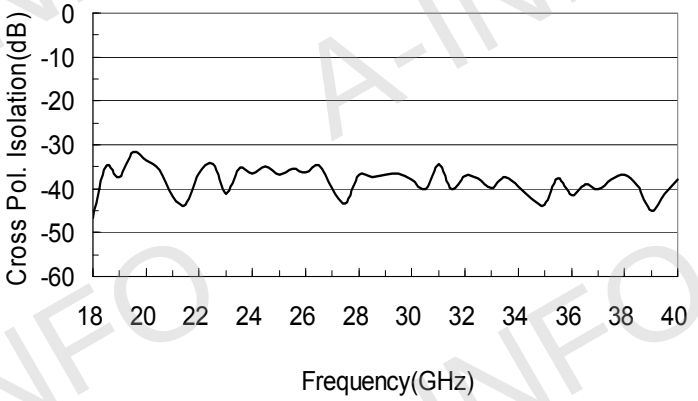

## Gain



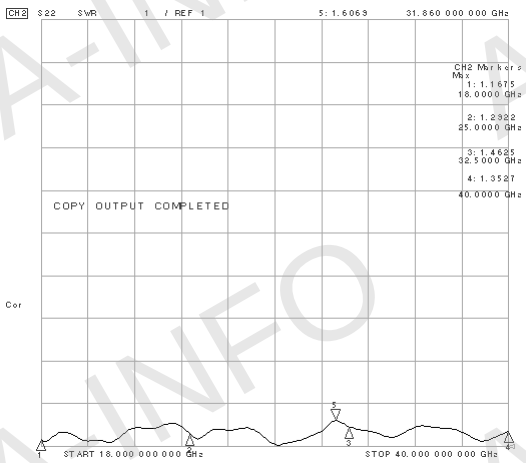

## Antenna Factor




## Cross Polarization Isolation




## VSWR



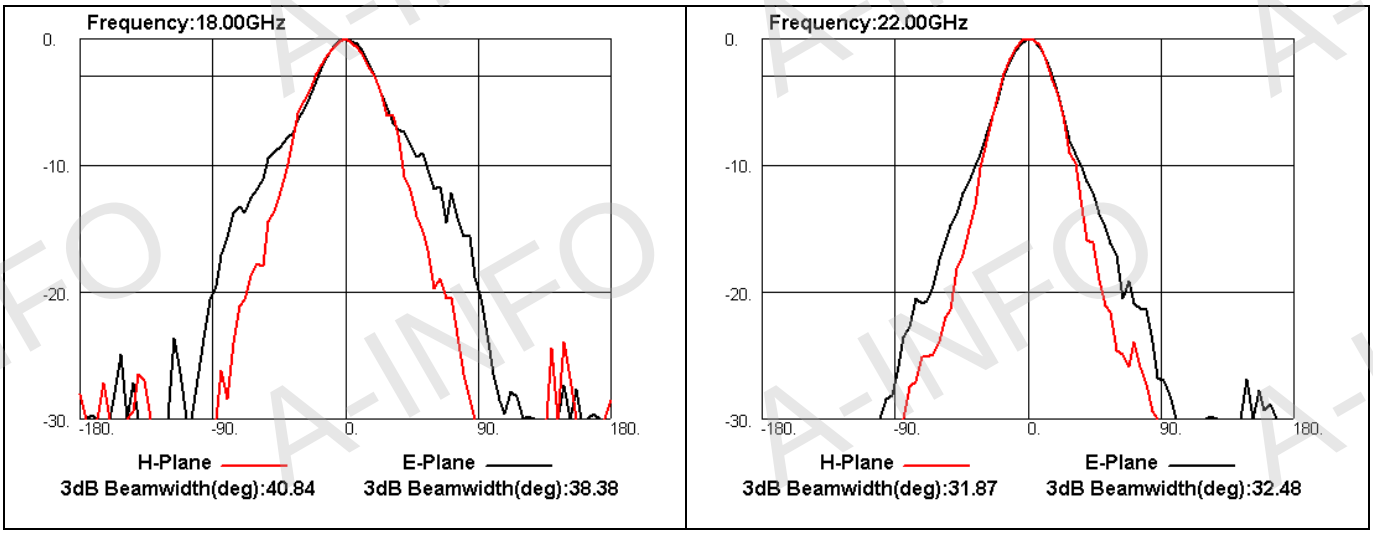



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# Broadband Horn Antenna 18.0~40.0GHz(continued)

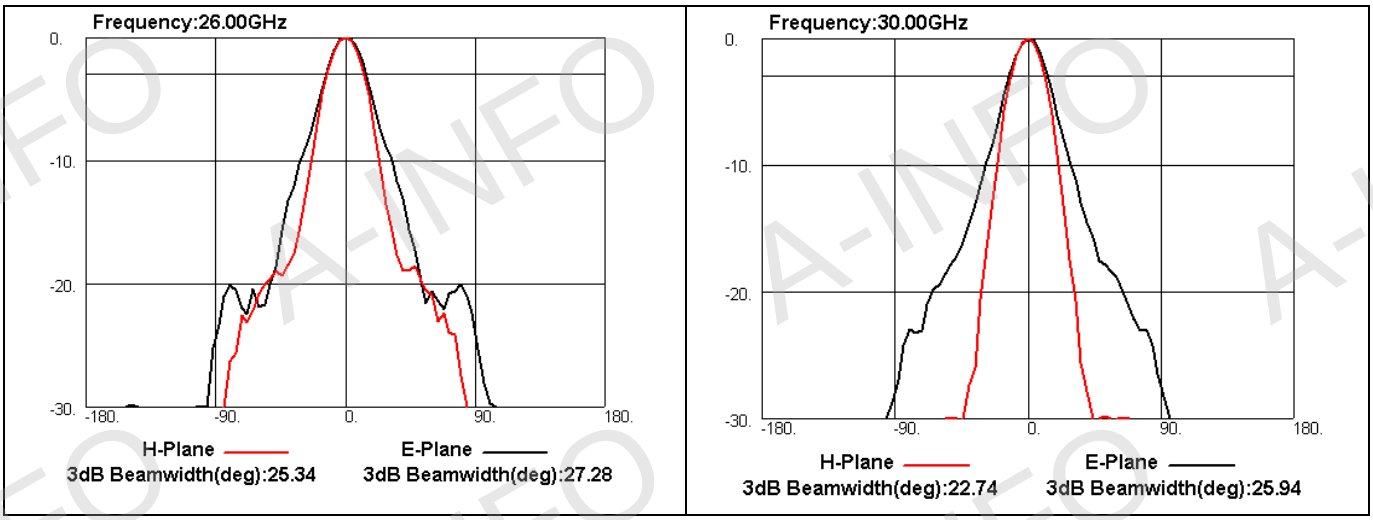
**P/N: LB-180400**

**Pattern**



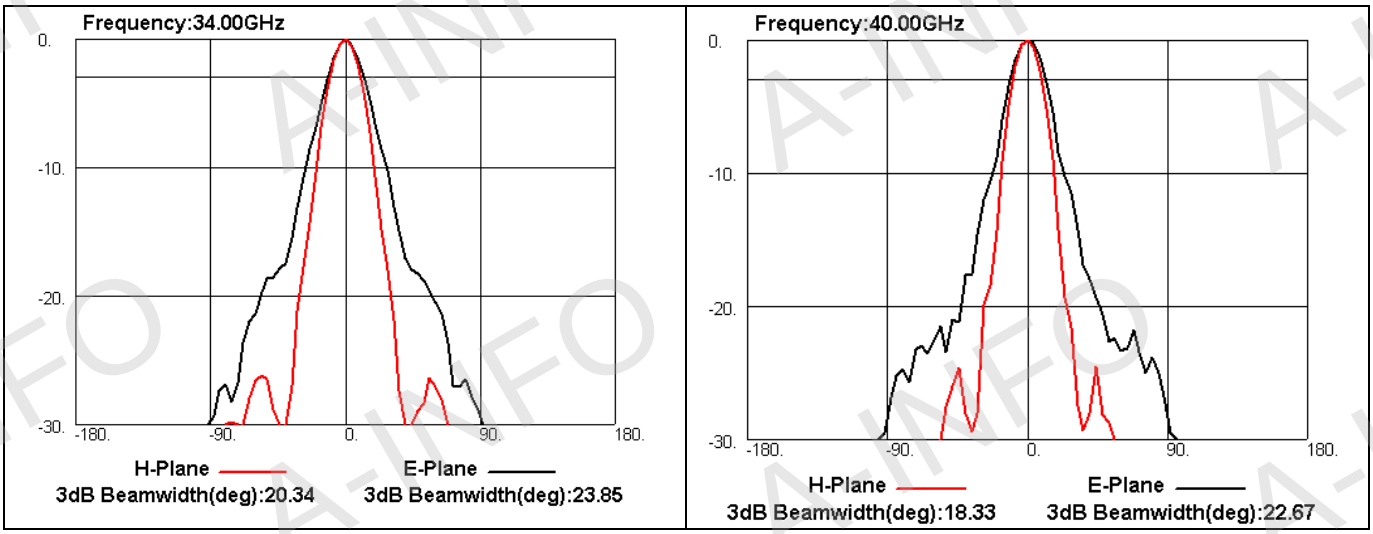












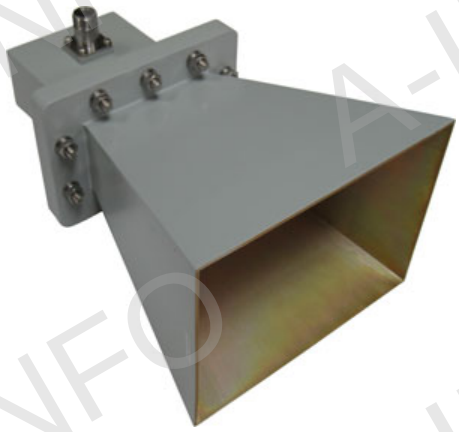






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# Octave Horn Antenna



The LB series octave horn antennas are linearly polarized and provide an efficient low cost means of making measurements. A-INFO's octave horn antenna can cover from 1GHz to 12GHz frequency range. These horns are ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna –Octave Horn and download.*

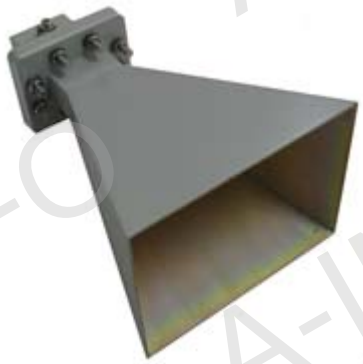
| Model | Frequency (GHz) | Gain (dB) | Waveguide | Connector |
|---|---|---|---|---|
| LB-OH-650-10-NF | 1.0-2.0 | 10 | WR650 | N-Female |
| LB-OH-650-10-SF | 1.0-2.0 | 10 | WR650 | SMA-Female |
| LB-OH-650-15-NF | 1.0-2.0 | 15 | WR650 | N-Female |
| LB-OH-650-15-SF | 1.0-2.0 | 15 | WR650 | SMA-Female |
| | | | | |
| LB-OH-320-10-NF | 2.0-4.0 | 10 | WR320 | N-Female |
| LB-OH-320-15-NF | 2.0-4.0 | 15 | WR320 | N-Female |
| | | | | |
| LB-OH-159-10-SF | 4.0-8.0 | 10 | WR159 | SMA -Female |
| LB-OH-159-10-NF | 4.0-8.0 | 10 | WR159 | N -Female |
| LB-OH-159-15-SF | 4.0-8.0 | 15 | WR159 | SMA -Female |
| LB-OH-159-15-NF | 4.0-8.0 | 15 | WR159 | N -Female |
| LB-OH-159-20-SF | 4.0-8.0 | 20 | WR159 | SMA -Female |
| LB-OH-159-20-NF | 4.0-8.0 | 20 | WR159 | N -Female |
| | | | | |
| LB-OH-112-10-SF | 6.0-12.0 | 10 | WR112 | SMA -Female |
| LB-OH-112-10-NF | 6.0-12.0 | 10 | WR112 | N -Female |
| LB-OH-112-15-SF | 6.0-12.0 | 15 | WR112 | SMA -Female |
| LB-OH-112-15-NF | 6.0-12.0 | 15 | WR112 | N -Female |
| LB-OH-112-20-SF | 6.0-12.0 | 20 | WR112 | SMA -Female |
| LB-OH-112-20-NF | 6.0-12.0 | 20 | WR112 | N -Female |



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# Octave Horn Antenna 4.0~8.0GHz

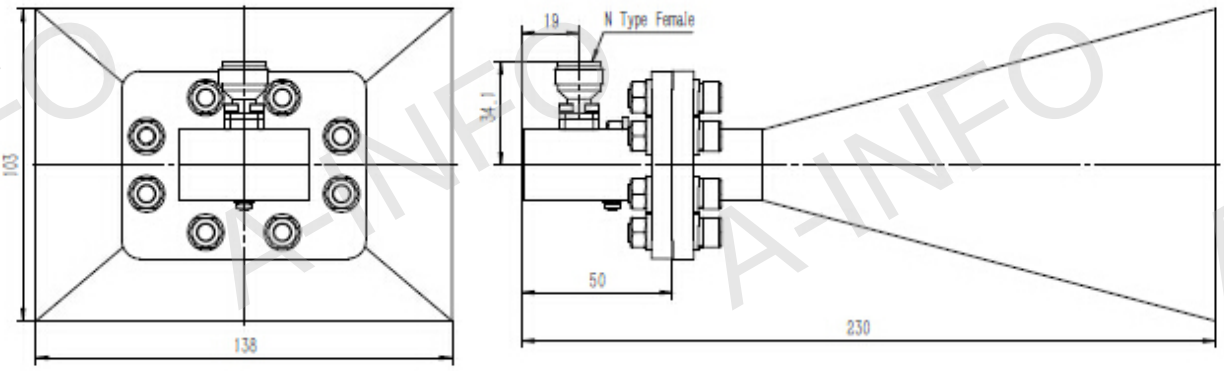
**P/N: LB-OH-159-15**



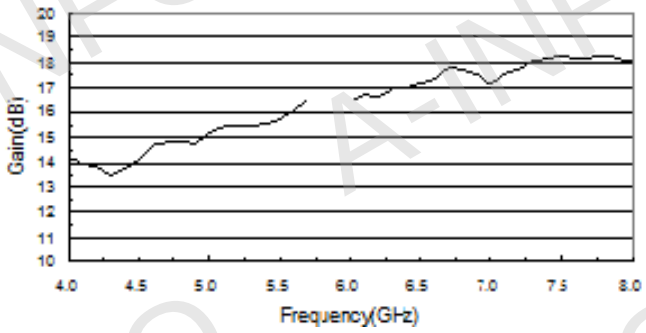
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 4.0-8.0 |
| Gain(dB) | 15 typ. |
| Polarization | Linear |
| Connector | N-F or SMA-F |
| Size(mm) | 138 x 103 x230 |
| Net Weight(Kg) | 0.5 Around |

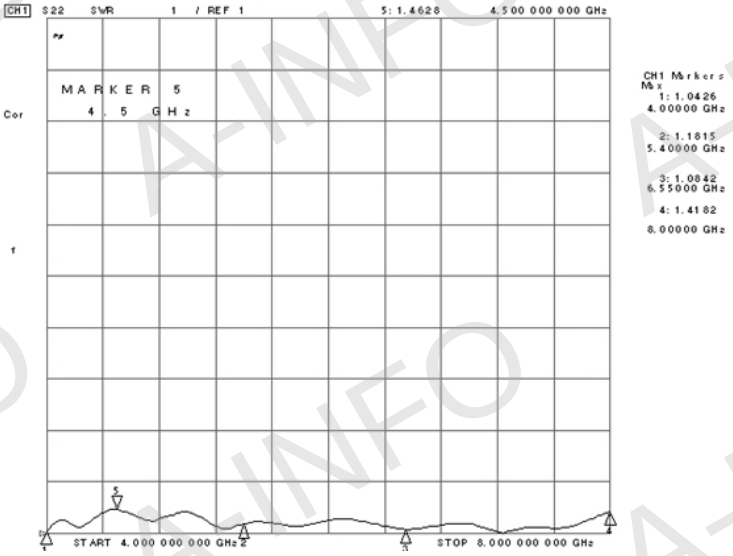
## Outline Drawing (Size: mm)




## Gain




## VSWR





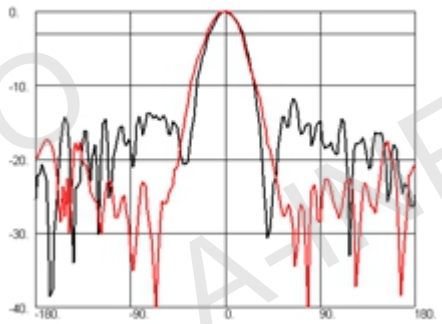

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# Octave Horn Antenna 4.0~8.0GHz(continued)

**P/N: LB-OH-159-15**

**Pattern**

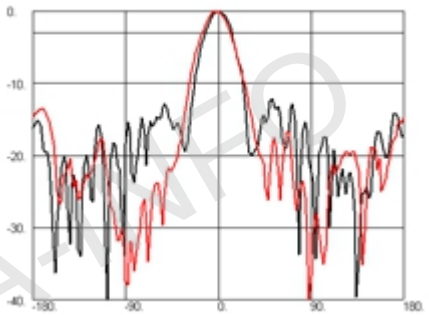
Frequency:4.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 32.51 | 3dB Beamwidth (deg): 31.22

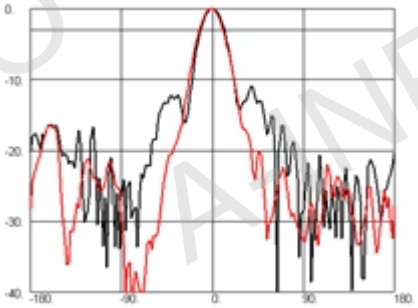
Frequency:5.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 26.87 | 3dB Beamwidth (deg): 25.64

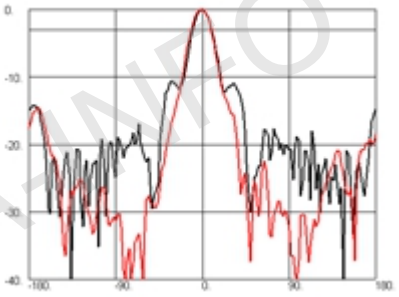
Frequency: 6.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 23.23 | 3dB Beamwidth (deg): 23.55

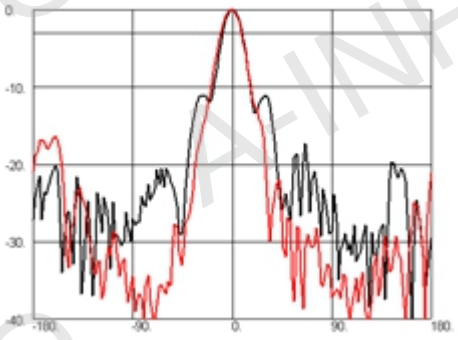
Frequency: 7.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 20.83 | 3dB Beamwidth (deg): 19.86

Frequency: 8.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 18.80 | 3dB Beamwidth (deg): 17.69



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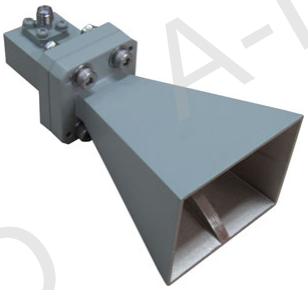
# Multi Octave Horn Antenna

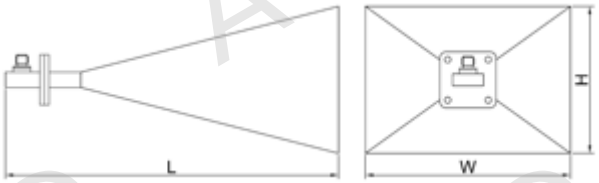
A Type:






C Type:






| Model Information | | | | | |
|---|---|---|---|---|---|
| Example Part Number: | LB | -08420 | -15 | -C | -SF |
| Product Code | | | | | |
| Frequency Range: 0.84 - 2.0GHz | | | | | |
| Gain in dB, Standard gain is 10dB, 15dB, 20dB, 25dB | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female;<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | |

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Multi Octave Horn Antenna and download.*



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| Model | Freq. Range (GHz) | Pol. | Gain (dB) Typ. | Figure | Waveguide | Size(mm) | | | VSWR Max. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-08420-10-A | 0.84-2.0 | Linear | 10 | A | WRD84D24 | - | - | - | - |
| LB-08420-10-C-XX | | | | C | NF/SF | - | - | - | 2.0 |
| LB-08420-15-A | | | 15 | A | WRD84D24 | 586 | 436 | 550 | - |
| LB-08420-15-C-XX | | | | C | NF/SF | 586 | 436 | 769 | 2.0 |
| | | | | | | | | | |
| LB-1536-10-A | 1.5-3.6 | Linear | 10 | A | WRD150D24 | - | - | - | - |
| LB-1536-10-C-XX | | | | C | NF/SF | - | - | - | 2.0 |
| LB-1536-15-A | | | 15 | A | WRD150D24 | - | - | - | - |
| LB-1536-15-C-XX | | | | C | NF/SF | - | - | - | 2.0 |
| | | | | | | | | | |
| LB-2048-10-A | 2.0-4.8 | Linear | 10 | A | WRD200D24 | 164 | 134 | 195 | - |
| LB-2048-10-C-XX | | | | C | NF/SF | 164 | 134 | 292 | 2.0 |
| LB-2048-15-A | | | 15 | A | WRD200D24 | 245 | 195 | 310 | - |
| LB-2048-15-C-XX | | | | C | NF/SF | 245 | 195 | 407 | 2.0 |
| | | | | | | | | | |
| LB-2678-10-A | 2.6-7.8 | Linear | 10 | A | WRD250D30 | 124 | 104 | 150 | - |
| LB-2678-10-C-XX | | | | C | NF/SF | 124 | 104 | 217 | 2.0 |
| LB-2678-15-A | | | 15 | A | WRD250D30 | 228 | 158 | 313 | - |
| LB-2678-15-C-XX | | | | C | NF/SF | 228 | 158 | 380 | 2.0 |
| | | | | | | | | | |
| LB-3582-10-A | 3.5-8.2 | Linear | 10 | A | WRD350D24 | 103 | 83 | 147 | - |
| LB-3582-10-C-XX | | | | C | NF/SF | 103 | 83 | 205 | 2.0 |
| LB-3582-15-A | | | 15 | A | WRD350D24 | 157 | 131 | 227 | - |
| LB-3582-15-C-XX | | | | C | NF/SF | 157 | 131 | 285 | 2.0 |
| | | | | | | | | | |
| LB-475110-10-A | 4.75-11.0 | Linear | 10 | A | WRD475D24 | 73 | 58 | 105 | - |
| LB-475110-10-C-XX | | | | C | NF/SF | 73 | 58 | 150 | 2.0 |
| LB-475110-15-A | | | 15 | A | WRD475D24 | 116 | 97 | 171 | - |
| LB-475110-15-C-XX | | | | C | NF/SF | 116 | 97 | 216 | 2.0 |
| | | | | | | | | | |
| LB-58160-10-A | 5.8-16.0 | Linear | 10 | A | WRD580D28 | 65 | 51 | 98 | - |
| LB-58160-10-C-XX | | | | C | NF/SF | 65 | 51 | 141 | 2.0 |
| LB-58160-15-A | | | 15 | A | WRD580D28 | 84 | 71 | 124 | - |
| LB-58160-15-C-XX | | | | C | NF/SF | 84 | 71 | 167 | 2.0 |
| LB-58160-20-A | | | 20 | A | WRD580D28 | 134 | 112 | 243 | - |
| LB-58160-20-C-XX | | | | C | NF/SF | 134 | 112 | 286 | 2.0 |
| | | | | | | | | | |
| LB-65180-10-A | 6.5-18.0 | Linear | 10 | A | WRD650D28 | 55 | 44 | 73 | - |
| LB-65180-10-C-XX | | | | C | NF/SF | 55 | 44 | 109 | 2.0 |
| LB-65180-15-A | | | 15 | A | WRD650D28 | 78 | 66 | 110 | - |
| LB-65180-15-C-XX | | | | C | NF/SF | 78 | 66 | 146 | 2.0 |
| LB-65180-20-A | | | 20 | A | WRD650D28 | 124 | 104 | 226 | - |
| LB-65180-20-C-XX | | | | C | NF/SF | 124 | 104 | 262 | 2.0 |



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| Model | Freq. Range (GHz) | Pol. | Gain (dB) Typ. | Figure | Output | Size(mm) | | | VSWR Max. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-75180-10-A | 7.5-18.0 | Linear | 10 | A | WRD750D24 | 48 | 39 | 65 | - |
| LB-75180-10-C-XX | | | | C | NF/SF | 48 | 39 | 96.7 | 2.0 |
| LB-75180-15-A | | | 15 | A | WRD750D24 | 74.5 | 62.4 | 112 | - |
| LB-75180-15-C-XX | | | | C | NF/SF | 74.5 | 62.4 | 143.7 | 2.0 |
| LB-75180-20-A | | | 20 | A | WRD750D24 | 108 | 90 | 206 | - |
| LB-75180-20-C-XX | | | | C | NF/SF | 108 | 90 | 238 | 2.0 |
| | | | | | | | | | |
| LB-110265-10-A | 11.0-26.5 | Linear | 10 | A | WRD110C24 | 32 | 26 | 47 | - |
| LB-110265-10-C-XX | | | | C | SF | 32 | 26 | 71.6 | 2.0 |
| LB-110265-15-A | | | 15 | A | WRD110C24 | 52 | 43 | 88 | - |
| LB-110265-15-C-XX | | | | C | SF | 52 | 43 | 112 | 2.0 |
| LB-110265-20-A | | | 20 | A | WRD110C24 | 75 | 63 | 139 | - |
| LB-110265-20-C-XX | | | | C | SF | 75 | 63 | 163 | 2.0 |
| | | | | | | | | | |
| LB-180400-10-A | 18.0-40.0 | Linear | 10 | A | FPWRD180C24 | 22.4 | 22.4 | 29.8 | - |
| LB-180400-10-C-XX | | | | C | KF/2.4F | 22.4 | 26.3 | 55.8 | 2.0 |
| LB-180400-15-A | | | 15 | A | FPWRD180C24 | 32 | 27 | 45 | - |
| LB-180400-15-C-XX | | | | C | KF/2.4F | 32 | 28.6 | 71 | 2.0 |
| LB-180400-20-A | | | 20 | A | FPWRD180C24 | 55 | 55 | 87 | - |
| LB-180400-20-C-XX | | | | C | KF/2.4F | 55 | 55 | 113 | 2.0 |
| LB-180400-25-A | | | 25 | A | FPWRD180C24 | 95 | 95 | 263 | - |
| LB-180400-25-C-XX | | | | C | KF/2.4F | 95 | 95 | 289 | 2.0 |



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# *Multi Octave Horn Antenna 0.84~2.0GHz*

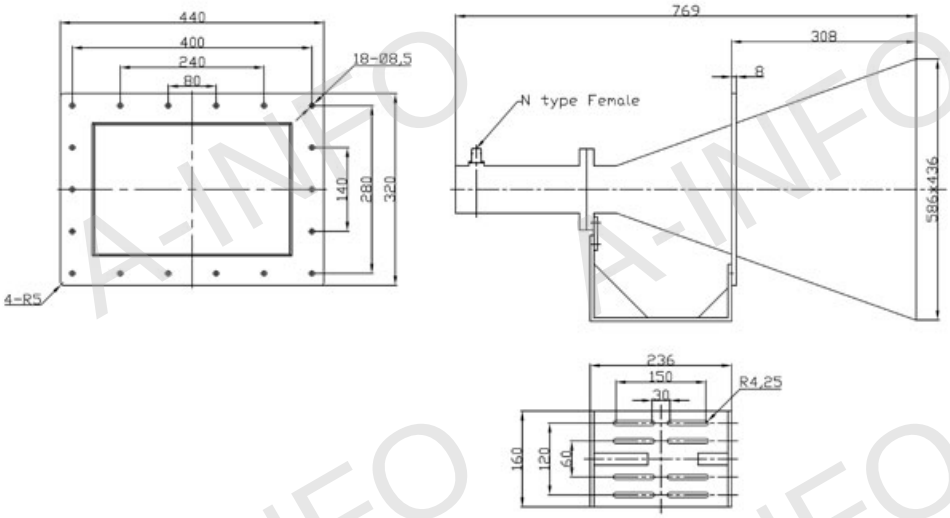
**P/N: LB-08420-15**



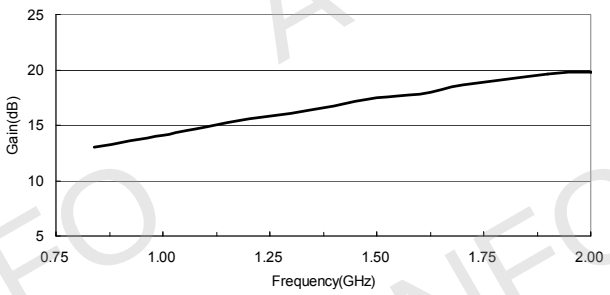
## Technical Specification

| | |
|---|---|
| **Frequency Range(GHz)** | 0.84 - 2.0 |
| **Gain(dB)** | 15 Typ. |
| **Polarization** | Linear |
| **VSWR** | 2.0 Max |
| **Waveguide(A Type)** | WRD84D24 |
| **Adapter(C Type)** | 84DRWCAN |
| **Connector(C Type)** | N-Female |
| **Size(mm)** | 586 x 436 x 769 (Including Adapter) |
| **Net Weight(Kg)** | 10.5 Around (Including Adapter) |

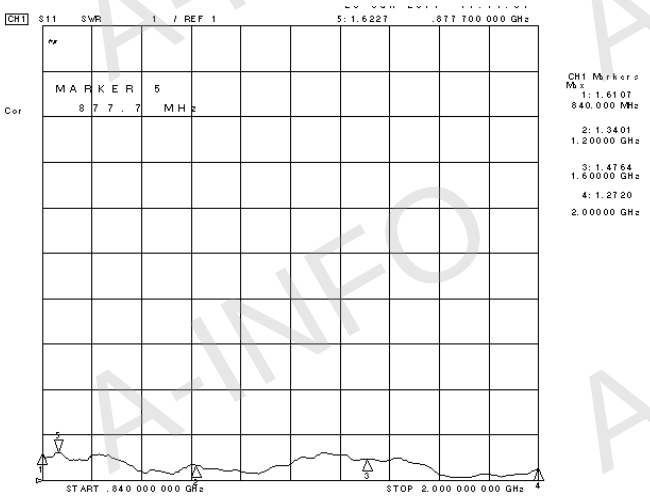
## Outline Drawing (Size: mm)




## Gain




## VSWR





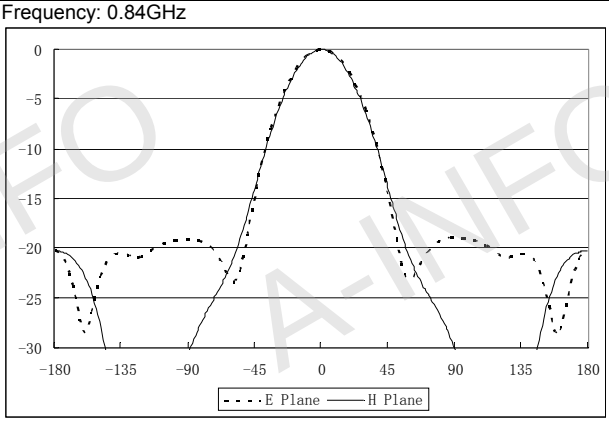

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# Multi Octave Horn Antenna 0.84~2.0GHz(continued)

## P/N: LB-08420-15

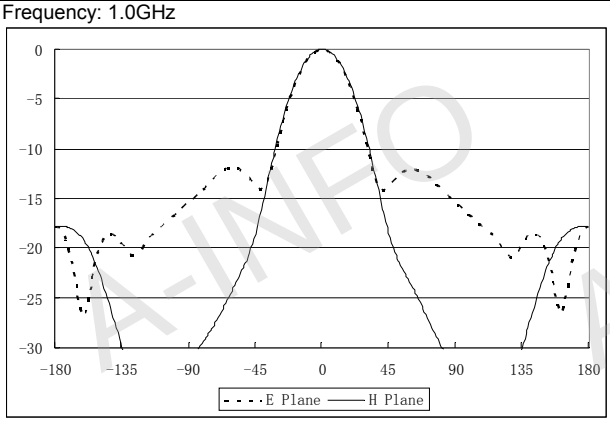
### Pattern

Frequency: 0.84GHz



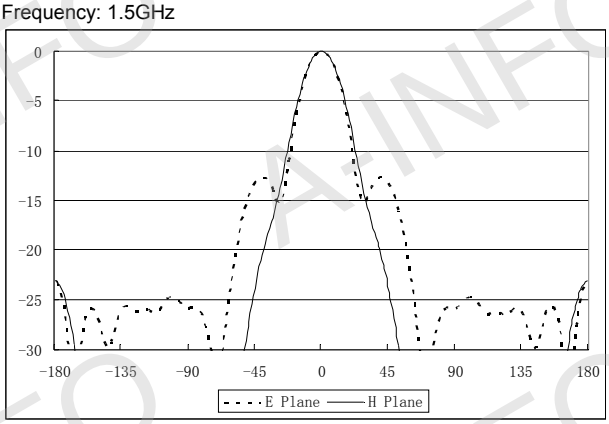

H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 40.0 3dB Beamwidth(deg): 42.0

Frequency: 1.0GHz



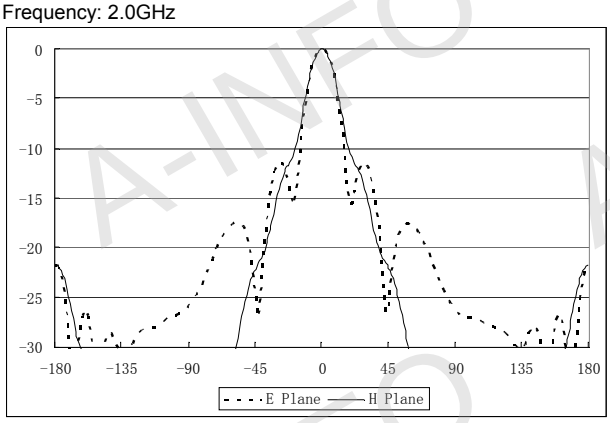

H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 35.0 3dB Beamwidth(deg): 34.0

Frequency: 1.5GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 25.0 3dB Beamwidth(deg): 24.0

Frequency: 2.0GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 18.0 3dB Beamwidth(deg): 17.4



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# Multi Octave Horn Antenna 2.0~4.8GHz

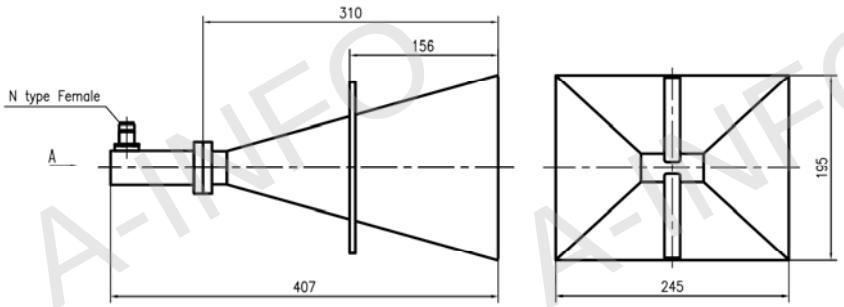
**P/N: LB-2048-15**

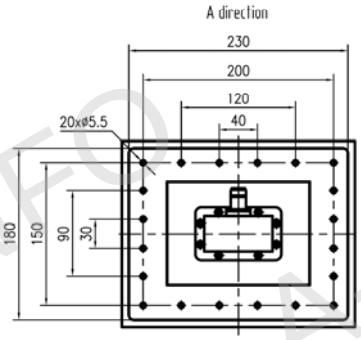


## Technical Specification

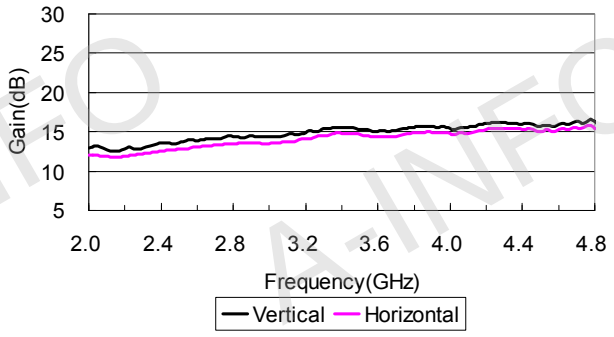
| | |
|---|---|
| Frequency Range(GHz) | 2.0-4.8 |
| Gain(dB) | 15 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 40-20 |
| VSWR | 2.0 Max |
| Waveguide(A Type) | WRD200D24 |
| Adapter(C Type) | 200DRWCAN or 200DRWCAS |
| Connector(C Type) | N-Female or SMA-Female |
| Size(mm) | A Type: 245x195x310 / C Type: 245x195x407 |
| Net Weight(Kg) | A Type: 2.0 Around / C Type: 2.6 Around |

## Outline Drawing (Size: mm)

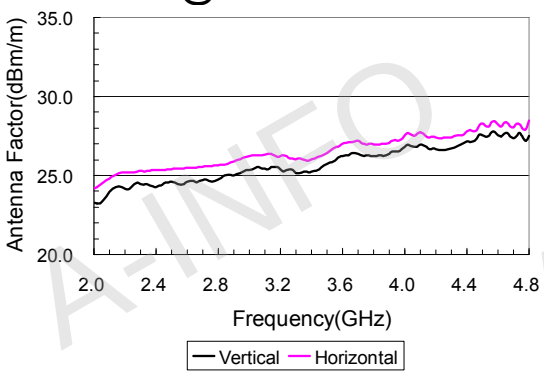



## Gain@ 1m distance




## Antenna Factor@ 1m distance



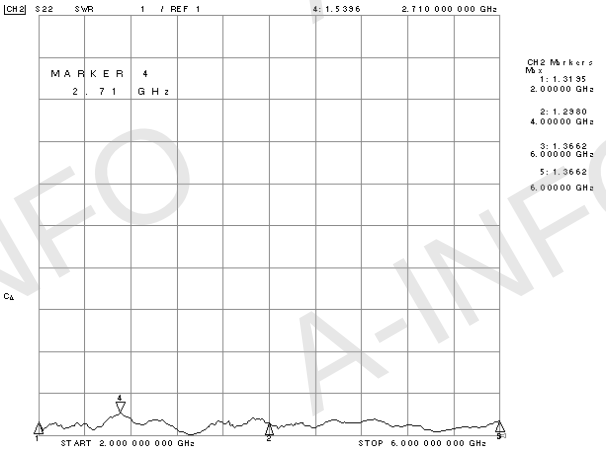



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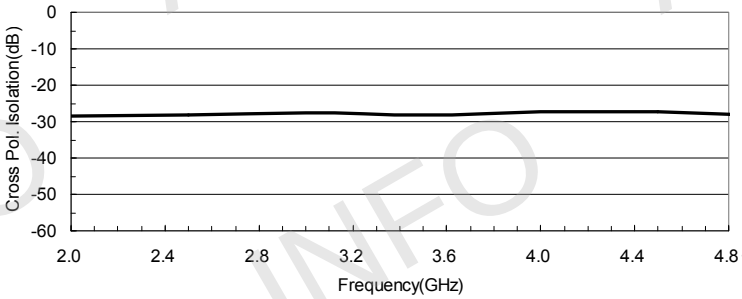
# Multi Octave Horn Antenna 2.0~4.8GHz(continued)

## P/N: LB-2048-15

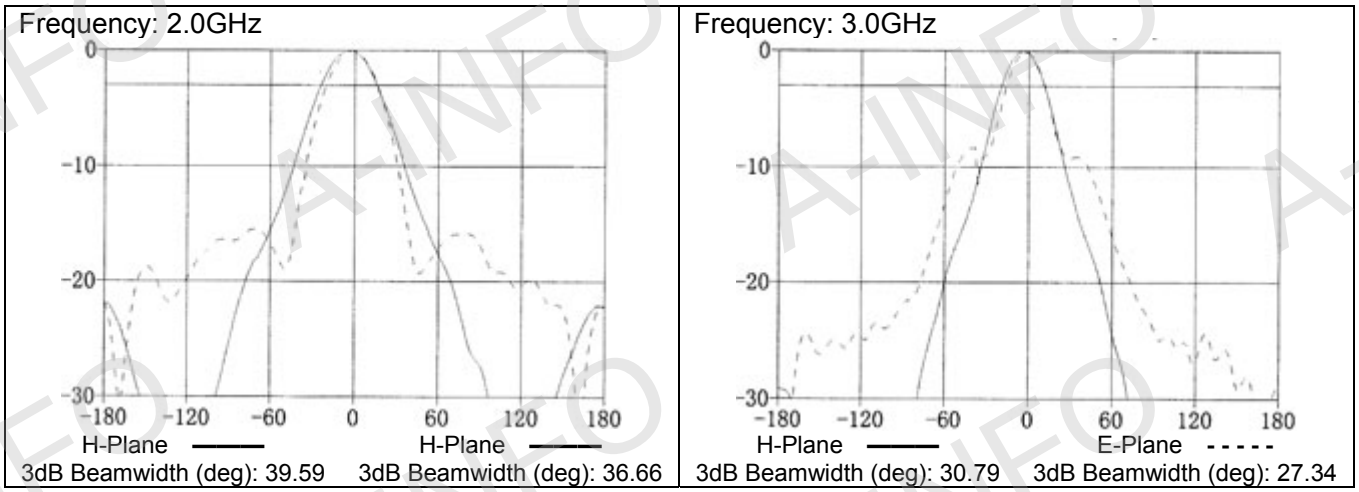
### VSWR




### Cross Polarization Isolation




### Pattern

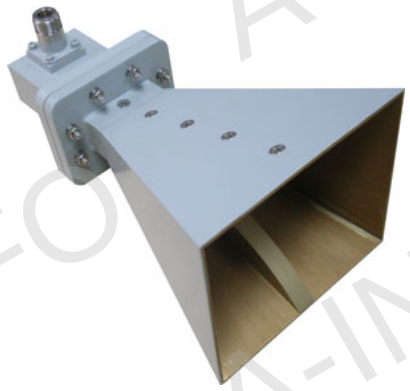





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# Multi Octave Horn Antenna 2.6~7.8GHz

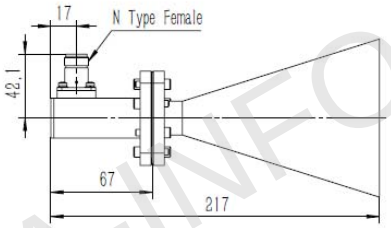
**P/N: LB-2678-10**

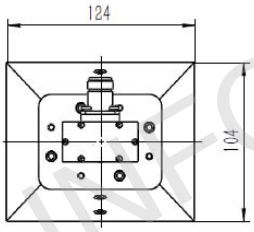


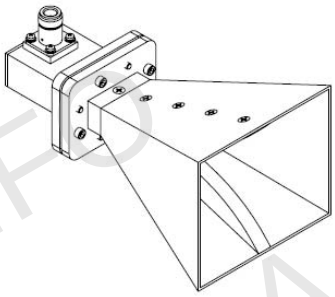
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2.6-7.8 |
| Gain(dB) | 10 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 60-20 |
| VSWR | 2.0 Max |
| Waveguide(A Type) | WRD250D30 |
| Adapter(C Type) | 250DRWCAN or 250DRWCAS |
| Connector(C Type) | N-Female or SMA-Female |
| Size(mm) | A Type: 124x104x150 / C Type: 124x104x217 |
| Net Weight(Kg) | A Type: 0.5 Around / C Type: 0.8 Around |

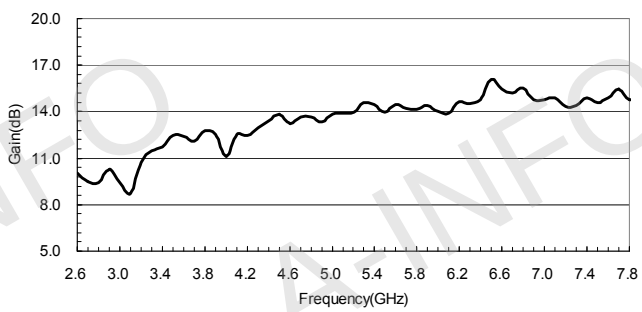
## Outline Drawing (Size: mm)



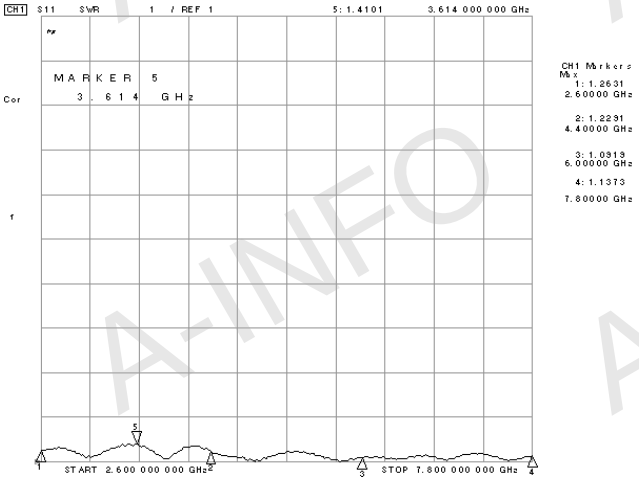



## Gain




## VSWR





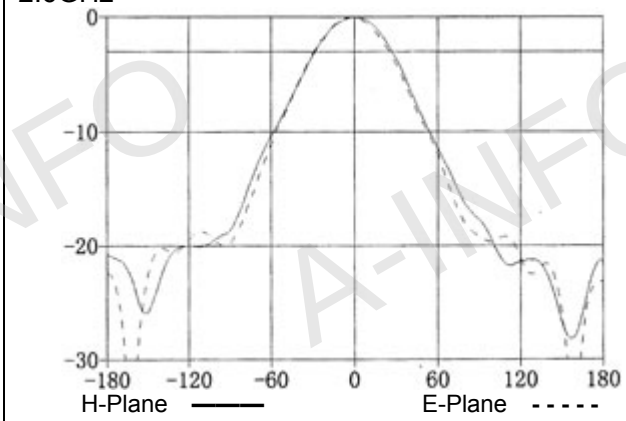

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# Multi Octave Horn Antenna 2.6~7.8GHz(continued)

**P/N: LB-2678-10**

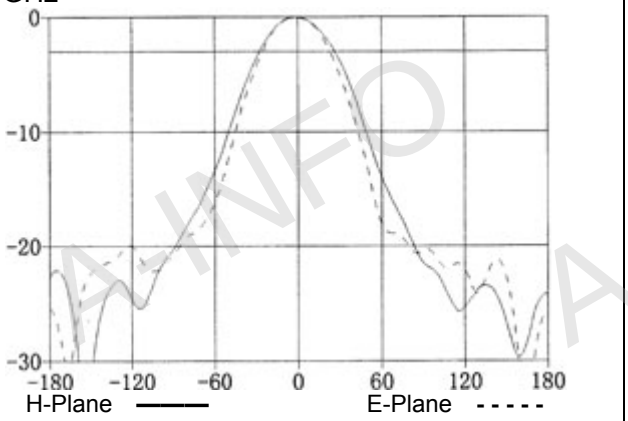
**Pattern**

2.6GHz



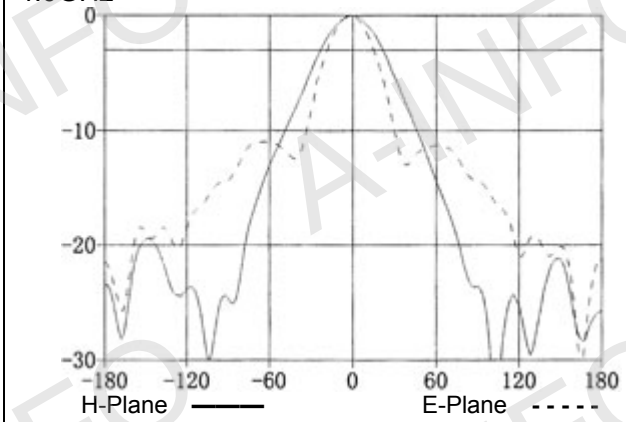

3dB Beamwidth(deg): 55.23 3dB Beamwidth(deg): 54.05

3.0GHz



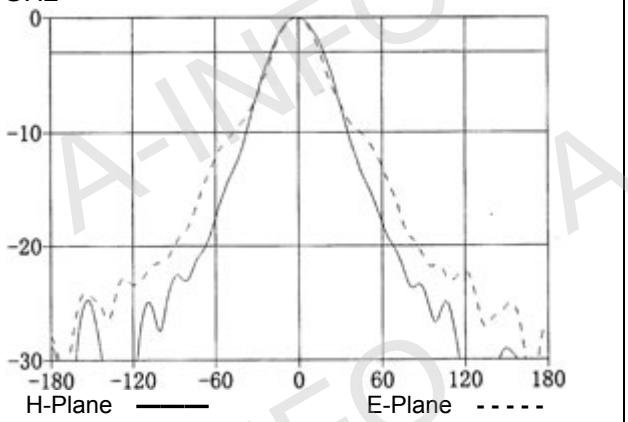

3dB Beamwidth(deg): 53.88 3dB Beamwidth(deg): 48.37

4.0GHz



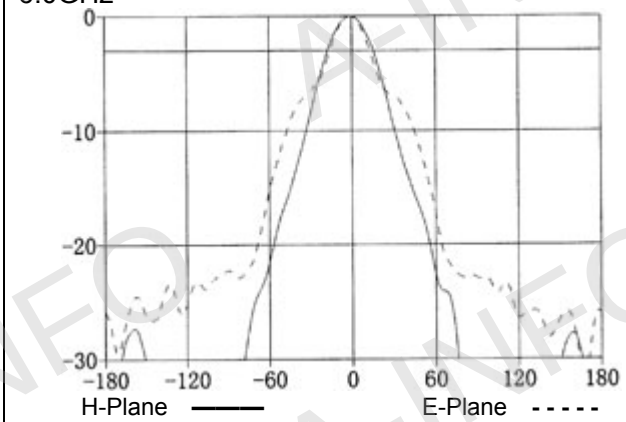

3dB Beamwidth(deg): 44.77 3dB Beamwidth(deg): 33.53

5.0GHz



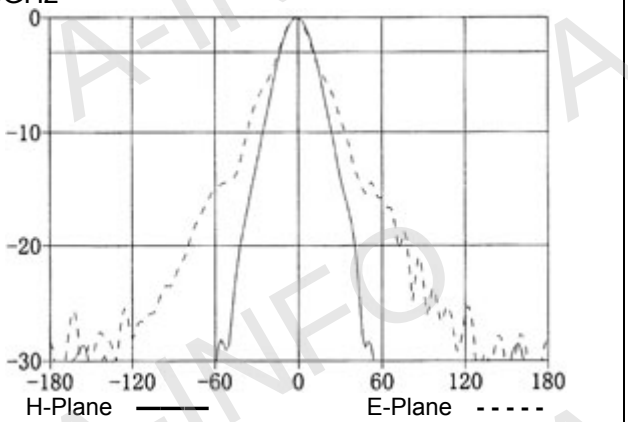

3dB Beamwidth(deg): 37.67 3dB Beamwidth(deg): 33.54

6.0GHz




3dB Beamwidth(deg): 32.98 3dB Beamwidth(deg): 28.79

7.8GHz



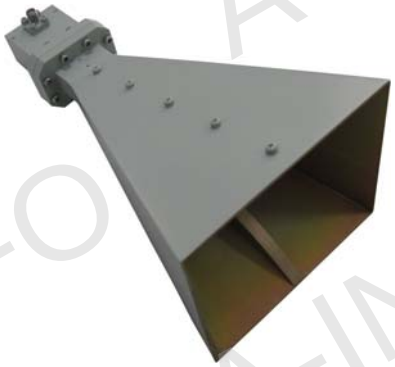

3dB Beamwidth(deg): 24.55 3dB Beamwidth(deg): 24.83



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# Multi Octave Horn Antenna 4.75~11.0GHz

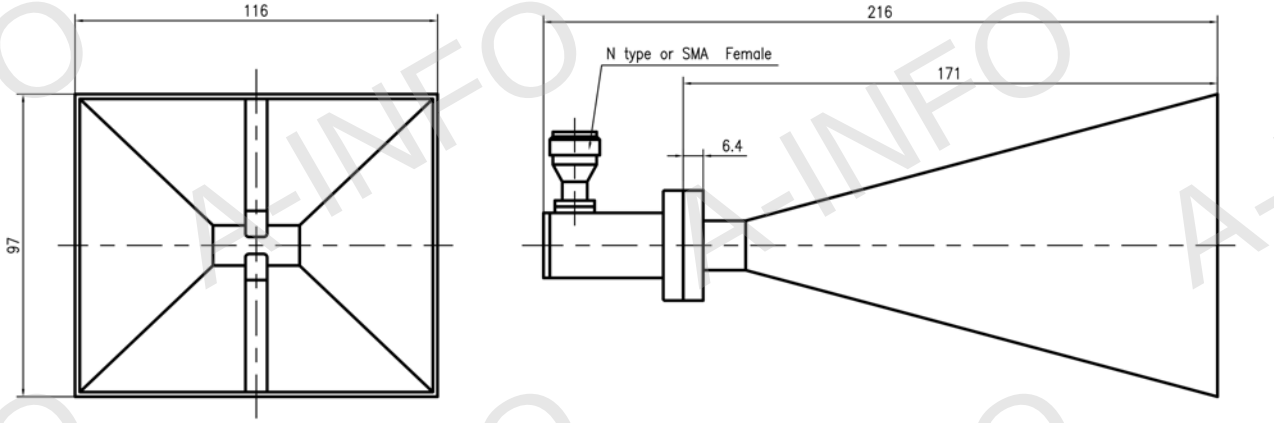
**P/N: LB-475110-15**



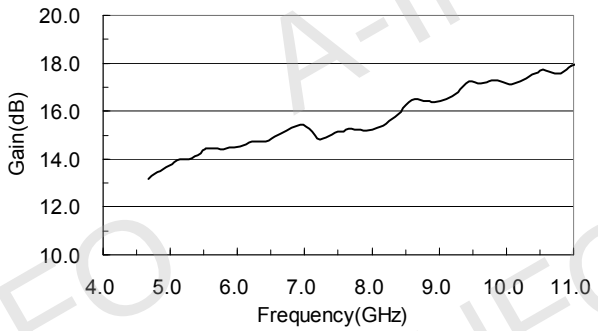
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 4.75-11.0 |
| Gain(dB) | 15 Typ. |
| Polarization | Linear |
| VSWR | 2.0 Max |
| Cross Pol. Isolation(dB) | 35 Typ. |
| Waveguide(A Type) | WRD475D24 |
| Adapter(C Type) | 475DRWCAN or 475DRWCAS |
| Connector(C Type) | N-Female or SMA-Female |
| Size(mm) | A Type: 116x97x171 /<br>C Type: 116x97x216 |
| Net Weight(Kg) | A Type: 0.3 Around /<br>C Type: 0.4 Around |

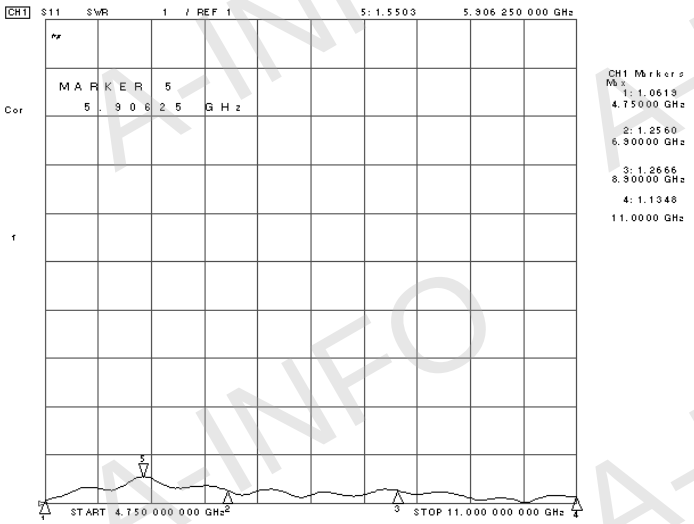
## Outline Drawing (Size: mm)




## Gain




## VSWR



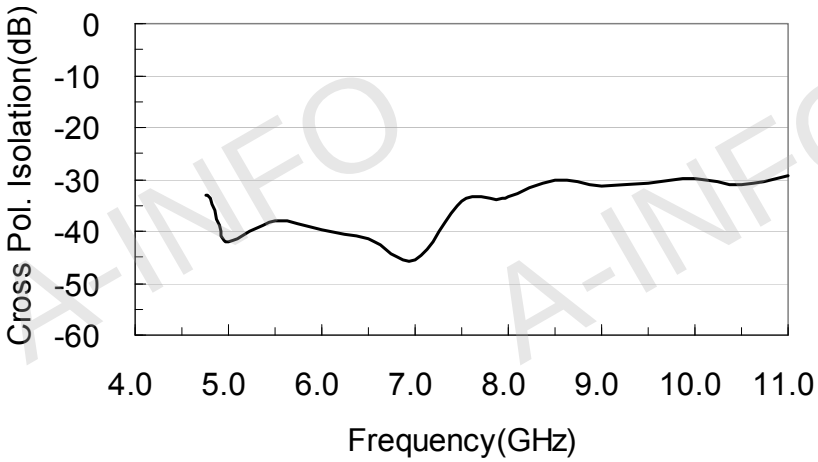



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# *Multi Octave Horn Antenna 4.75~11.0GHz(continued)*

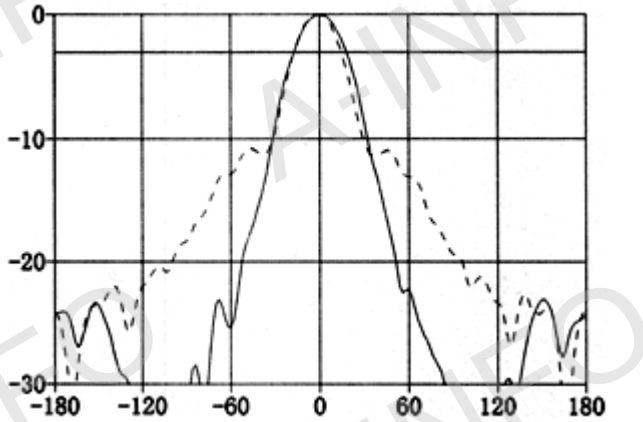
**P/N: LB-475110-15**

**Cross Pol. Isolation**



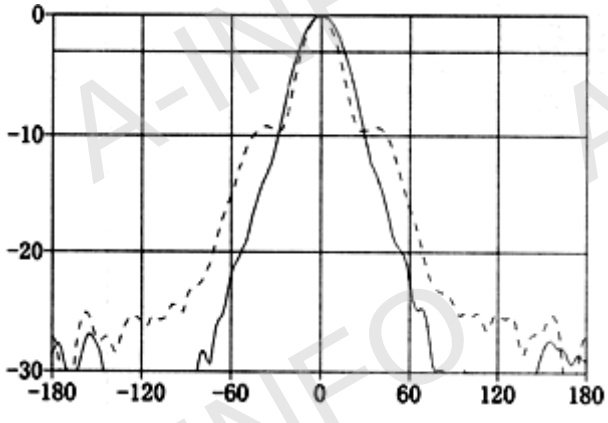

**Pattern**

4.75GHz



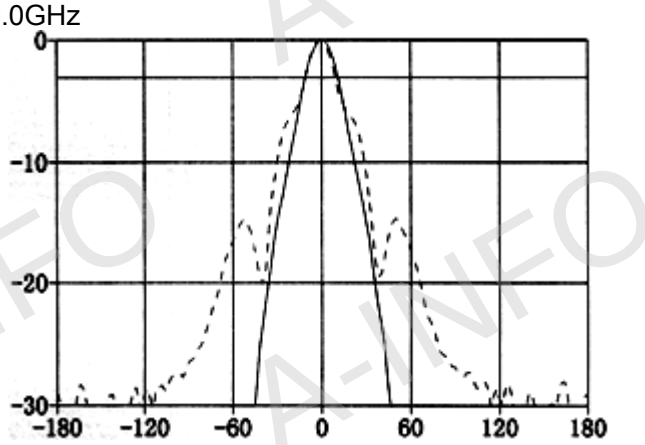

3dB Beamwidth (deg): 35.26 3dB Beamwidth (deg): 31.83

6.0GHz



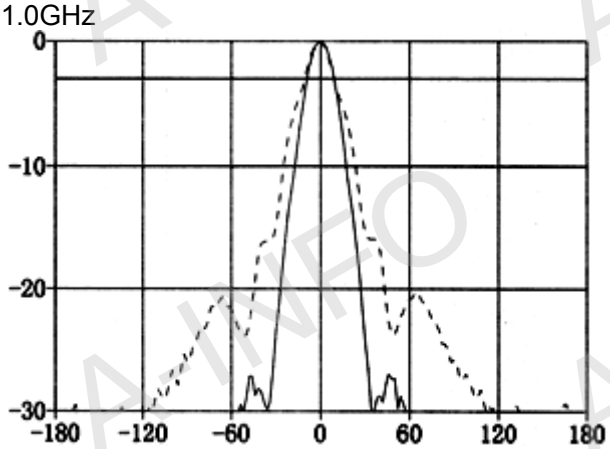

3dB Beamwidth (deg): 30.73 3dB Beamwidth (deg): 24.56

9.0GHz




3dB Beamwidth (deg): 22.11 3dB Beamwidth (deg): 20.37

11.0GHz



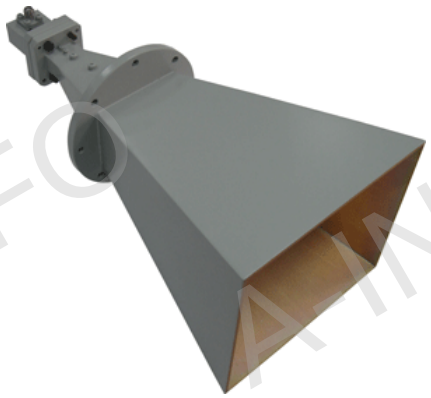

3dB Beamwidth (deg): 18.17 3dB Beamwidth (deg): 19.88



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# *Multi Octave Horn Antenna 6.5~18.0GHz*

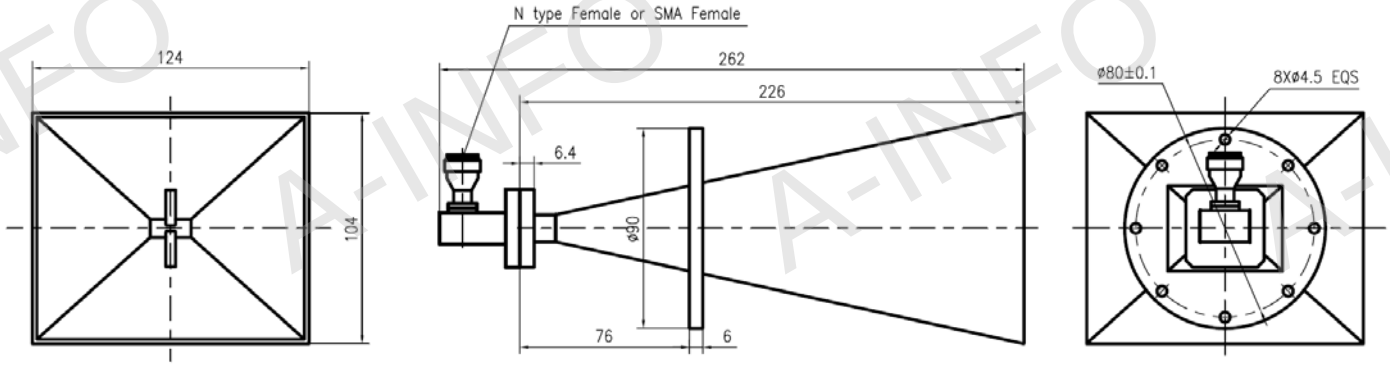
**P/N: LB-65180-20**



## Technical Specification

| | |
|---|---|
| **Frequency Range(GHz)** | 6.5-18.0 |
| **Gain(dB)** | 20 Typ. |
| **Polarization** | Linear |
| **VSWR** | 2.0 Max |
| **Cross Pol. Isolation(dB)** | 30 Typ. |
| **Waveguide(A Type)** | WRD650D28 |
| **Adapter(C Type)** | 650DRWCAN or 650DRWCAS |
| **Connector(C Type)** | N-Female or SMA-Female |
| **Size(mm)** | A Type: 124x104x226 /<br>C Type: 124x104x262 |
| **Net Weight(Kg)** | A Type: 0.6 Around /<br>C Type: 0.8 Around |

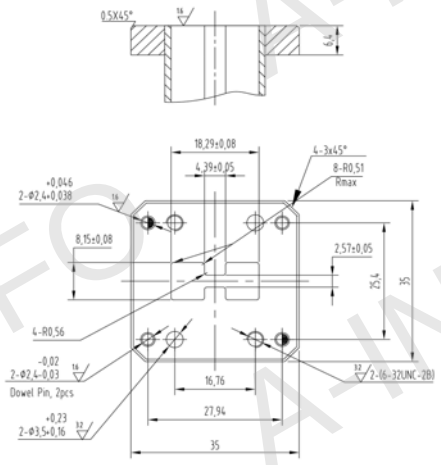
## Outline Drawing (Size: mm)



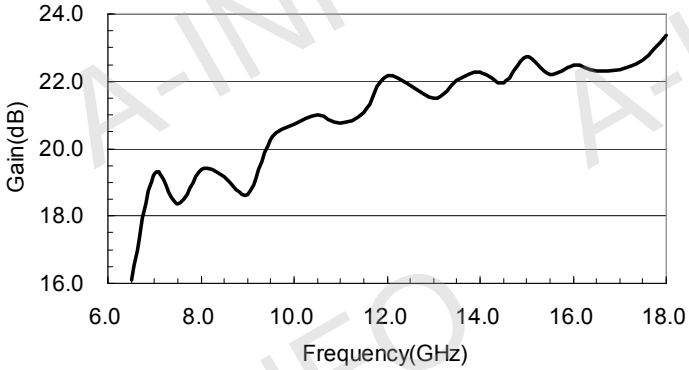

## Flange Drawing (Size: mm)

FPWRD650D28

(With two through mounting holes and two screws holes)



## Gain



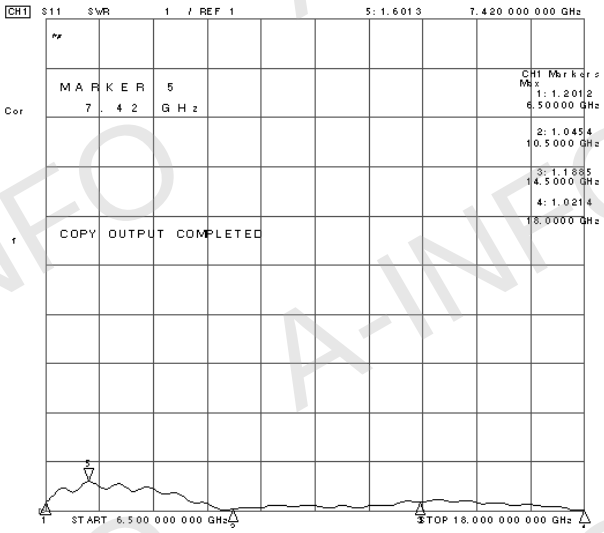



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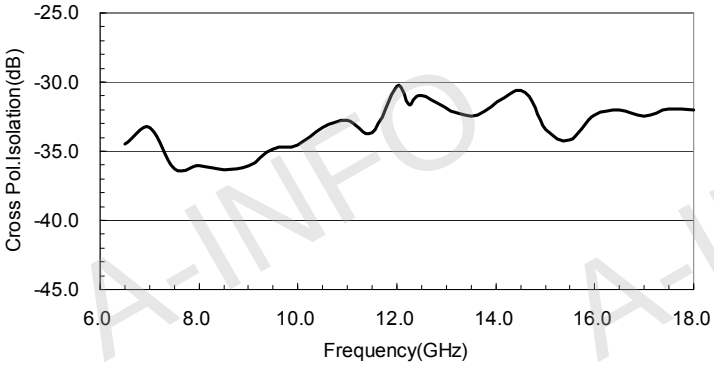
# Multi Octave Horn Antenna 6.5~18.0GHz(continued)

**P/N: LB-65180-20**

## VSWR

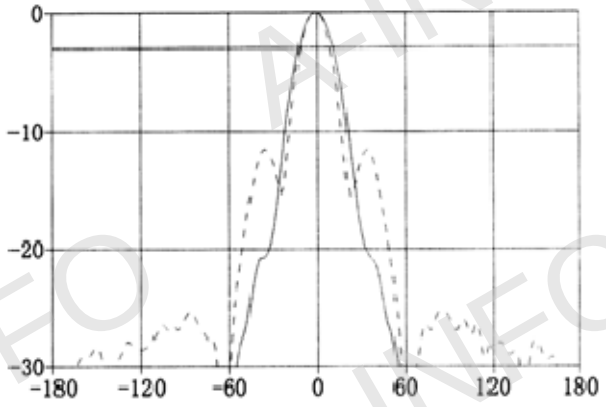



## Cross Pol. Isolation



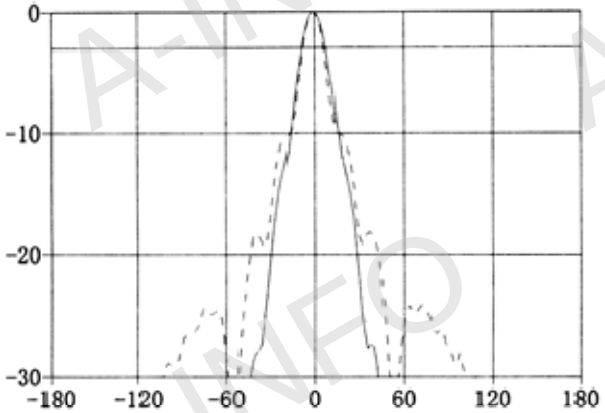

## Pattern

6.5GHz



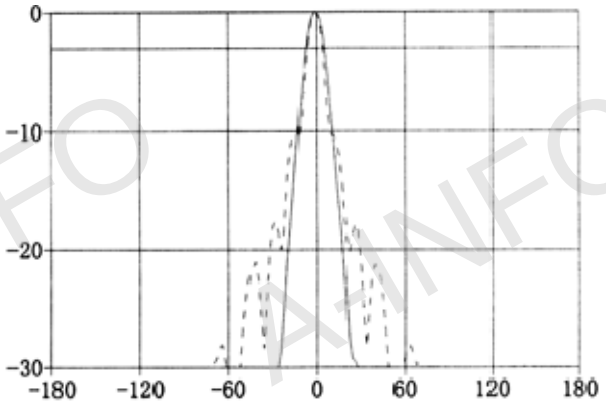

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 23.76 3dB Beamwidth (deg): 20.31

10.0GHz



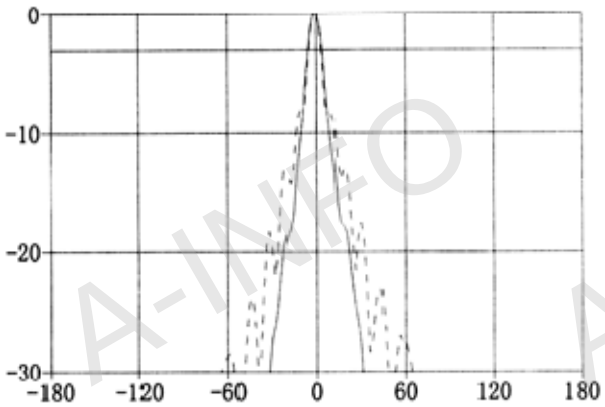

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 16.37 3dB Beamwidth (deg): 14.22

14.0GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 12.48 3dB Beamwidth (deg): 10.37

18.0GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 9.65 3dB Beamwidth (deg): 8.21



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# Multi Octave Horn Antenna 7.5~18.0GHz

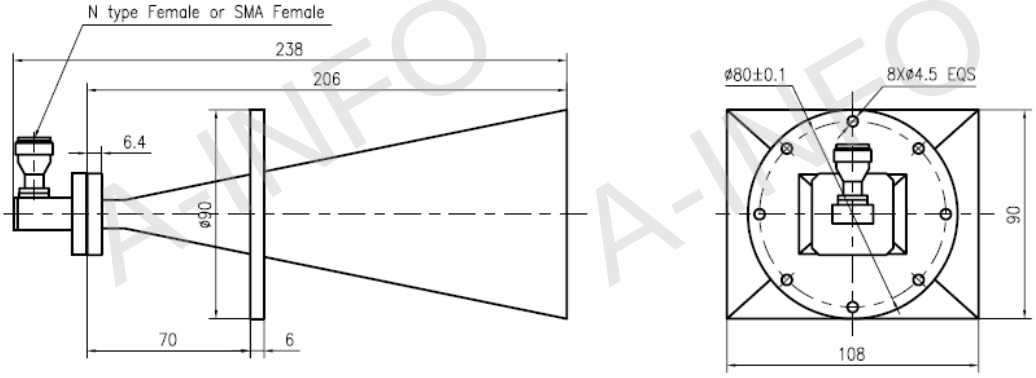
**P/N: LB-75180-20**



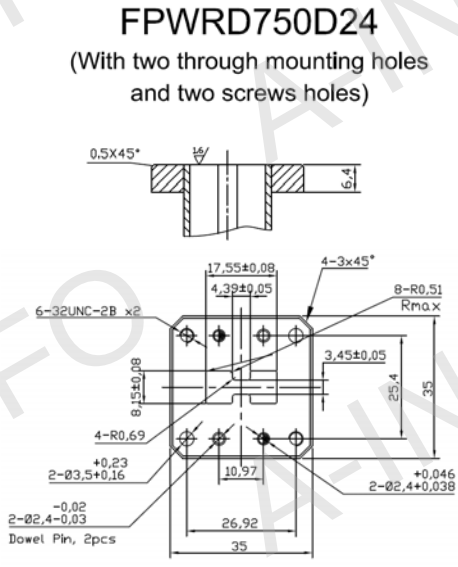
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 7.5-18.0 |
| Gain(dB) | 20 Typ. |
| Polarization | Linear |
| VSWR | 2.0 Max |
| Cross Pol. Isolation(dB) | 30 Typ. |
| Waveguide(A Type) | WRD750D24 |
| Adapter(C Type) | 750DRWCAN or 750DRWCAS |
| Connector(C Type) | N-Female or SMA-Female |
| Size(mm) | A Type: 108x90x206 /<br>C Type: 108x90x238 |
| Net Weight(Kg) | A Type: 0.4 Around /<br>C Type: 0.5 Around |

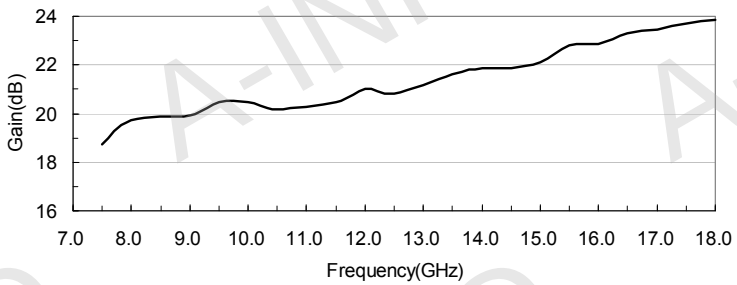
## Outline Drawing (Size: mm)




## Flange Drawing (Size: mm)




## Gain



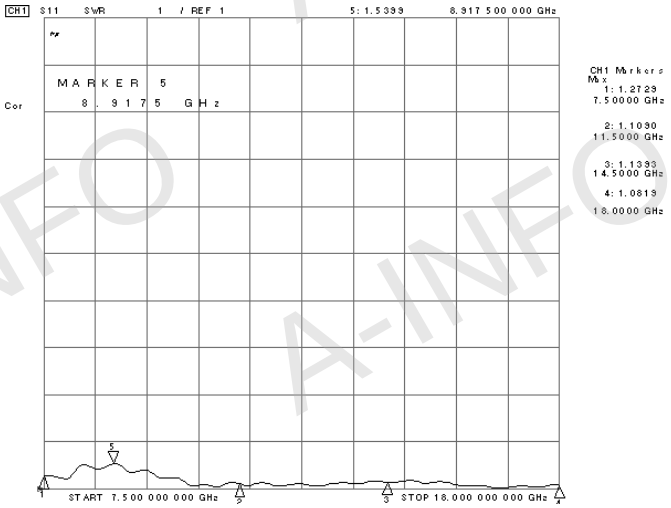



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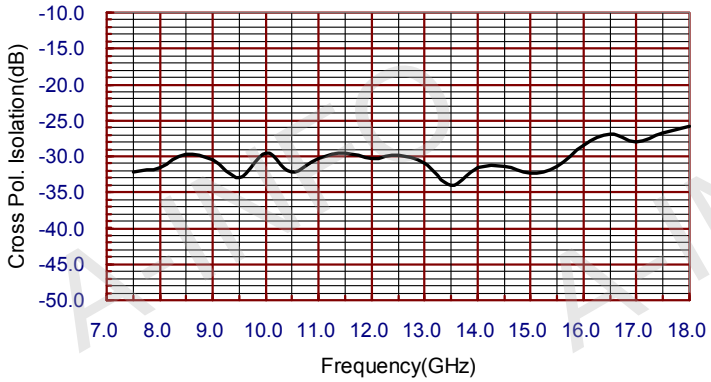
# Multi Octave Horn Antenna 7.5~18.0GHz(continued)

**P/N: LB-75180-20**

## VSWR

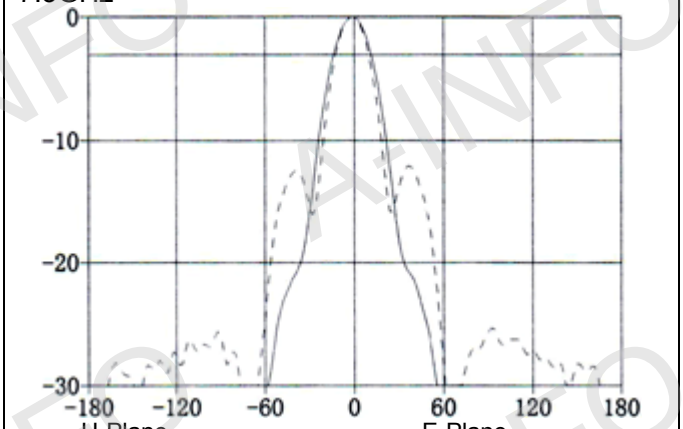



## Cross Pol. Isolation



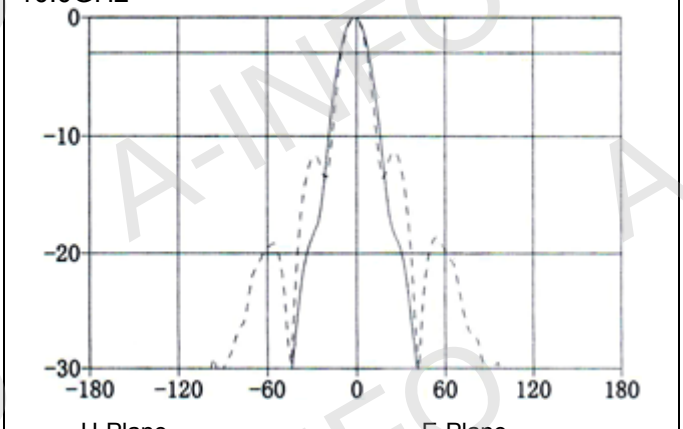

## Pattern

7.5GHz



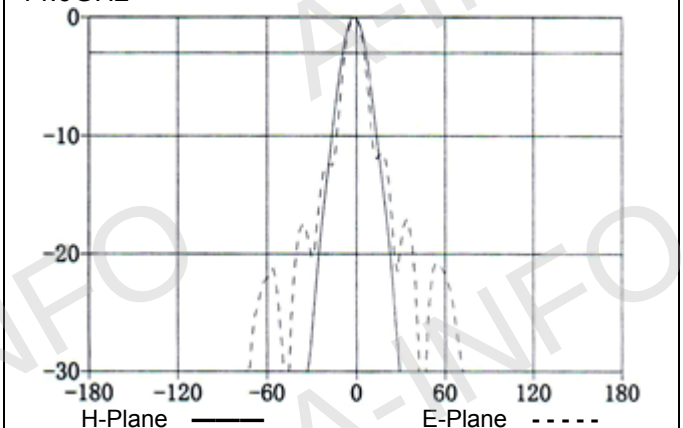

3dB Beamwidth (deg): 25.28 3dB Beamwidth (deg): 22.31

10.0GHz



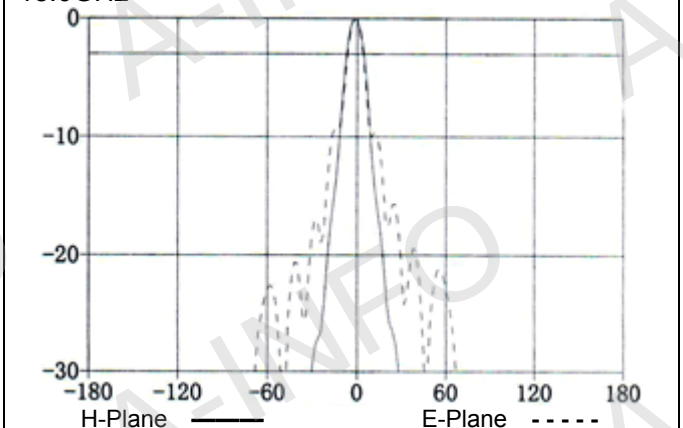

3dB Beamwidth (deg): 19.11 3dB Beamwidth (deg): 17.08

14.0GHz




3dB Beamwidth (deg): 15.57 3dB Beamwidth (deg): 12.69

18.0GHz



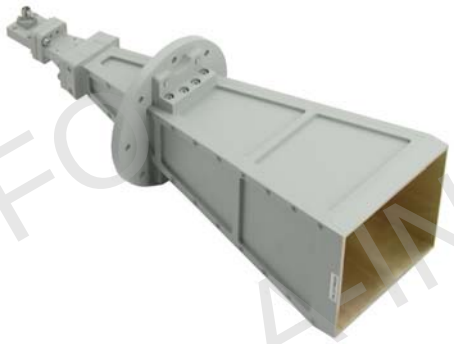

3dB Beamwidth (deg): 11.24 3dB Beamwidth (deg):10.03



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# Multi Octave Horn Antenna 18.0~40.0GHz

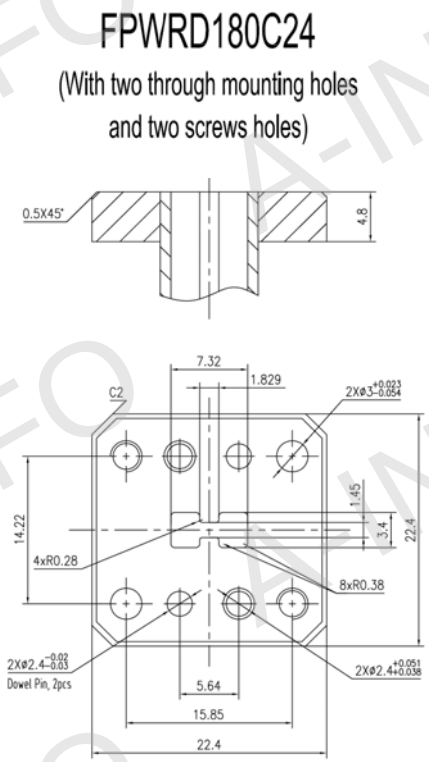
**P/N: LB-180400-25**



## Technical Specification

| | | |
|---|---|---|
| **Frequency Range(GHz)** | 18.0-40.0 | |
| **Gain(dBic)** | 25 Typ. | |
| **Polarization** | Linear | |
| **Cross Pol. Isolation(dB)** | 40 Typ. | |
| **VSWR** | 2.0:1 Max. | |
| **Output** | A Type: | FPWRD180C24 |
| | C Type: | 2.92mm (K)-Female or 2.4mm-Female |
| **Power Handling(W) CW** | 10 Max. | |
| **Material** | Cu | |
| **Size(mm)** | A Type: | 95x95x263 |
| | C Type: | 95x95x289 |
| **Net Weight(Kg)** | A Type: | 0.54 Around |
| | C Type: | 0.58 Around |

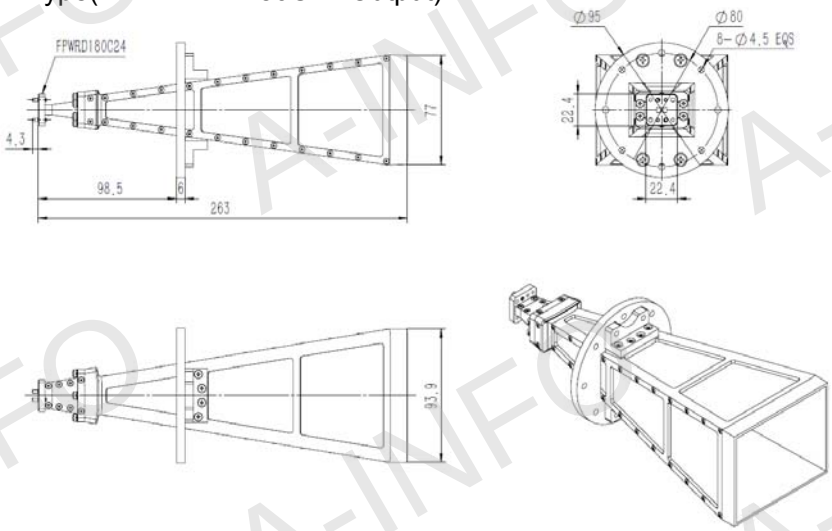
## Flange Drawing (Size: mm)



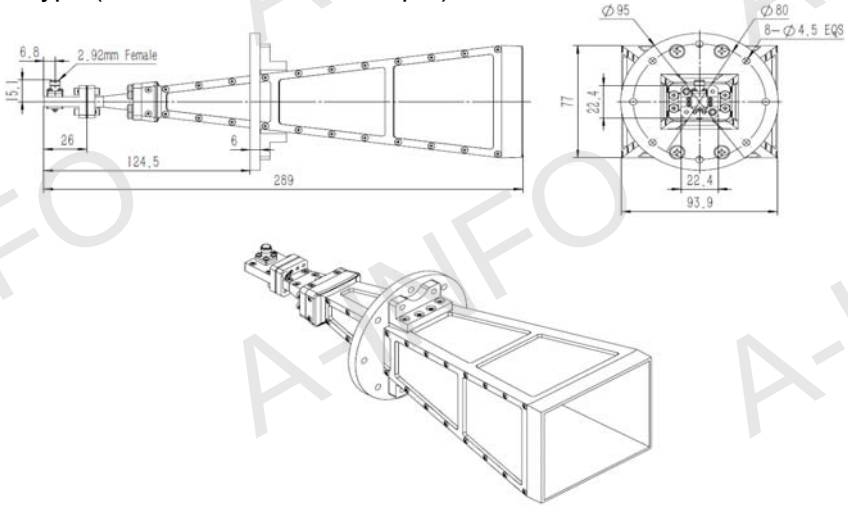

## Outline Drawing (Size: mm)

(For 2.4mm-Female output outline drawing, please contact A-INFO.)

A Type(W/ FPWRD180C24 Output)




C Type (W/ 2.92mm-Female Output)



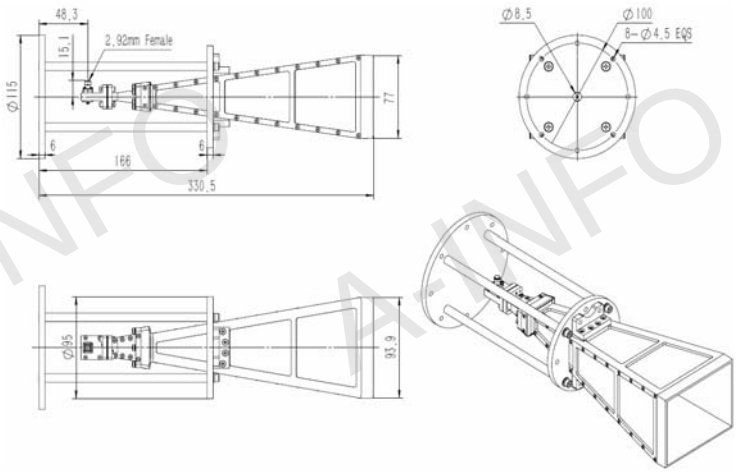



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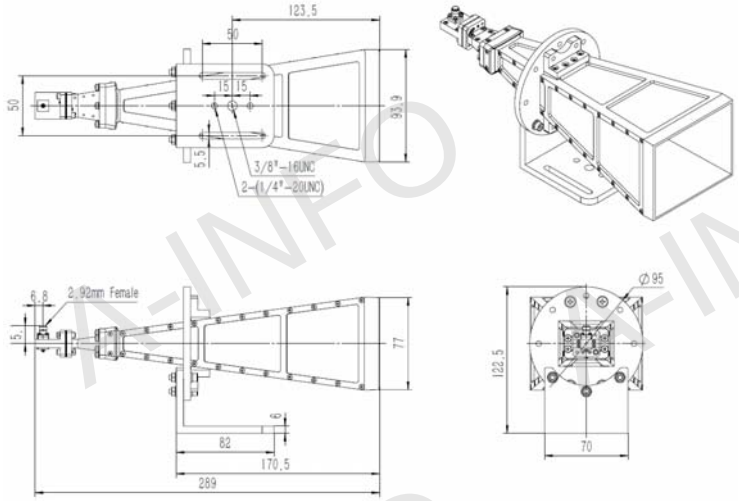
# *Multi Octave Horn Antenna 18.0~40.0GHz(continued)*

**P/N: LB-180400-25**

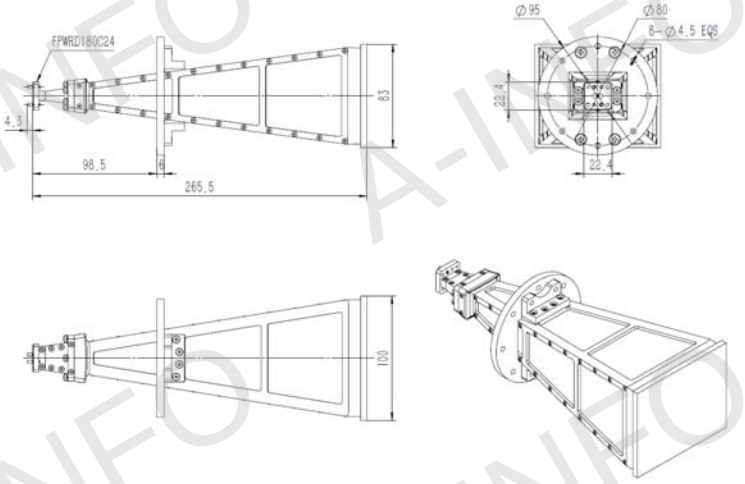
C Type (W/ 2.92mm-Female Output & Round Mounting Bracket)



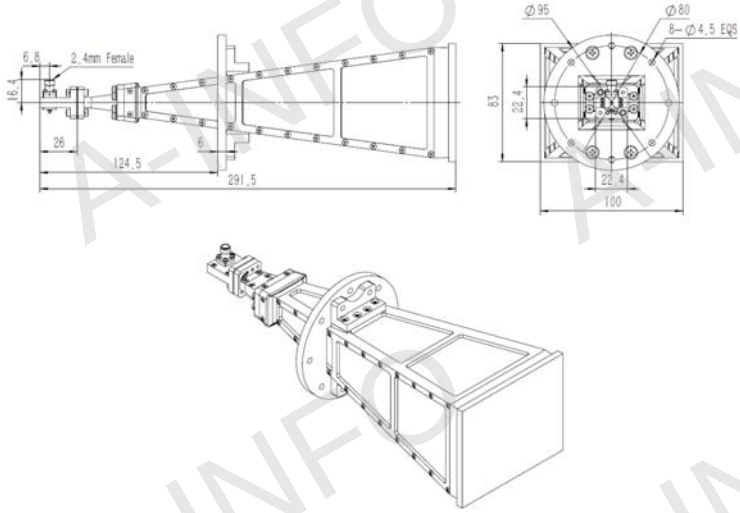

C Type (W/ 2.92mm-Female Output & L Type Mounting Bracket)



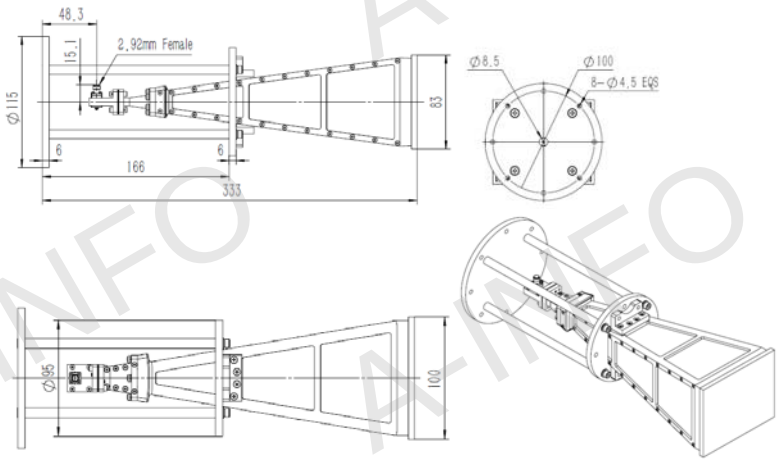

A Type (With Radome)



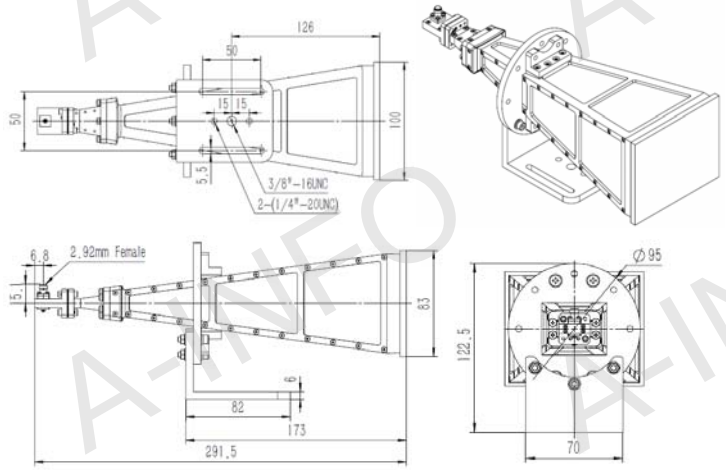

C Type (With 2.92mm-Female Output & Radome)




C Type (With 2.92mm-Female Output & Round Mounting Bracket & Radome)




C Type (With 2.92mm-Female Output & Round Mounting Bracket & Radome)



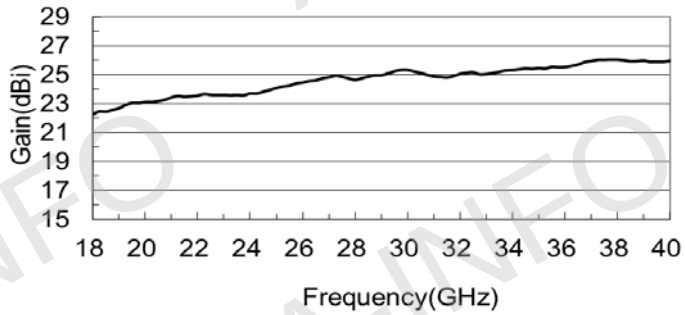


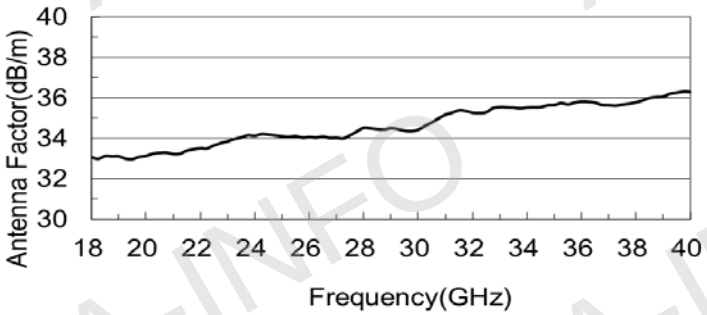

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# Multi Octave Horn Antenna 18.0~40.0GHz(continued)

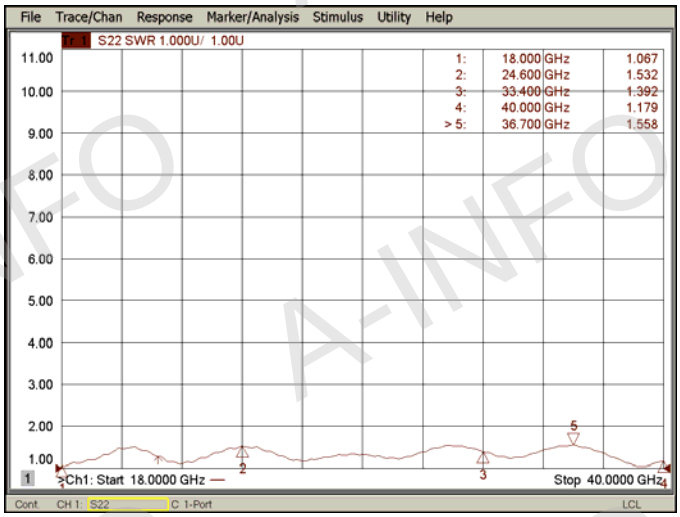
## P/N: LB-180400-25

### Gain & Antenna Factor

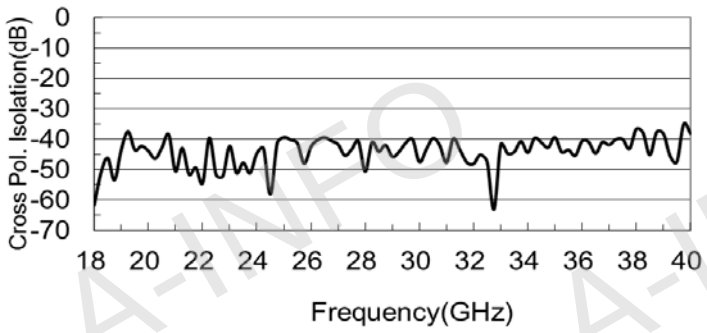


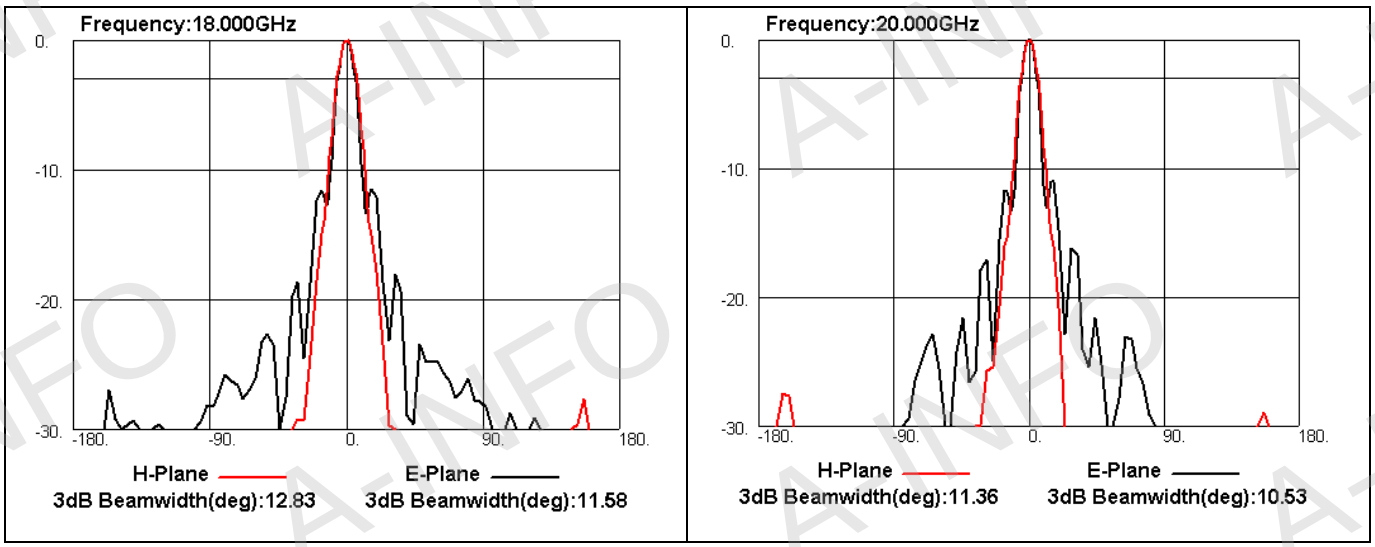

### VSWR




### Cross Pol. Isolation




### Pattern

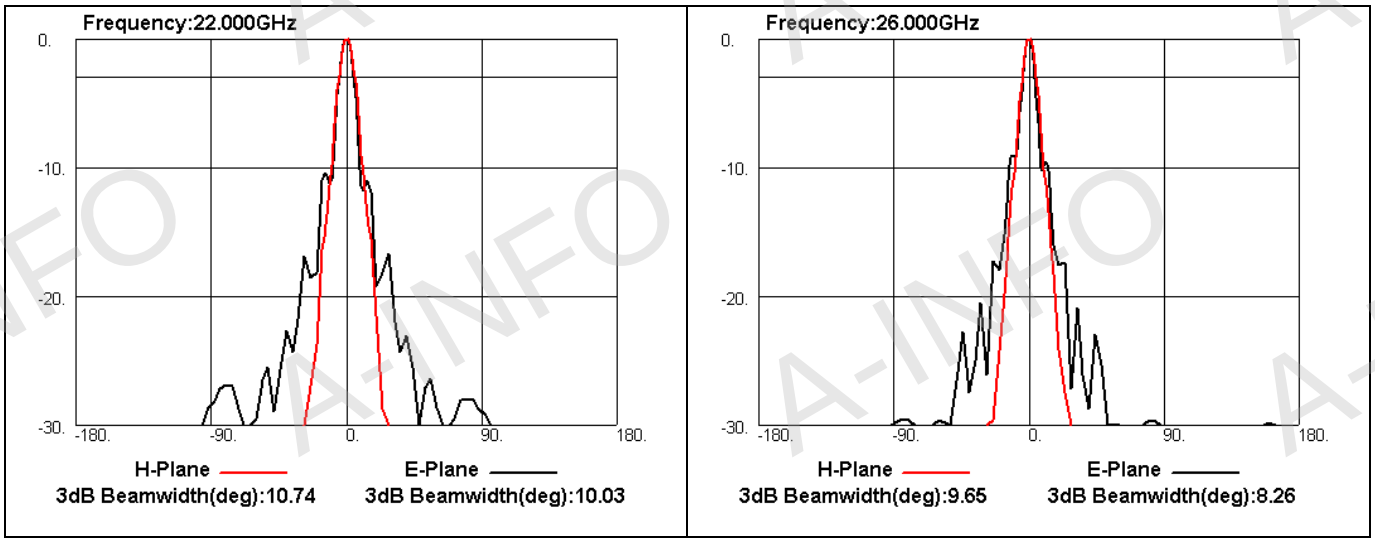





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Website: www.ainfoinc.com
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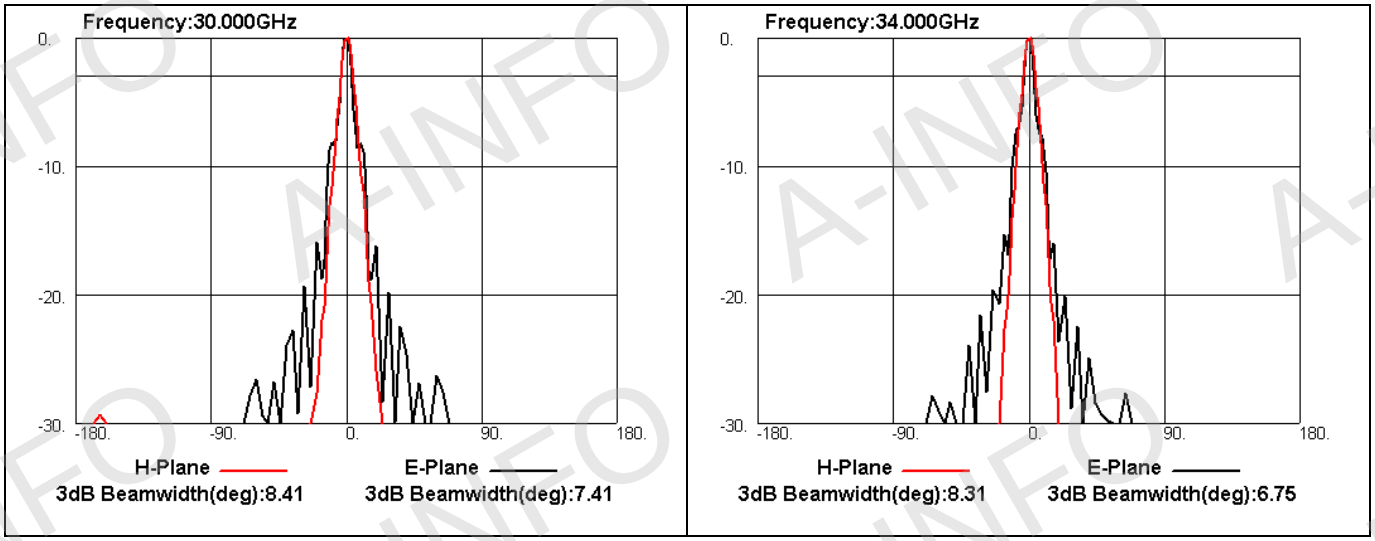
# Multi Octave Horn Antenna 18.0~40.0GHz(continued)

**P/N: LB-180400-25**



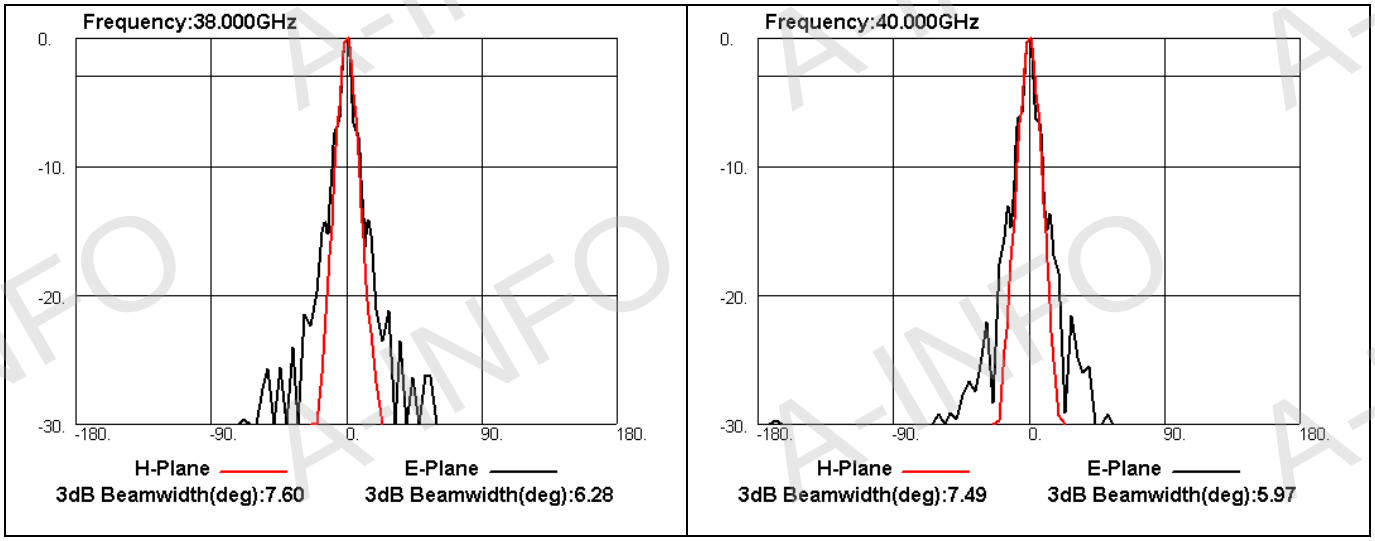


















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# Dual Polarization Horn Antenna





*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Dual Pol. Horn Antenna and download.*

| Model | Freq. (GHz) | Pol. | Gain (dB) Typ. | VSWR Typ. | Cross Pol. Isolation (dB) Min | Connector | Power Handling (W) CW Max | Size (mm) Approx. |
|---|---|---|---|---|---|---|---|---|
| LB-SJ-10100-SF | 1.0-10.0 | Dual | 10 | 1.5 | 20 | SMA-F | 50 | 204x204x211 |
| LB-SJ-10100-NF | 1.0-10.0 | Dual | 10 | 1.5 | 20 | N-F | 50 | 204x204x211 |
| LB-SJ-20180-SF | 2.0-18.0 | Dual | 15 | 2.0 | 20 | SMA-F | 25 | 112x112x187 |
| LB-SJ-40180-SF | 4.0-18.0 | Dual | 15 | 2.0 | 20 | SMA-F | 25 | 118x118x187 |
| LB-SJ-50500-2.4F | 5.0-50.0 | Dual | 12 | 1.5 | 20 | 2.4mm-F | 10 | 77.6x44.5x44.5 |
| LB-SJ-50500-1.85F | 5.0-50.0 | Dual | 12 | 1.5 | 20 | 1.85mm-F | 5 | 77.6x44.5x44.5 |
| LB-SJ-60180-SF | 6.0-18.0 | Dual | 12 | 2.0 | 20 | SMA-F | 25 | 43.1x43.1x79.5 |
| LB-SJ-60245-SF | 6.0-24.5 | Dual | 14 | 2.0 | 20 | SMA-F | 25 | 43x43x79.5 |
| LB-SJ-180400-KF | 18.0-40.0 | Dual | 15 | 2.0 | 20 | 2.92mm(K)-F | 10 | 34.9x34.9x61.5 |
| LB-SJ-180400-2.4F | 18.0-40.0 | Dual | 15 | 2.0 | 20 | 2.4mm-F | 10 | 34.9x34.9x61.5 |



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# Dual Polarization Horn Antenna 1.0~10.0GHz

**P/N: LB-SJ-10100**

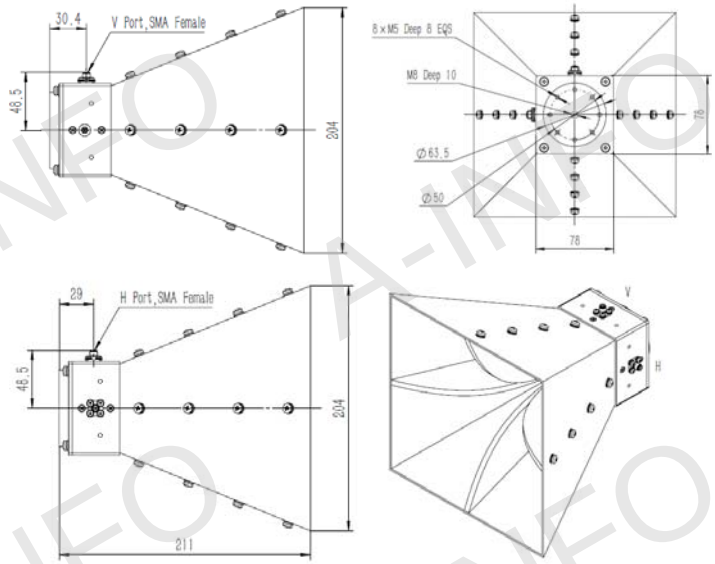


## Technical Specification

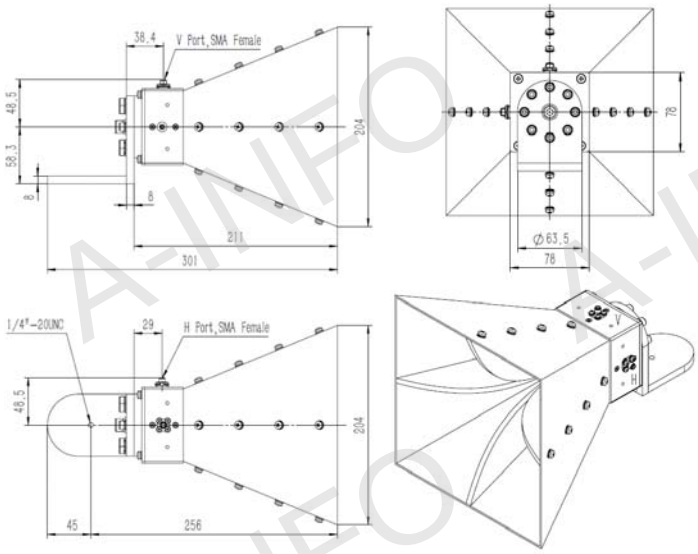
| | |
|---|---|
| Frequency Range(GHz) | 1 - 10 |
| Gain(dBi) | 10 Typ. |
| Polarization | Dual Pol. |
| 3dB Beamwidth(deg) | 80-10 |
| Cross Pol. Isolation(dB) | 18 Min. |
| Port to Port Isolation(dB) | 20 Min |
| VSWR | 1.5 :1 Typ. / 2.5 :1 Max |
| Output | SMA-Female/N-Female |
| Power Handling(W) CW | SMA-Female: 50 Max. CW |
| | N-Female: 50 Max. CW |
| Material | Al |
| Size(mm) | 204 x 204 x 211 |
| Net Weight(Kg) | 1.7 Around |

**Outline Drawing (Size: mm)** For N type Female output outline drawing, please contact A-INFO.

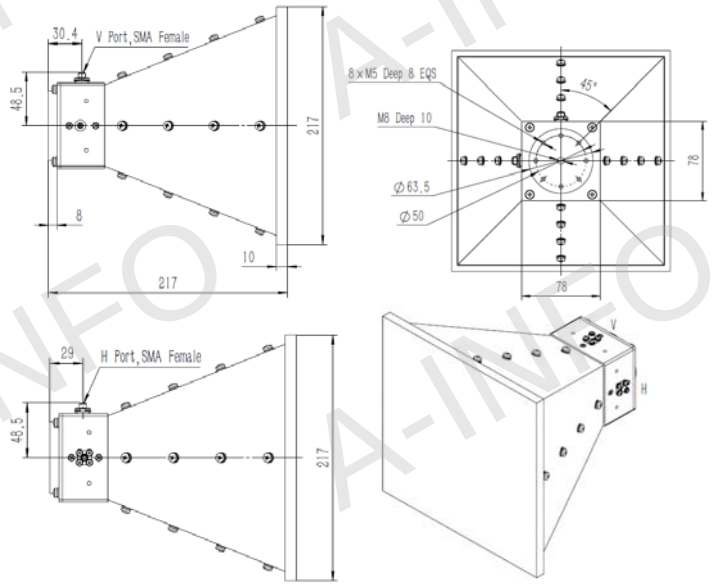
SMA Female Output



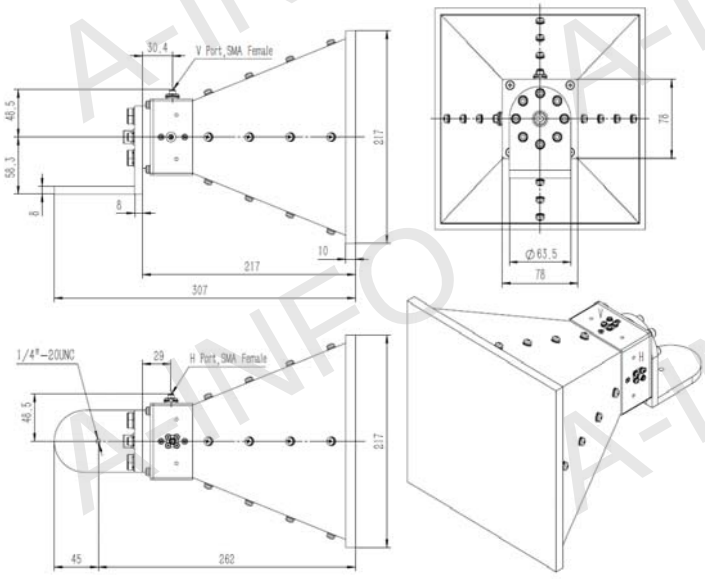

SMA Female Output with L type mounting bracket




SMA Female Output with Radome




SMA-F Output w/ L type mounting bracket & Radome



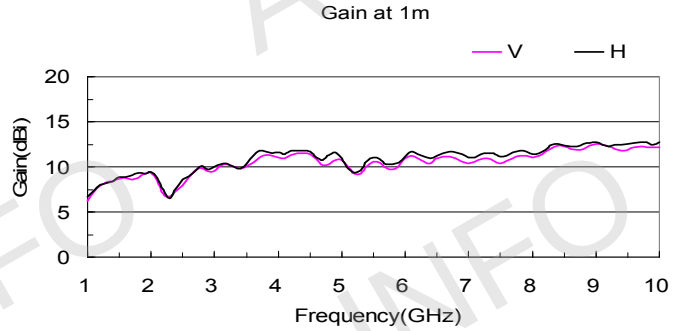


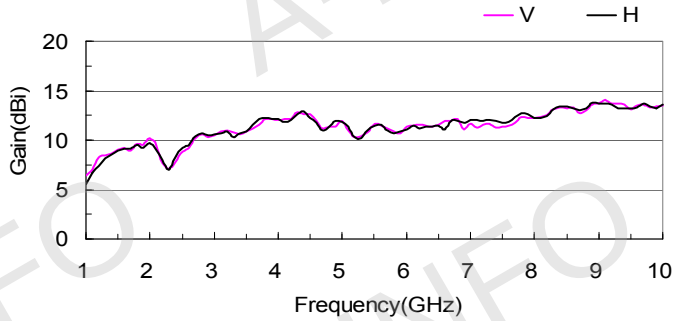

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# Dual Pol. Horn Antenna 1.0-10.0GHz(continued)

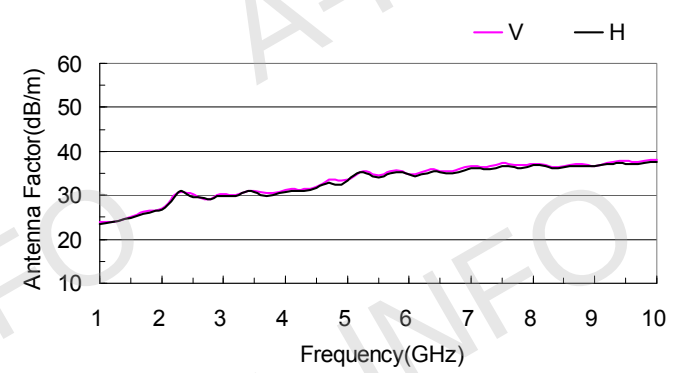
**P/N: LB-SJ-10100**

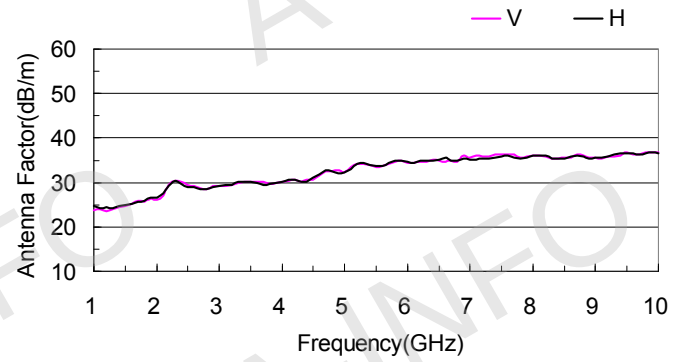
## Gain



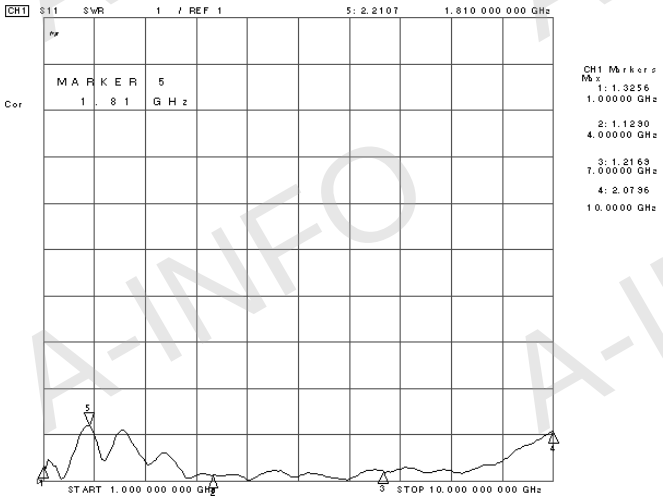




## Antenna Factor

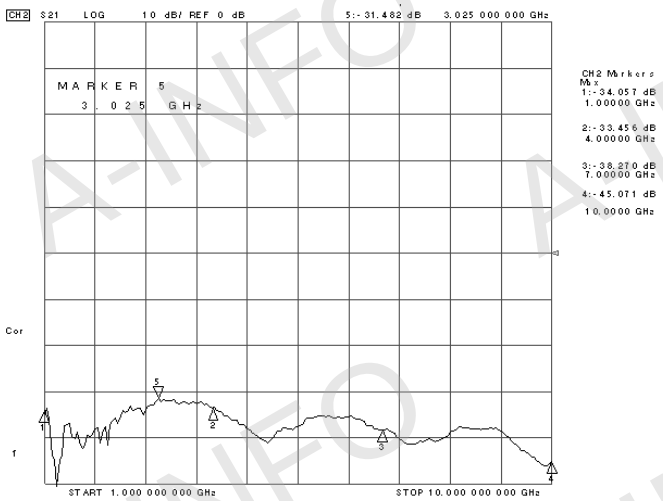


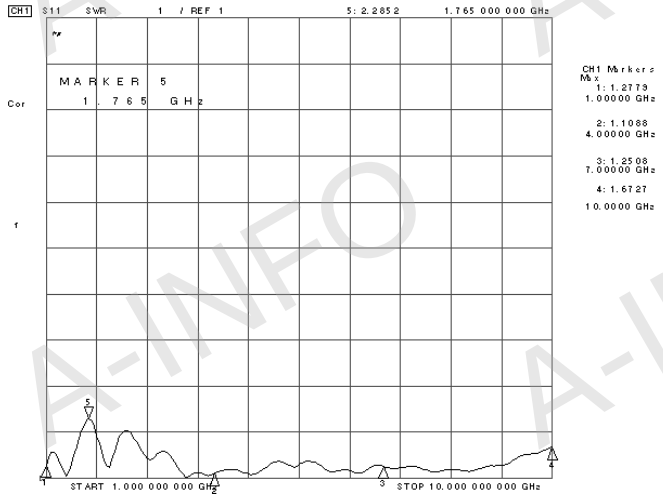

## VSWR(Port-V)




## VSWR(Port-H)




## Port to Port Isolation



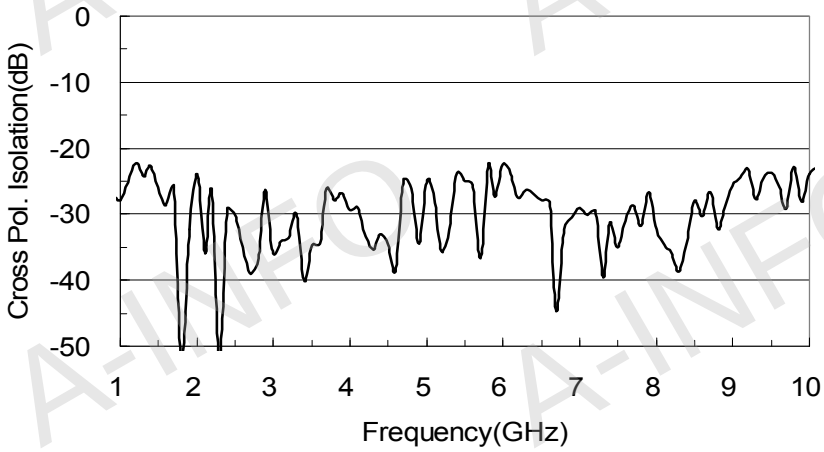



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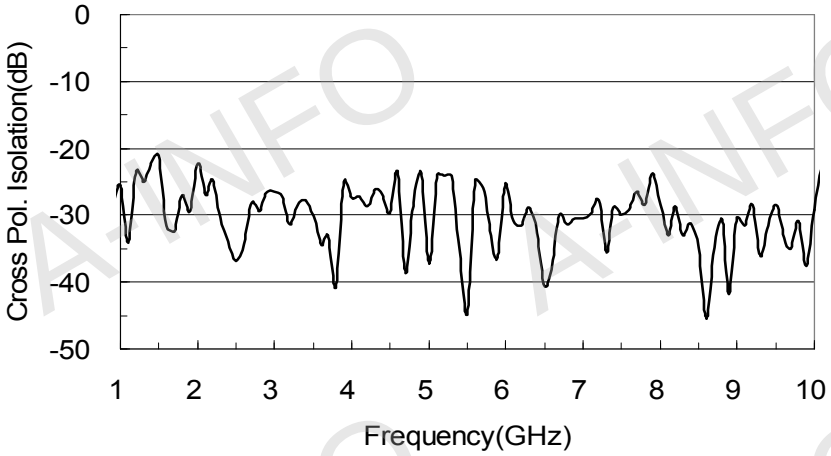
# Dual Pol. Horn Antenna 1.0-10.0GHz(continued)

**P/N: LB-SJ-10100**

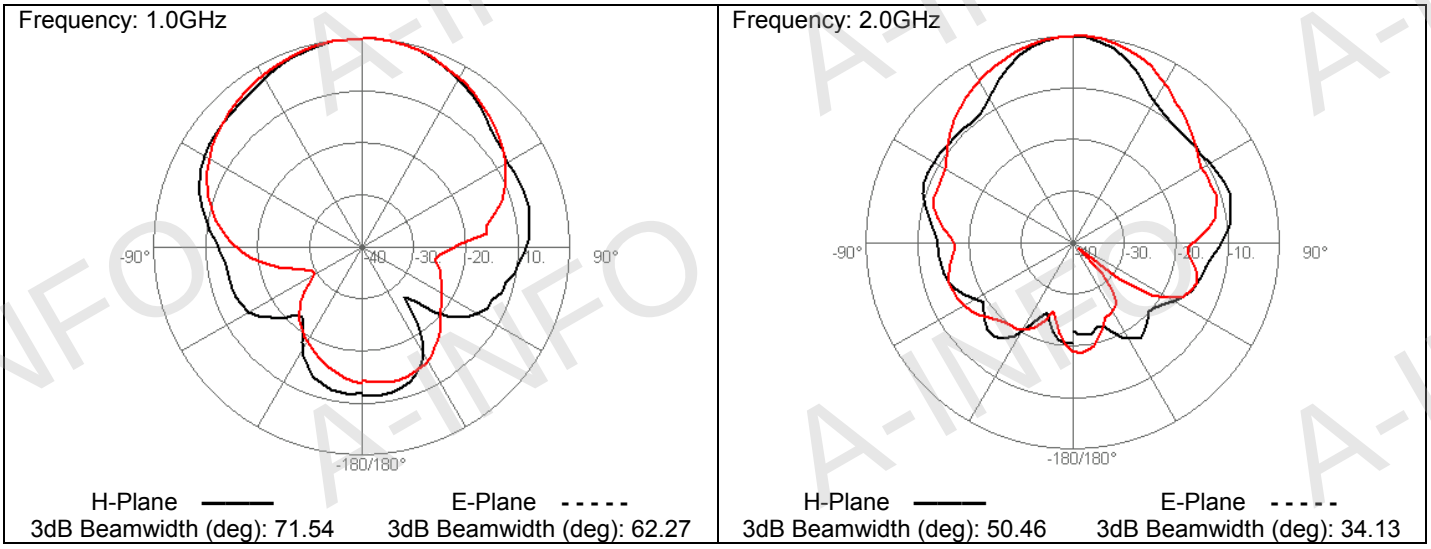
## Cross Polarization Isolation(Port-V)




## Cross Polarization Isolation(Port-H)




## Pattern





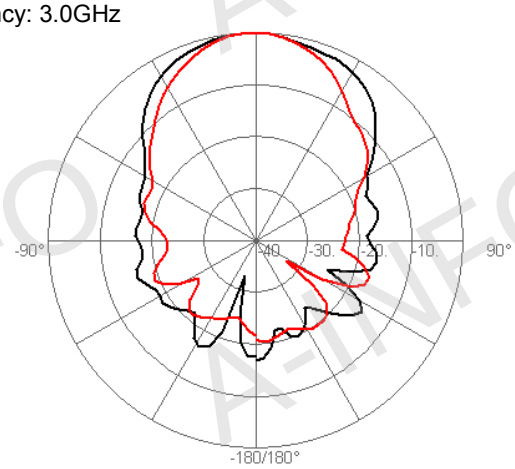

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# Dual Pol. Horn Antenna 1.0-10.0GHz(continued)

**P/N: LB-SJ-10100**

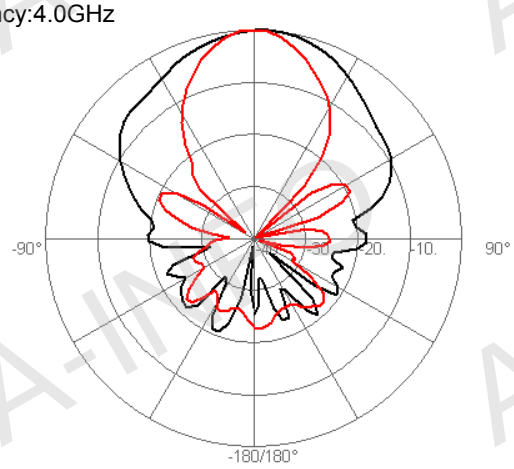
## Pattern

Frequency: 3.0GHz



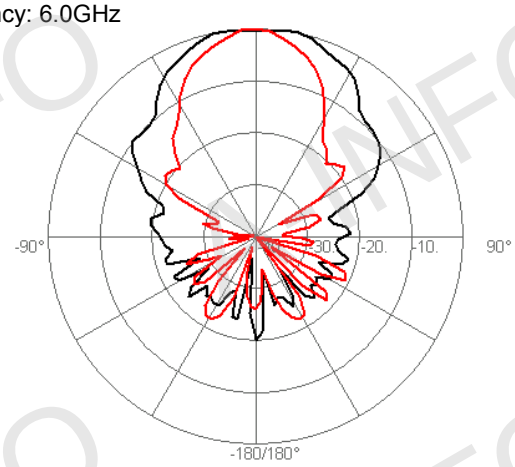

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 39.25 3dB Beamwidth (deg): 59.64

Frequency:4.0GHz



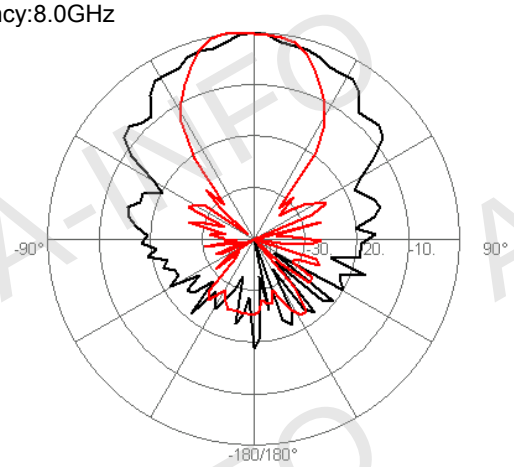

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 26.23 3dB Beamwidth (deg): 48.61

Frequency: 6.0GHz



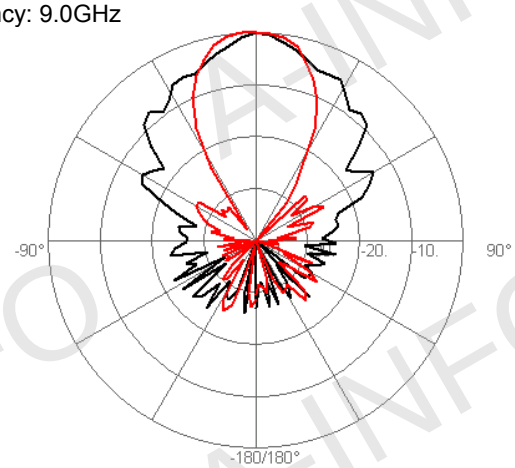

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 26.50 3dB Beamwidth (deg): 50.08

Frequency:8.0GHz



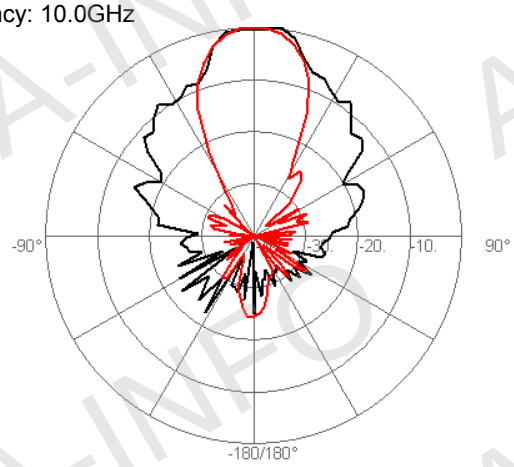

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 34.14 3dB Beamwidth (deg): 42.73

Frequency: 9.0GHz




H-Plane ——— H-Plane ———
3dB Beamwidth (deg): 28.22 3dB Beamwidth (deg): 23.87

Frequency: 10.0GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 24.94 3dB Beamwidth (deg): 25.20



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# Dual Polarization Horn Antenna 2.0~18.0GHz

**P/N: LB-SJ-20180**

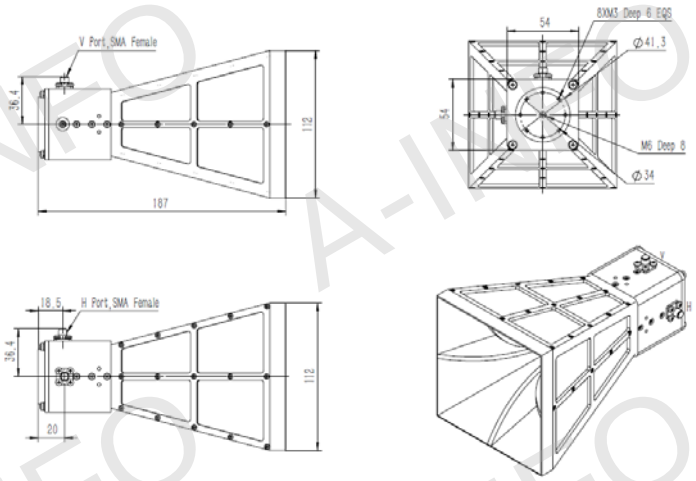


## Technical Specification

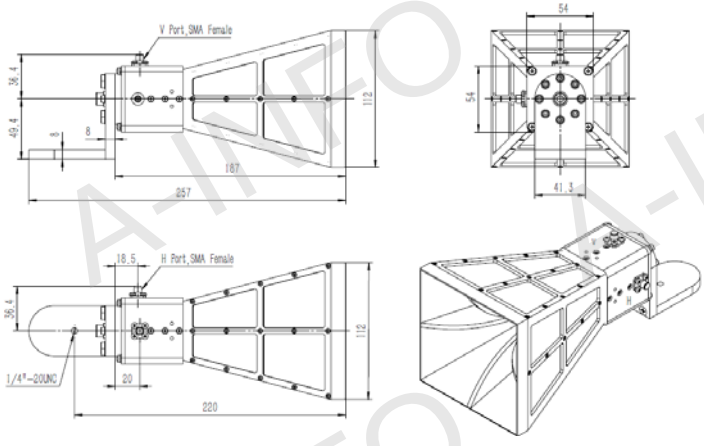
| | |
|---|---|
| Frequency Range(GHz) | 2 - 18 |
| Gain(dB) | 15 Typ. |
| Polarization | Dual Pol. |
| VSWR | 2.0:1 Typ. |
| | 3.0:1 Max |
| 3dB Beamwidth(deg) | 80-10 |
| Port to Port Isolation(dB) | 30 Min |
| Cross Pol. Isolation(dB) | 20 Min |
| Connector | SMA -Female |
| Power Handling(W) CW | 25 Max |
| Size(mm) | 112 x 112 x 187 |
| Net Weight(Kg) | 0.68 Around |

## Outline Drawing (Size:mm)

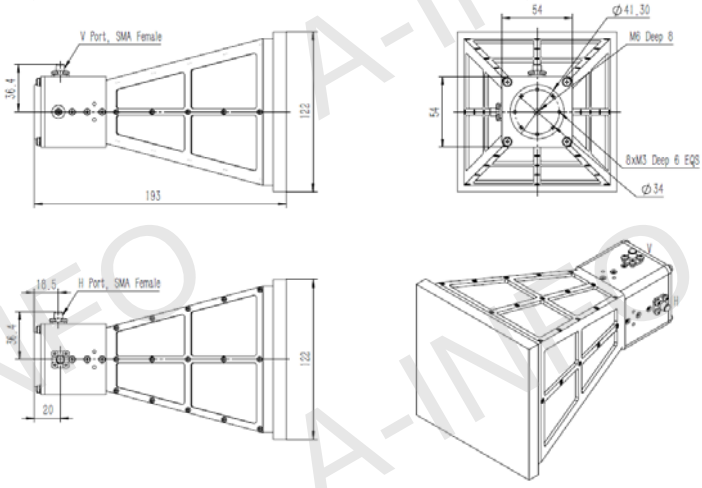
With SMA Female Output



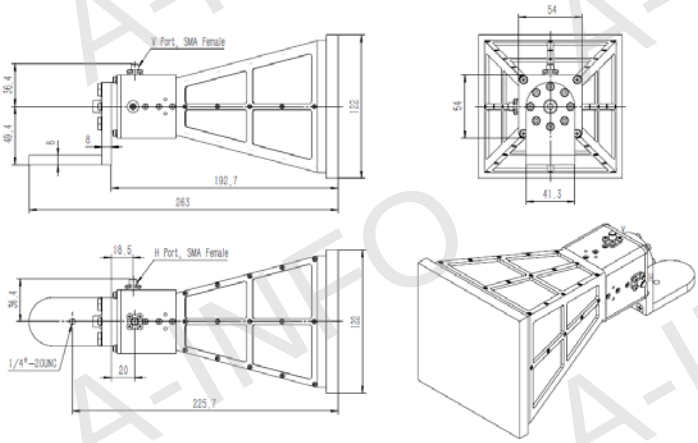

With SMA Female Output & L Type Mounting Bracket




With SMA Female Output & Radome



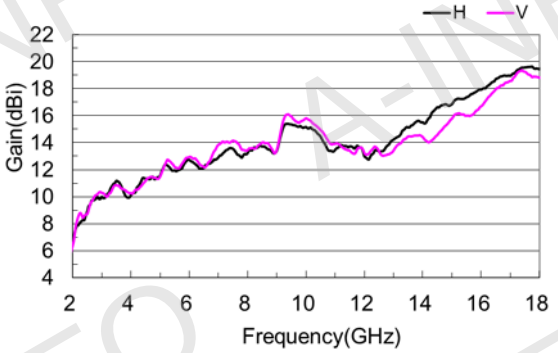

With SMA Female Output, L Type Mounting Bracket & Radome



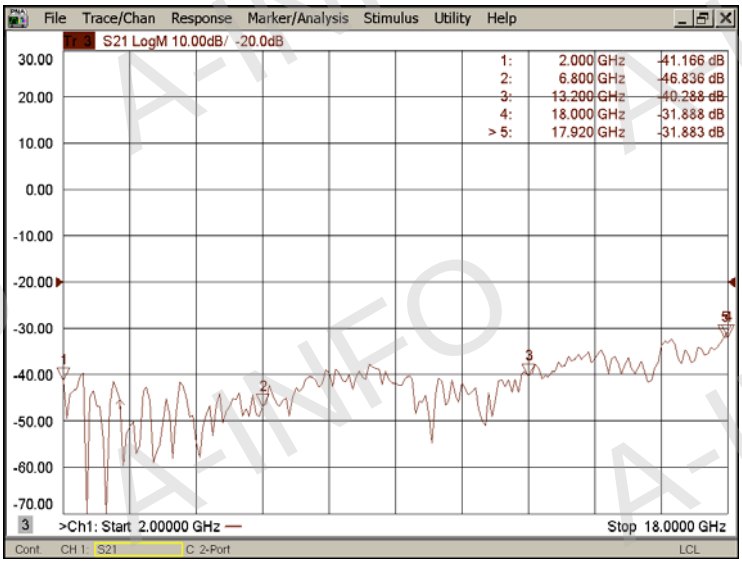



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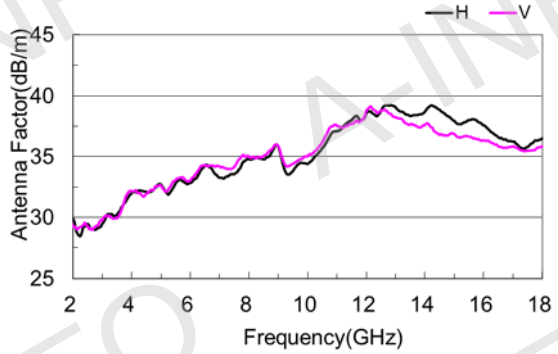
## Gain



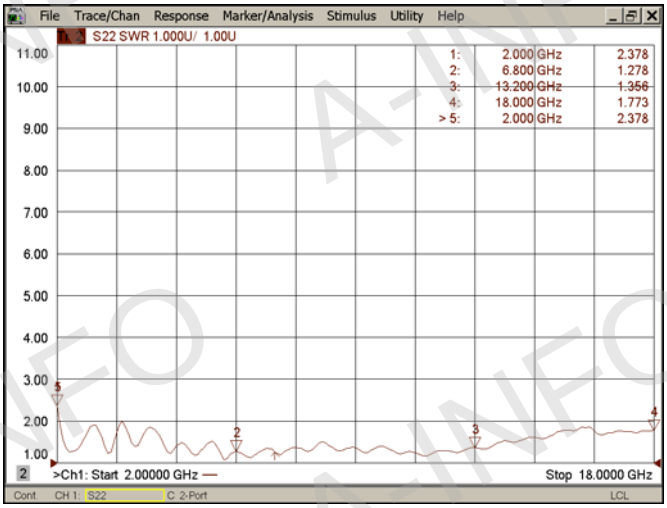

## Port to Port Isolation



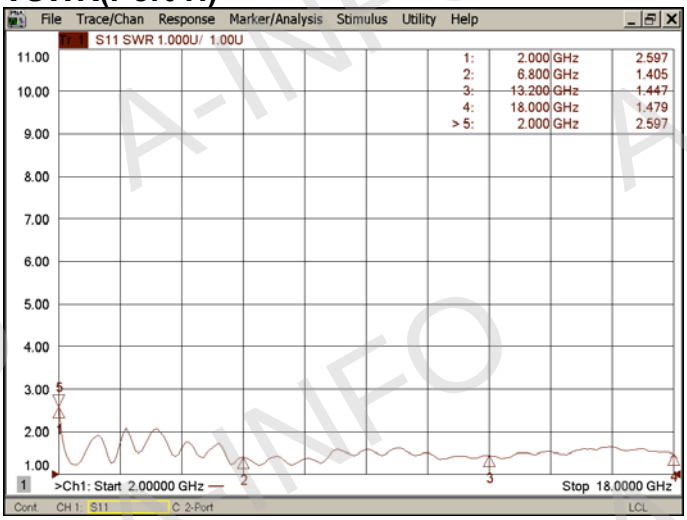

## Antenna Factor



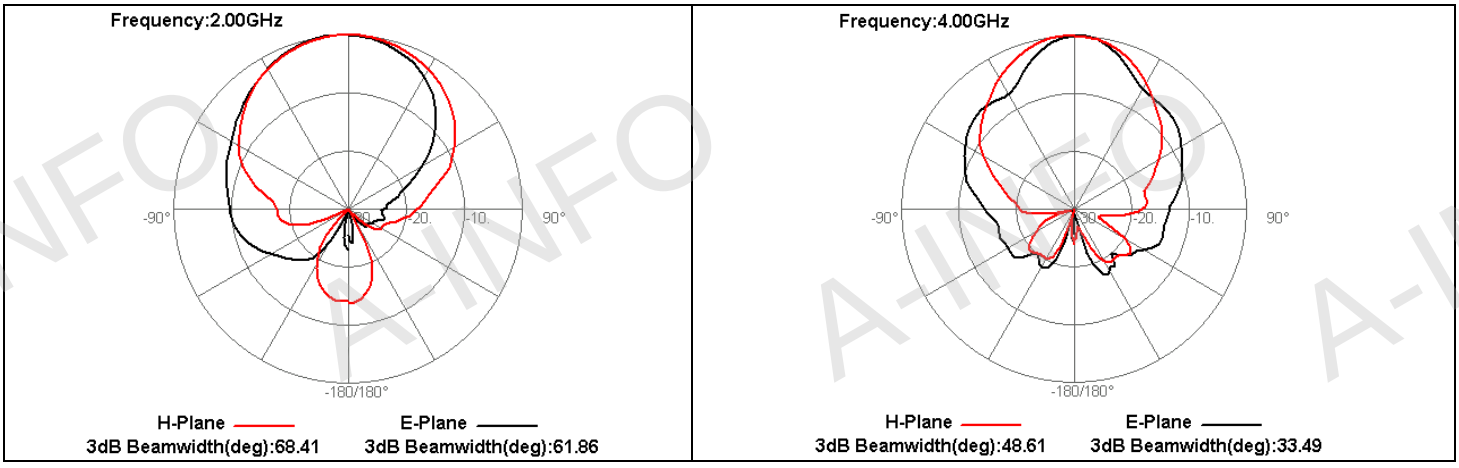

## VSWR(Port-V)




## VSWR(Port-H)




## Pattern



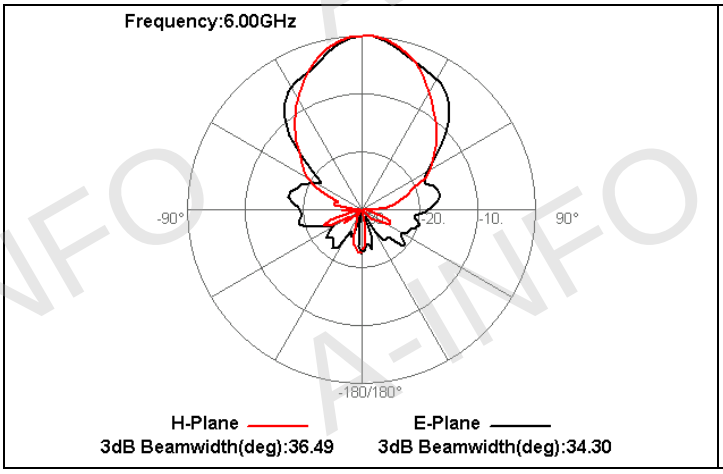


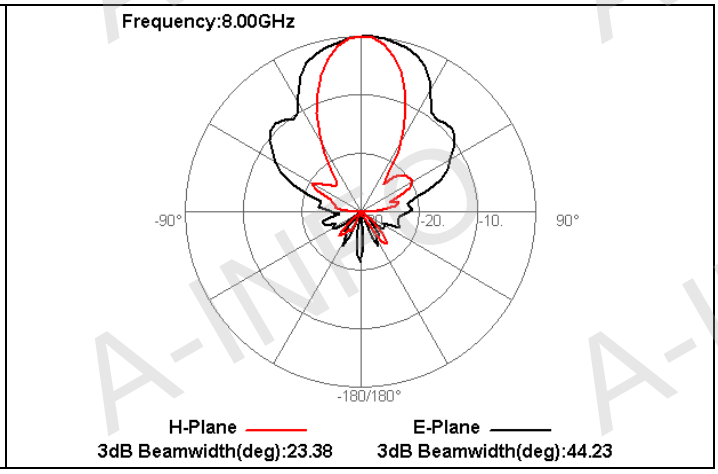

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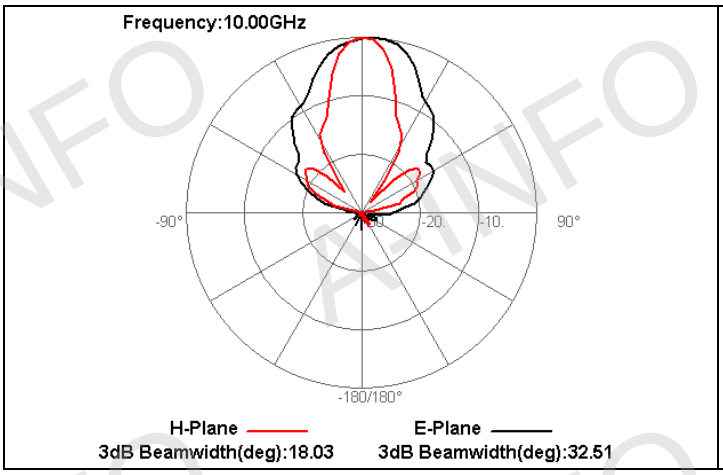
# Dual Pol. Horn Antenna 2.0-18.0GHz(continued)

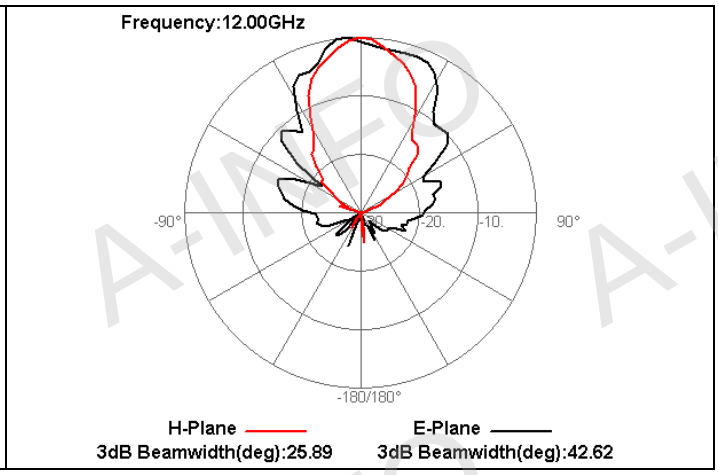
**P/N: LB-SJ-20180**

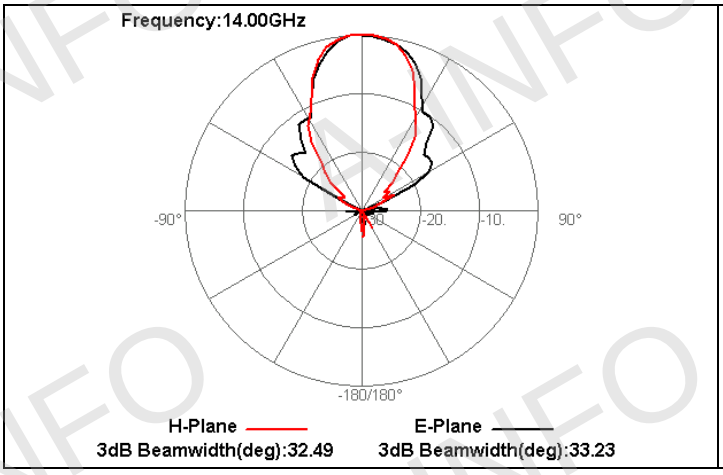
## Pattern

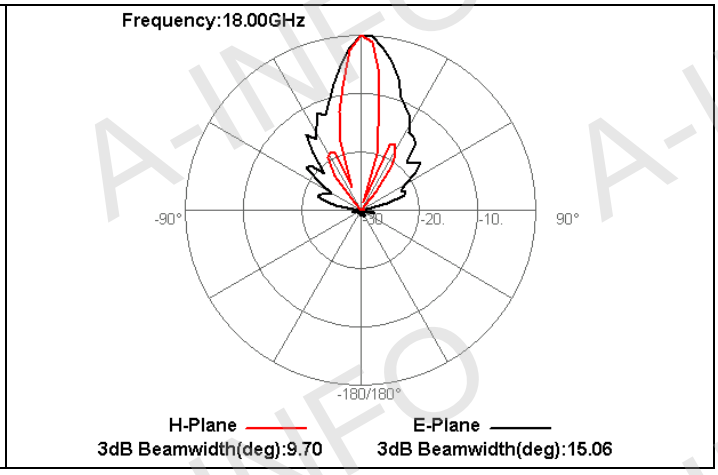


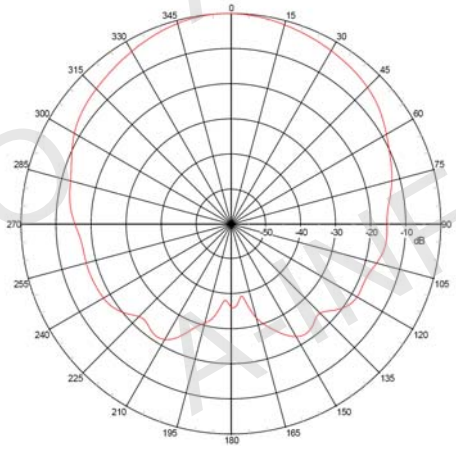
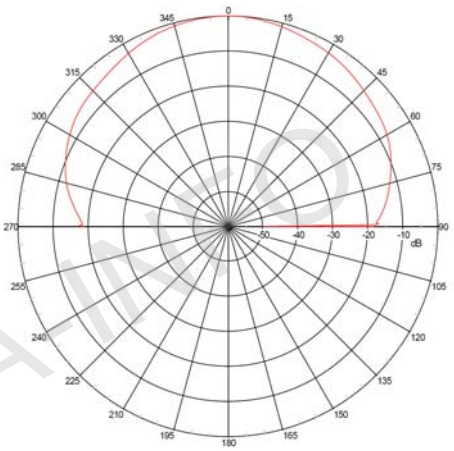
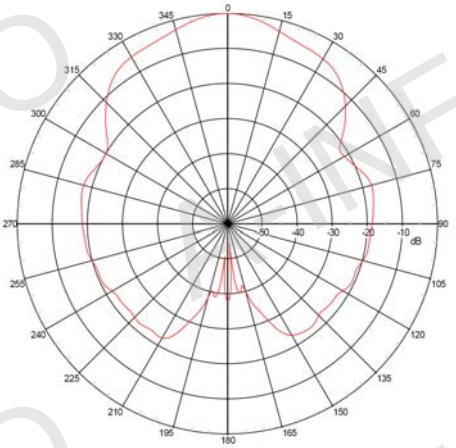
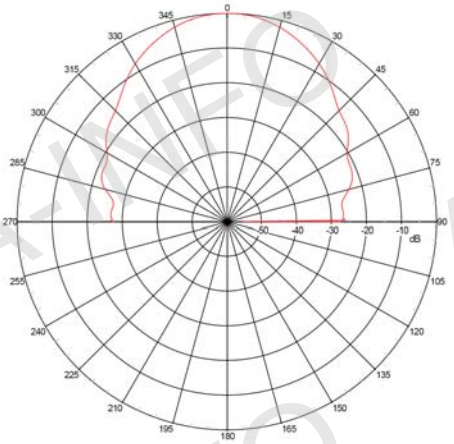
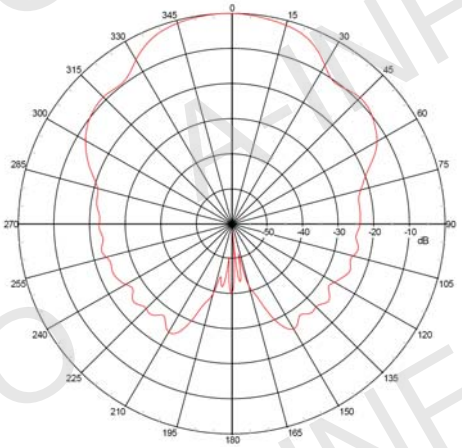
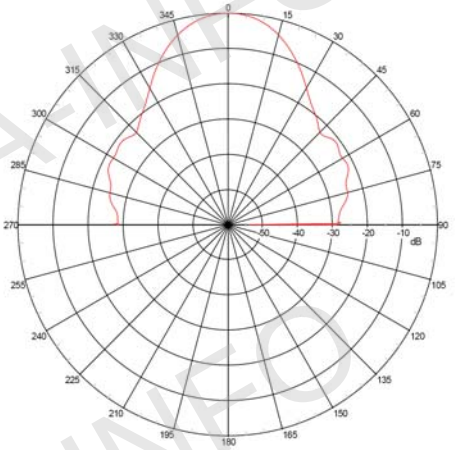



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# Dual Pol. Horn Antenna 2.0-18.0GHz(continued)

**P/N: LB-SJ-20180**

**Pattern (Tested by NSI)**

| | |
|---|---|
| Frequency: 2GHz H-Plane | E-Plane |
|  |  |
| Frequency: 6GHz H-Plane | E-Plane |
|  |  |
| Frequency: 8GHz H-Plane | E-Plane |
|  |  |

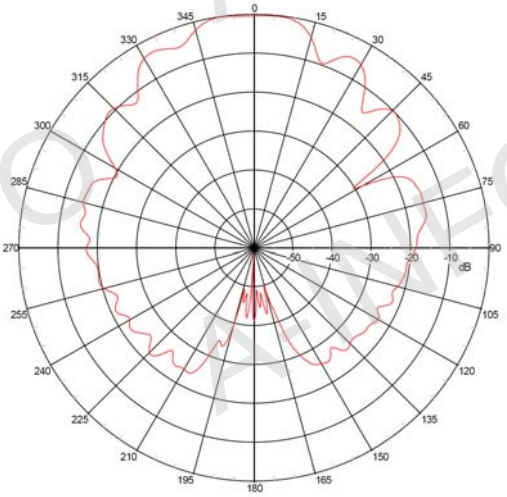
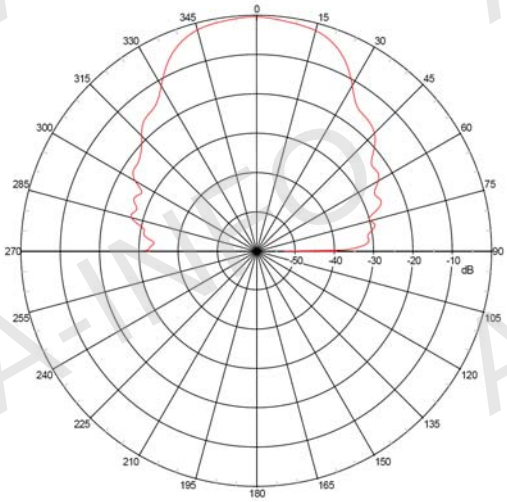
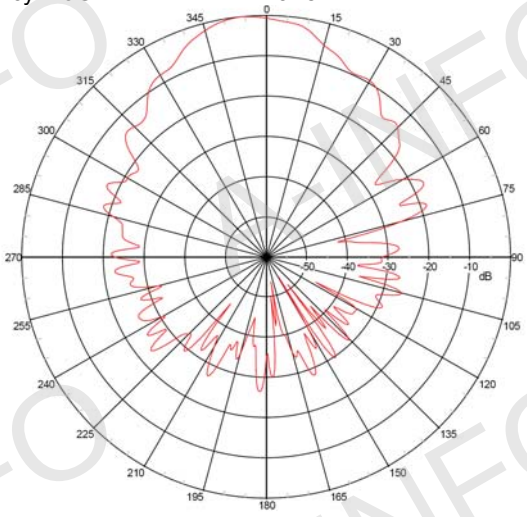
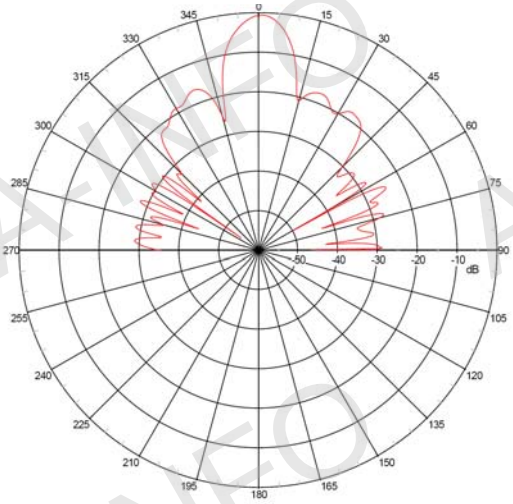
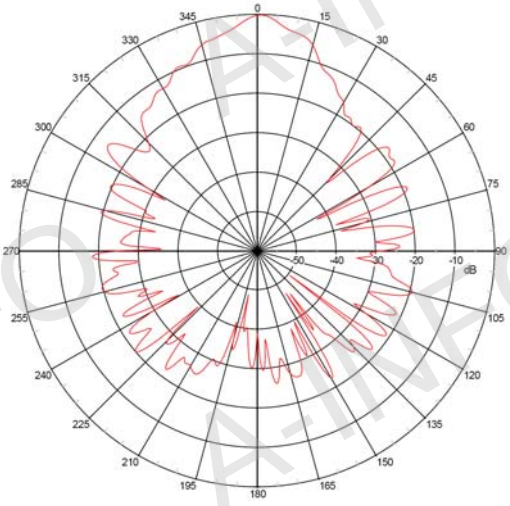
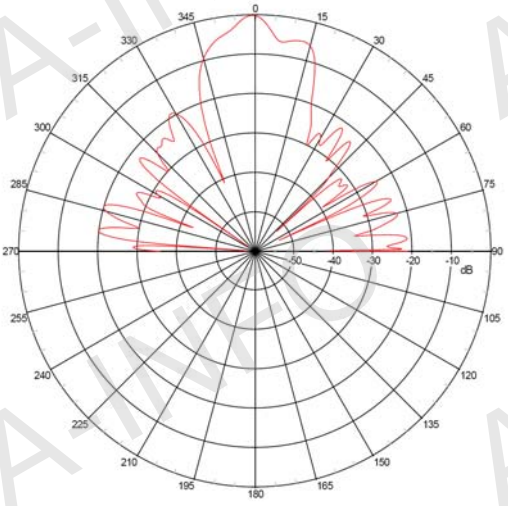


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# Dual Pol. Horn Antenna 2.0-18.0GHz(continued)

**P/N: LB-SJ-20180**

**Pattern (Tested by NSI)**

| | |
|---|---|
| Frequency: 12GHz H-Plane | E-Plane |
|  |  |
| Frequency: 16GHz H-Plane | E-Plane |
|  |  |
| Frequency: 18GHz H-Plane | E-Plane |
|  |  |



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# Broadband Dual Polarization Horn Antenna 5.0~50.0GHz

**P/N: LB-SJ-50500**



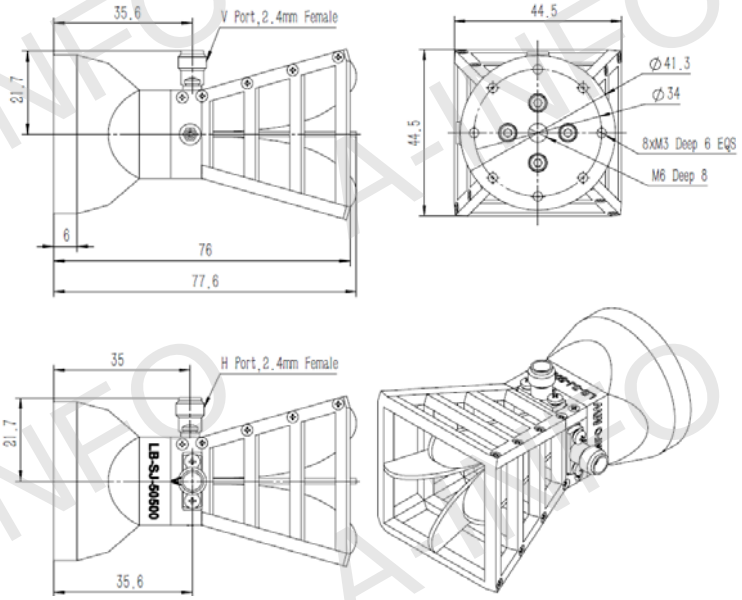
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 5 - 50 |
| Gain(dBi) | 12 Typ. |
| Polarization | Dual Pol. |
| 3dB Beamwidth(deg) | 101-14 |
| Cross Pol. Isolation(dB) | 30 Typ.<br>20 Min. |
| Port to Port Isolation(dB) | 20 Min. |
| VSWR | 1.5:1 Typ.<br>3.0:1 Max. |
| Connector | 2.4mm-Female/<br>1.85mm-Female |
| Power Handling(W) CW | 2.4mm-Female: 10 Max.<br>1.85mm-Female: 5 Max. |
| Material | Al |
| Size(mm) | 77.6 x 44.5 x 44.5 |
| Net Weight(Kg) | 0.1 Around |

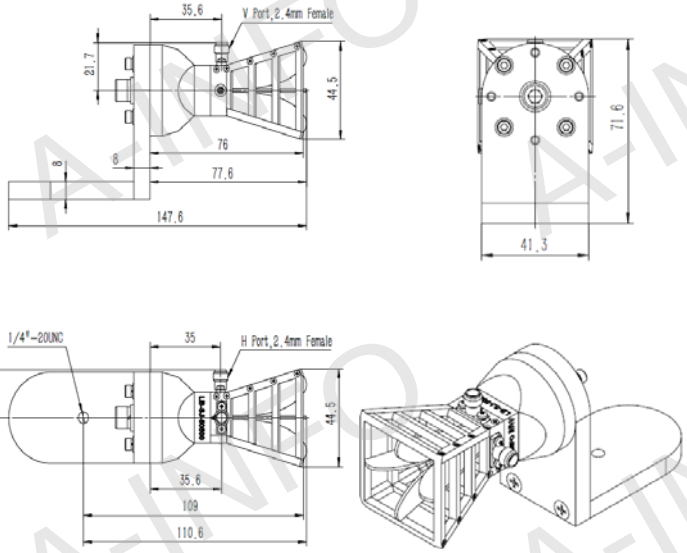
## Outline Drawing (Size: mm)

For 1.85mm Female output outline drawing, please contact A-INFO.

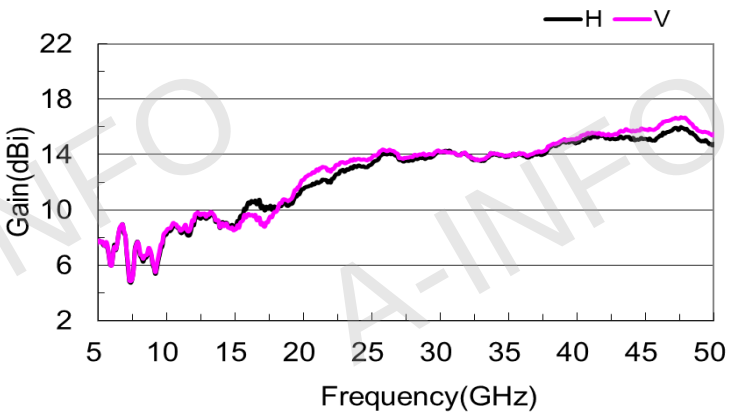
2.4mm Female Output

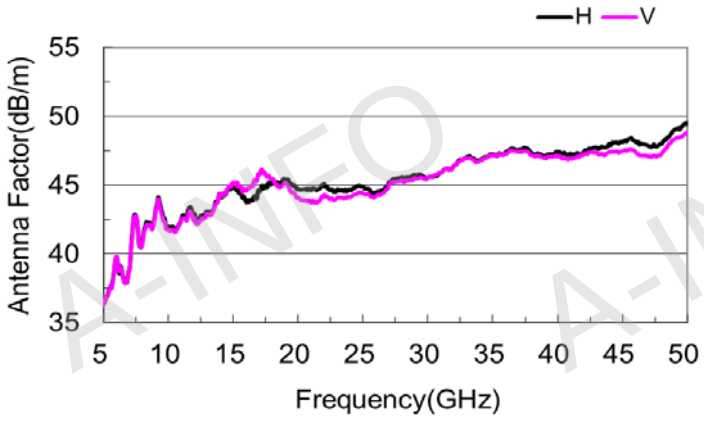



2.4mm Female Output w/ L type mounting bracket




## Gain and Antenna Factor






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# Broadband Dual Pol. Horn Antenna 5.0~50.0GHz(continued)

**P/N: LB-SJ-50500**

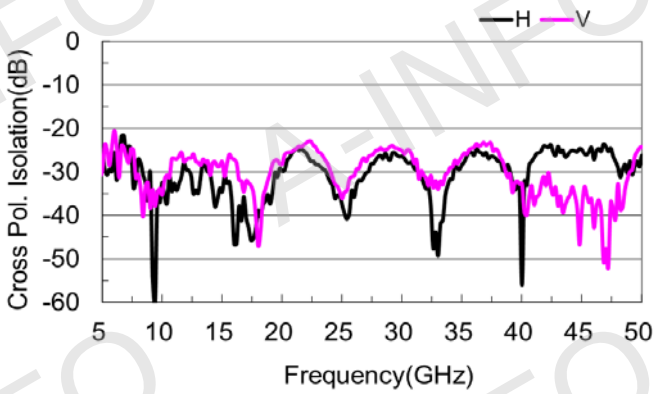
## VSWR(Port-V)




## VSWR(Port-H)



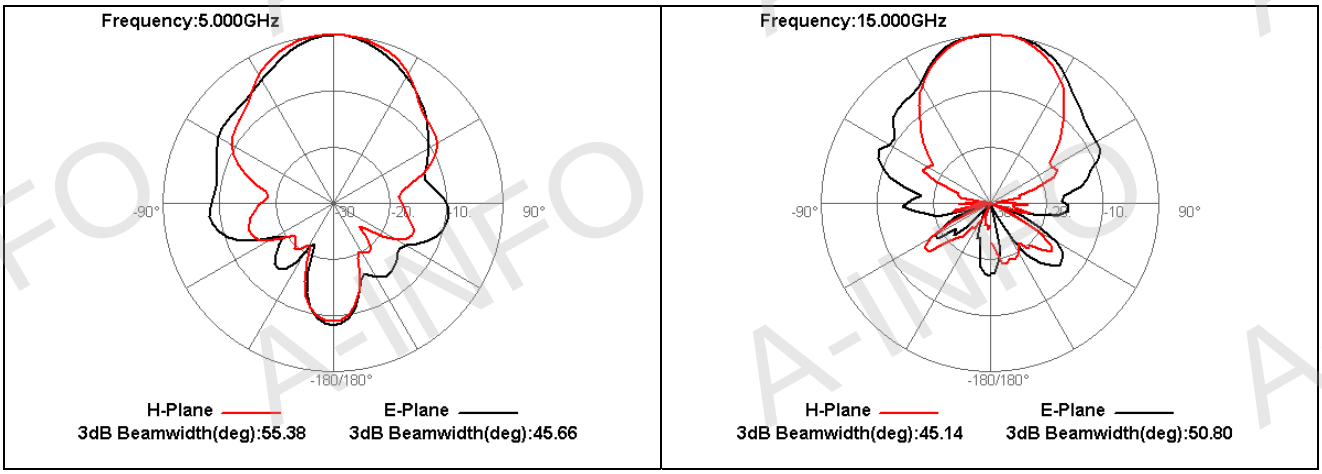

## Cross Polarization Isolation




## Port to Port Isolation




## Pattern



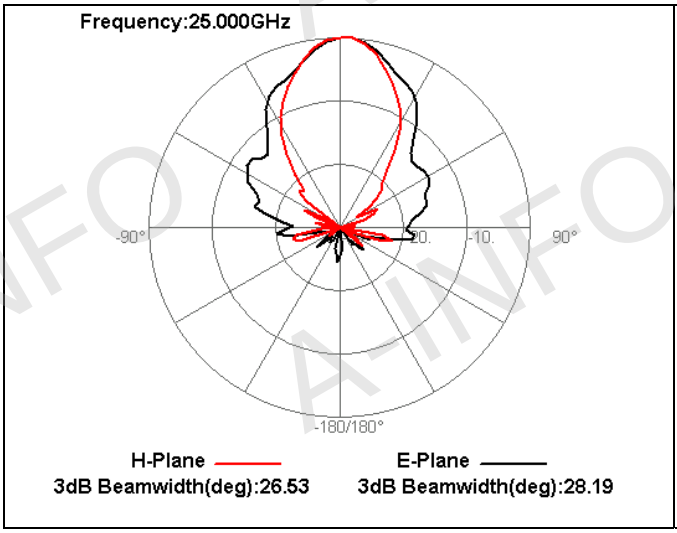


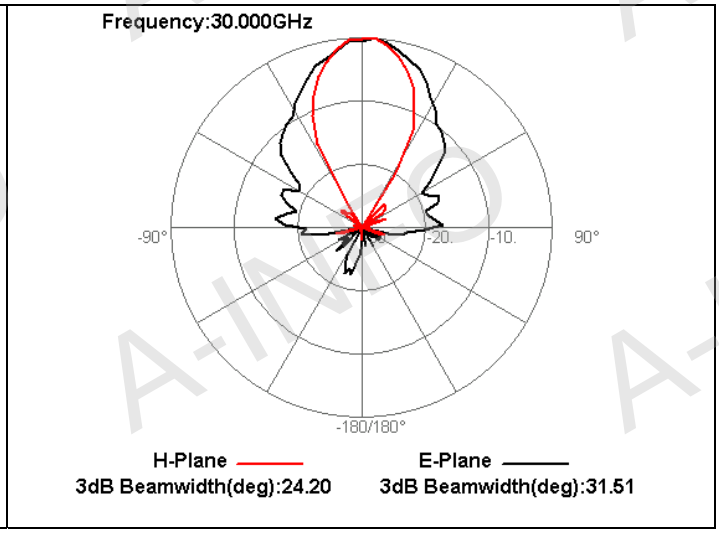

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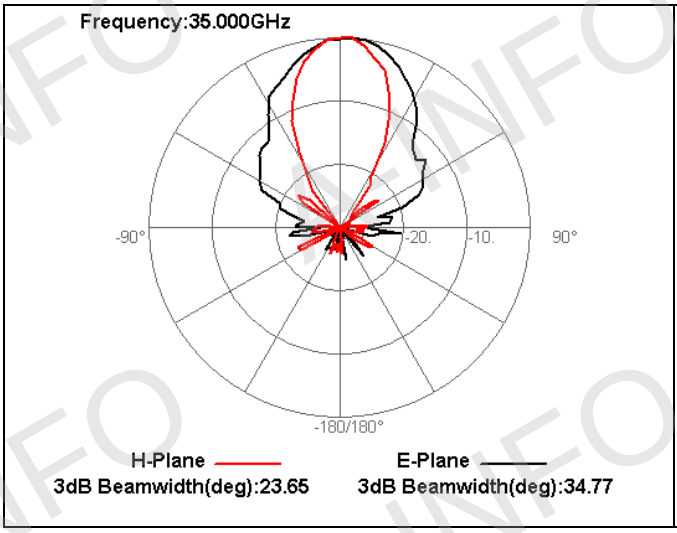
# Broadband Dual Pol. Horn Antenna 5.0~50.0GHz(continued)

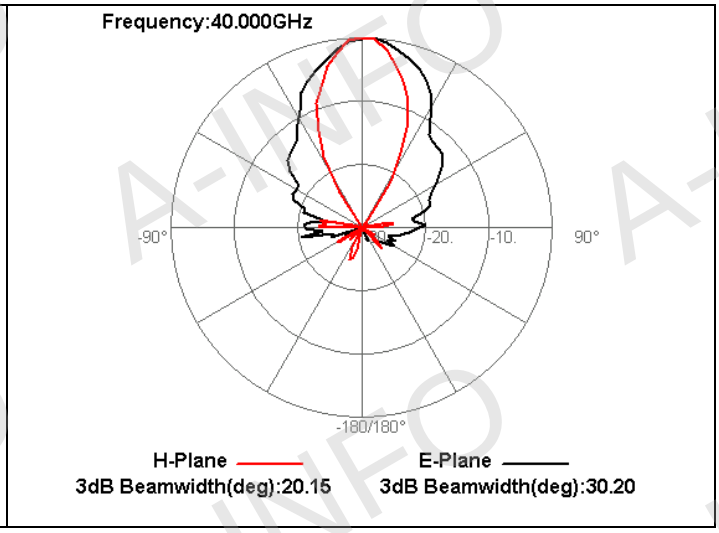
**P/N: LB-SJ-50500**

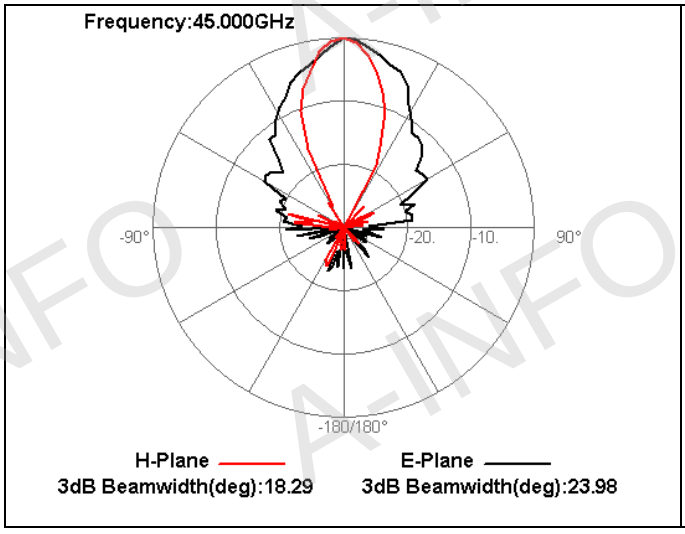
**Pattern**

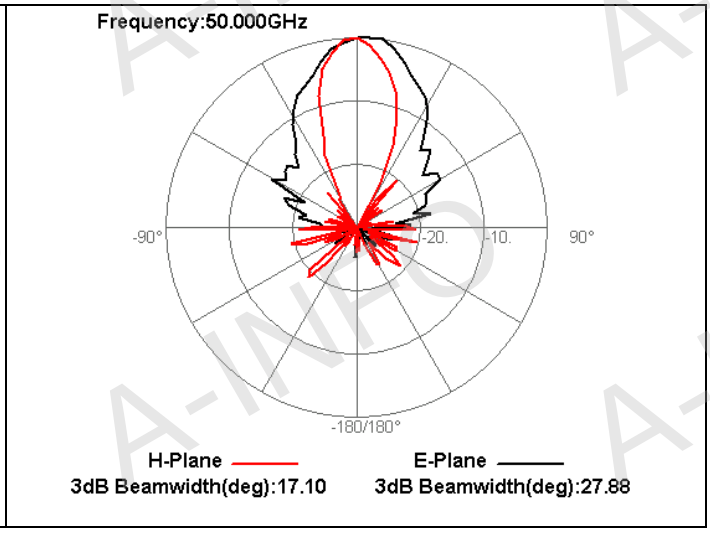





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# Dual Polarization Horn Antenna 6.0~18.0GHz

**P/N: LB-SJ-60180**

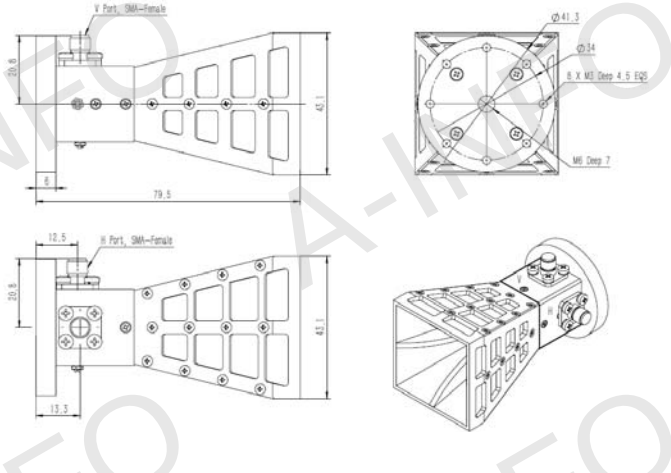


## Technical Specification

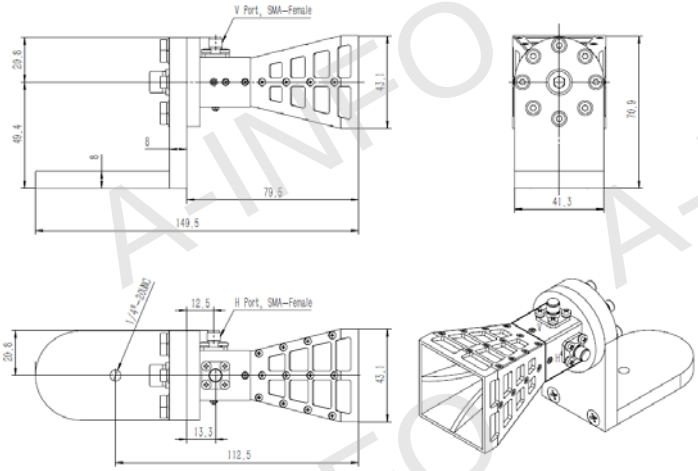
| | |
|---|---|
| Frequency Range(GHz) | 6 - 18 |
| Gain(dB) | 12 Typ. |
| Polarization | Dual Pol. |
| 3dB Beamwidth(deg) | 77-24 |
| Cross Pol. Isolation(dB) | 30 Typ.<br>20 Min. |
| Port to Port Isolation(dB) | 30 Min. |
| VSWR | 2.0:1 Typ.<br>2.5:1 Max. |
| Connector | SMA -Female |
| Power Handling(W) CW | 25 Max |
| Material | Al |
| Size(mm) | 43.1x43.1x79.5 |
| Net Weight(Kg) | 0.1 Around |

## Outline Drawing (Size: mm)

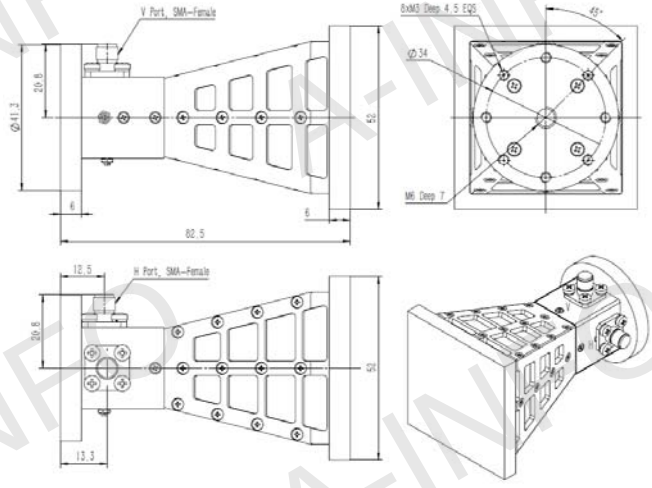
SMA Female Output



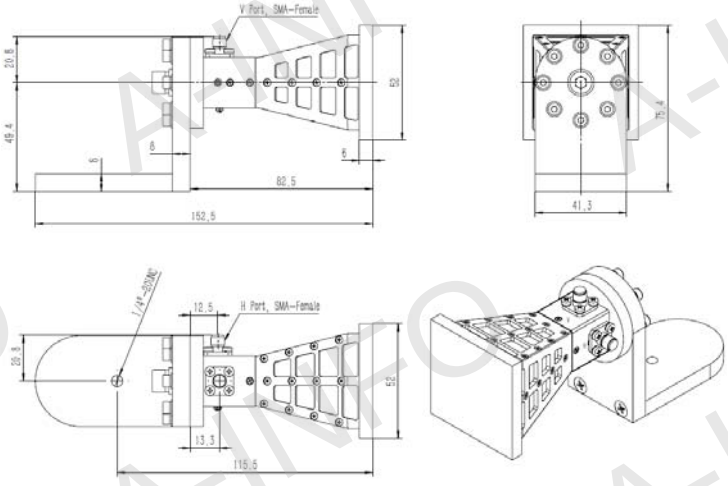
SMA Female Output with L Type Mounting Bracket



SMA Female Output with Radome



SMA-F Output w/ Radome & L Type Mounting Bracket



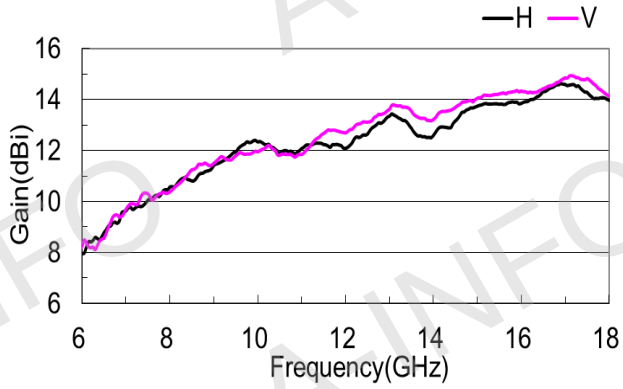


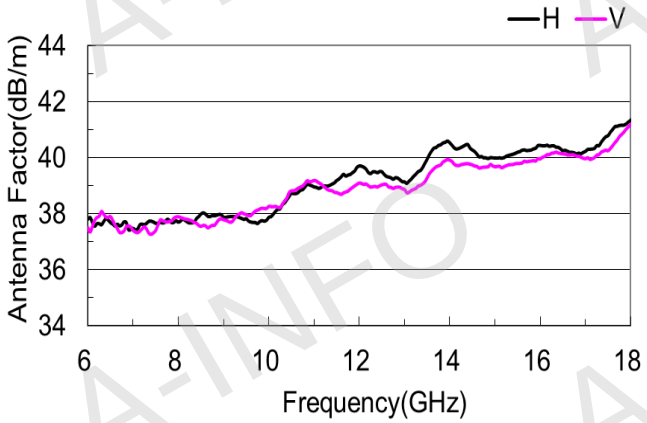
China(Beijing): Tel: (+86) 10-6266-7326, (+86) 10-6266-7327 Fax: (+86) 10-6266-7379
China(Chengdu): Tel: (+86) 28-8519-2786, (+86) 28-8519-3044 Fax: (+86) 28-8519-3068
USA : Tel: (+1) 949-639-9688, (+1) 949-639-9608 Fax: (+1) 949-639-9670
Website: www.ainfoinc.com
Email: sales@ainfoinc.com

# Dual Pol. Horn Antenna 6.0-18.0GHz(continued)

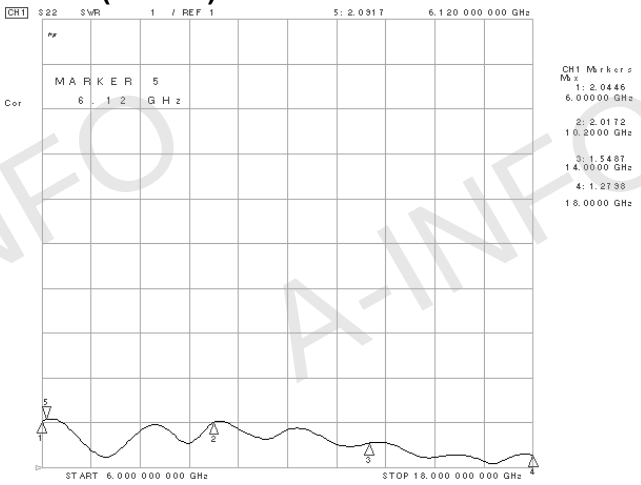
**P/N: LB-SJ-60180**

## Gain& Antenna Factor

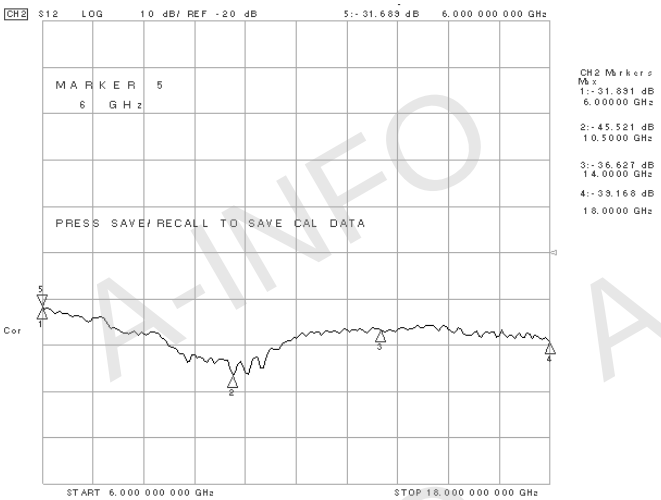


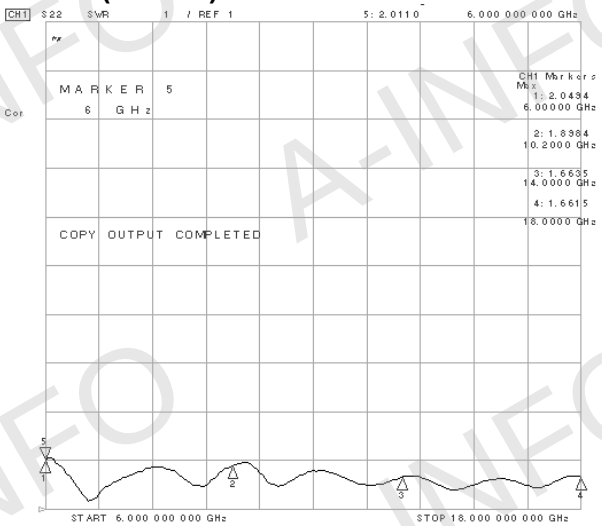

## VSWR(Port-V)



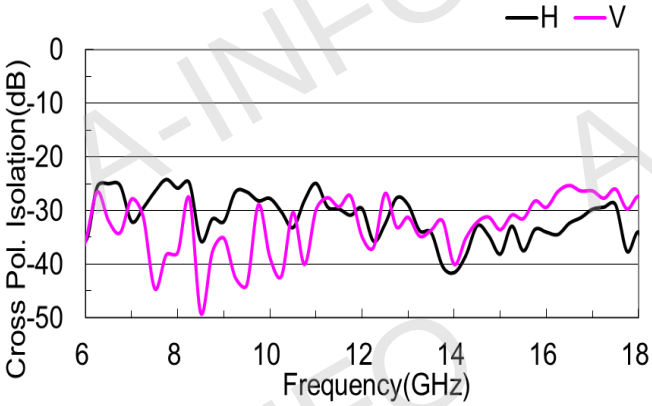

## Port to Port Isolation




## VSWR(Port-H)




## Cross Polarization Isolation



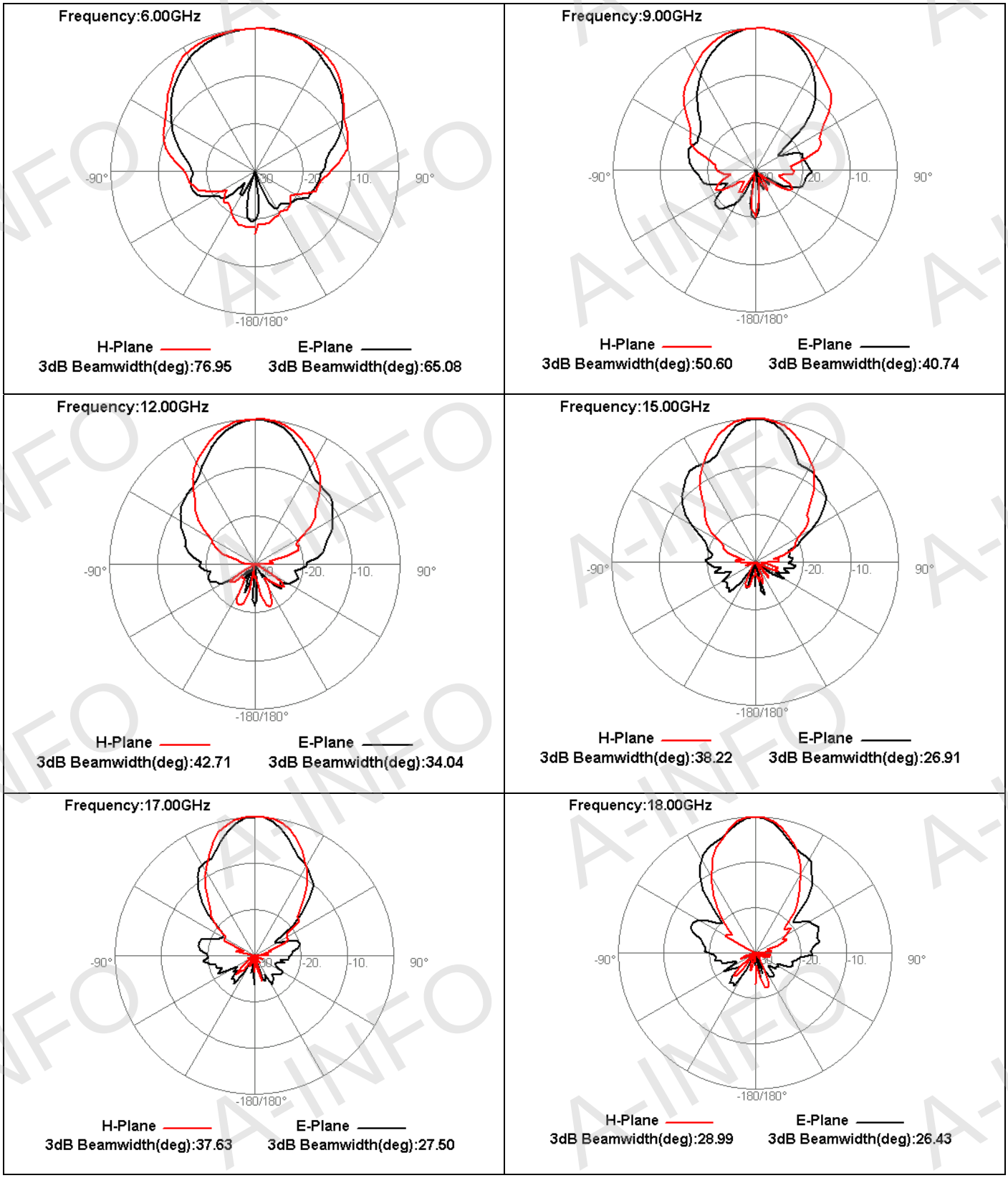



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# Dual Pol. Horn Antenna 6.0-18.0GHz(continued)

**P/N: LB-SJ-60180**

## Pattern






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Website: www.ainfoinc.com
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# Broadband Dual Polarization Horn Antenna 18.0~40.0GHz

**P/N: LB-SJ-180400**

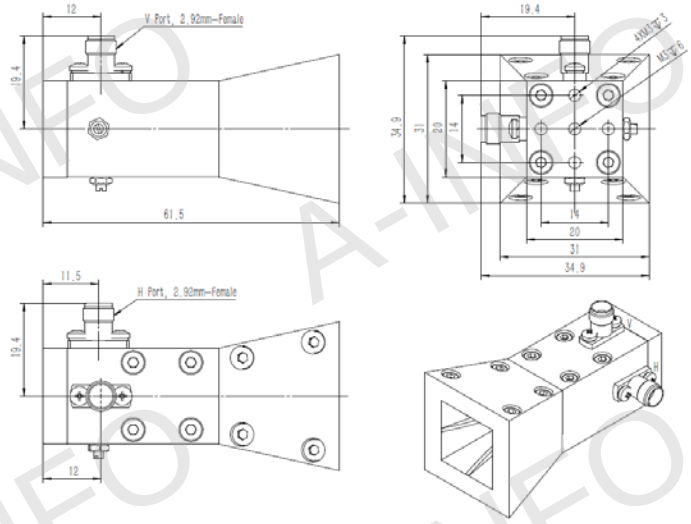


## Technical Specification

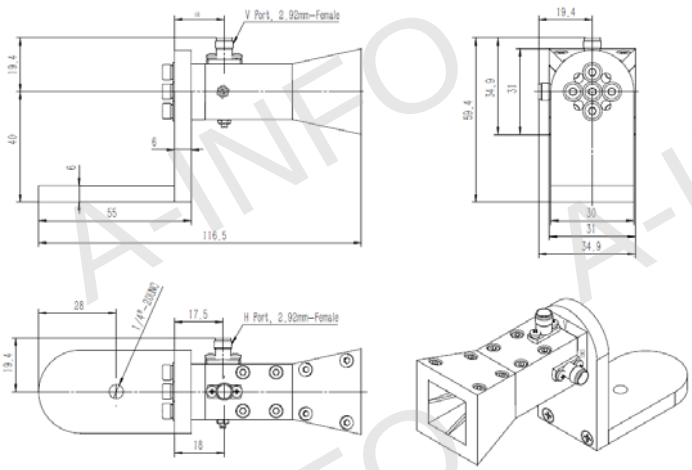
| | |
|---|---|
| Frequency Range(GHz) | 18 - 40 |
| Gain(dB) | 15 Typ. |
| Polarization | Dual Pol. |
| 3dB Beamwidth(deg) | 55-20 |
| Cross Pol. Isolation(dB) | 20 Min./ 30 Typ. |
| Port to Port Isolation(dB) | 20 Min. |
| VSWR | 2.0:1 Typ.<br>3.0:1 Max. |
| Connector | 2.92mm-Female/<br>2.4mm-Female |
| Power Handling(W) CW | 10 Max. |
| Material | Cu |
| Size(mm) | 34.9 x 34.9 x 61.5 |
| Net Weight(Kg) | 0.25 Around |

**Outline Drawing (Size: mm)** For 2.4mm Female output outline drawing, please contact A-INFO.

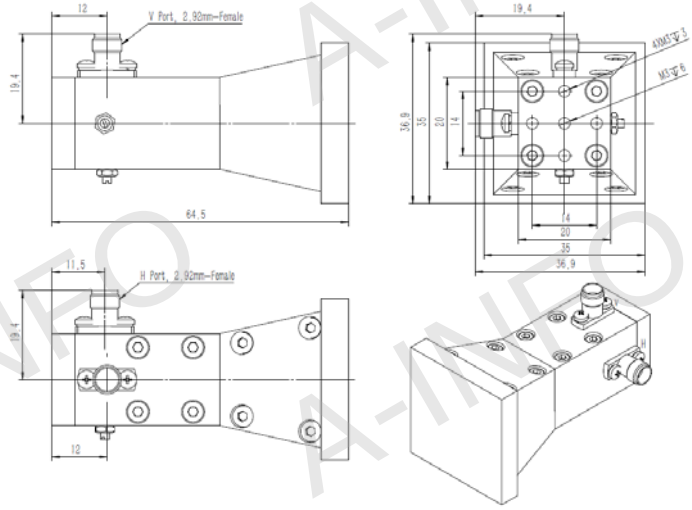
2.92mm-Female Output



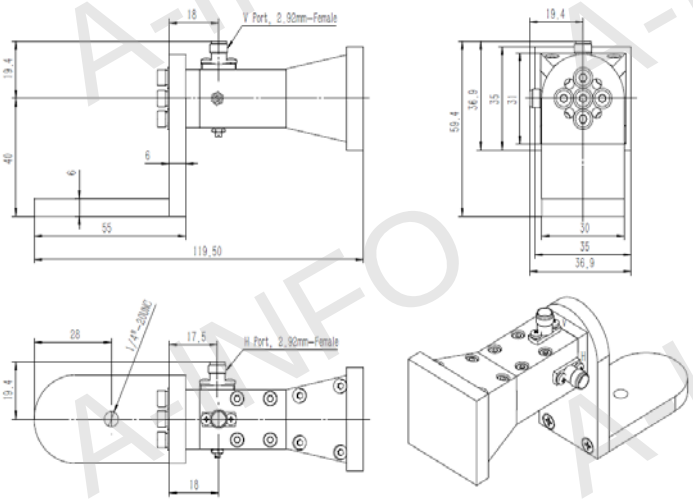

2.92mm Female Output with L type mounting bracket




2.92mm Female Output with Radome




2.92mm Female Output with L type mounting bracket & Radome



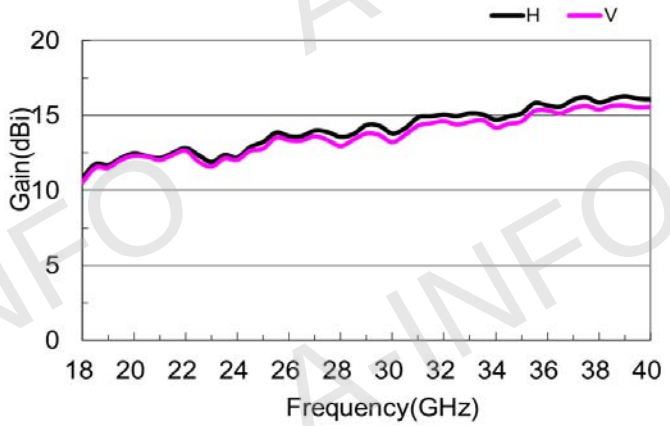


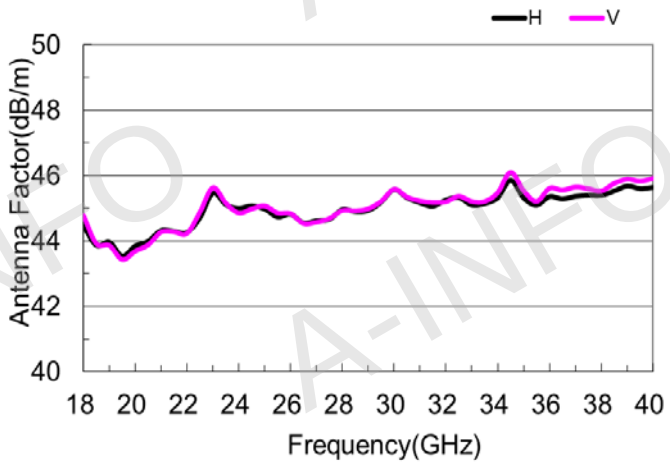

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# Broadband Dual Pol. Horn Antenna 18.0-40.0GHz(continued)

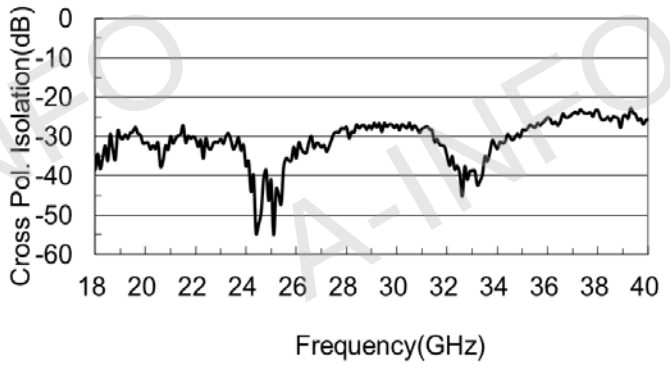
**P/N: LB-SJ-180400**

## Gain & Antenna Factor

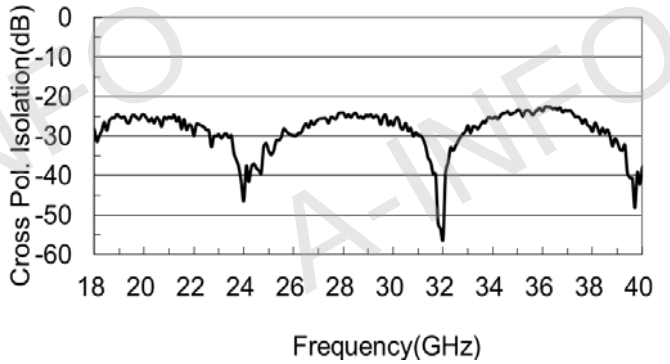


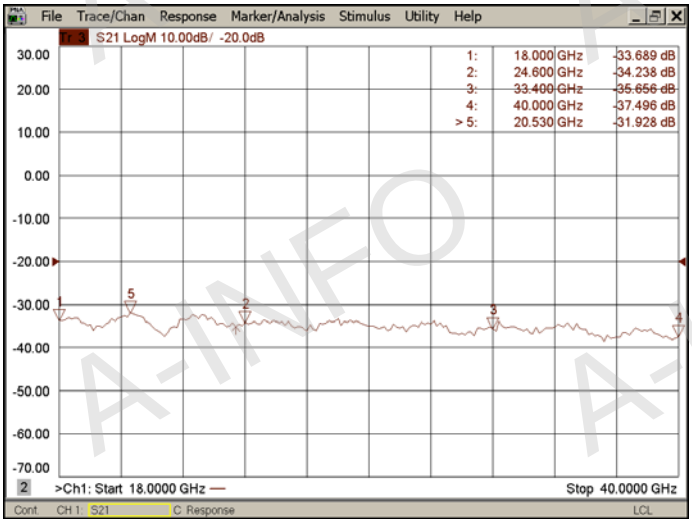

## Cross Polarization Isolation(Port-V)



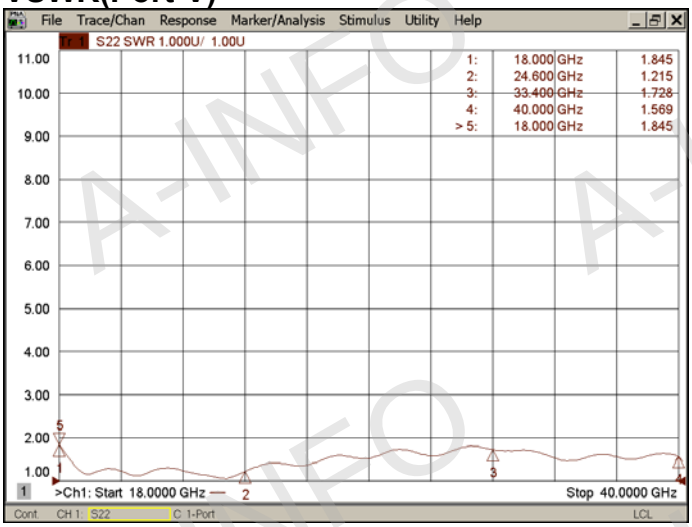

## Cross Polarization Isolation(Port-H)



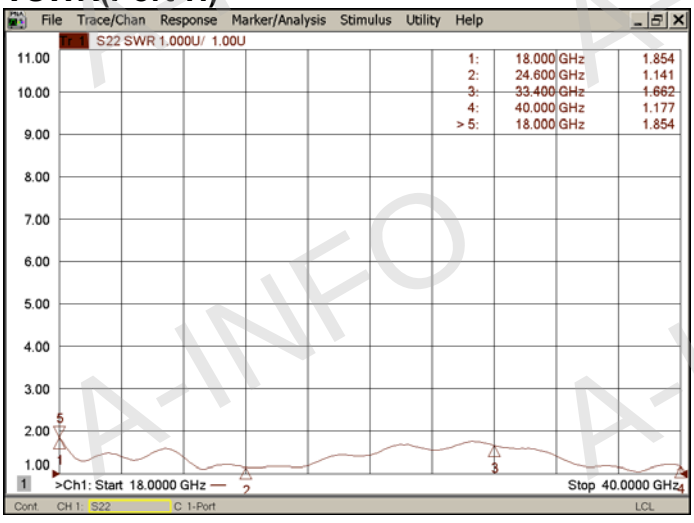

## Port to Port Isolation




## VSWR(Port-V)




## VSWR(Port-H)



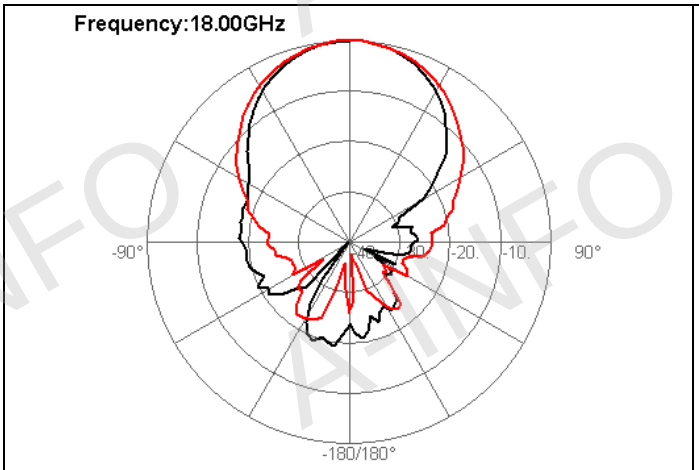



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# Broadband Dual Pol. Horn Antenna 18.0-40.0GHz(continued)

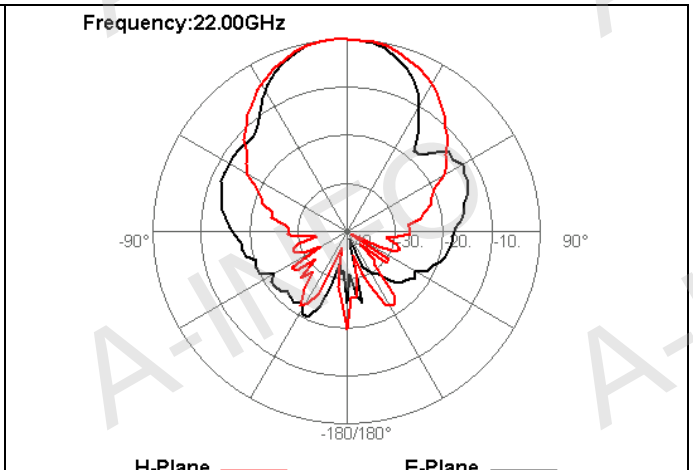
**P/N: LB-SJ-180400**

**Pattern**



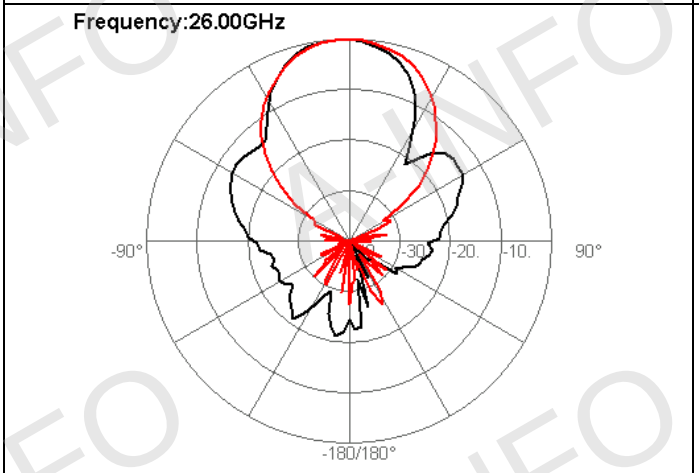

H-Plane 3dB Beamwidth(deg):49.71

E-Plane 3dB Beamwidth(deg):43.48



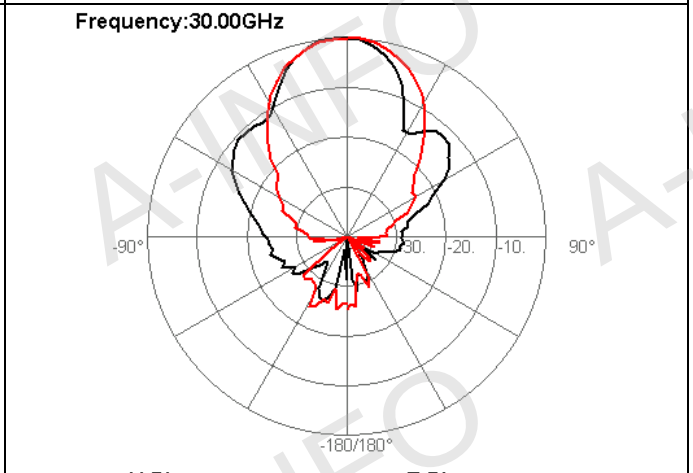

H-Plane 3dB Beamwidth(deg):48.25

E-Plane 3dB Beamwidth(deg):38.93



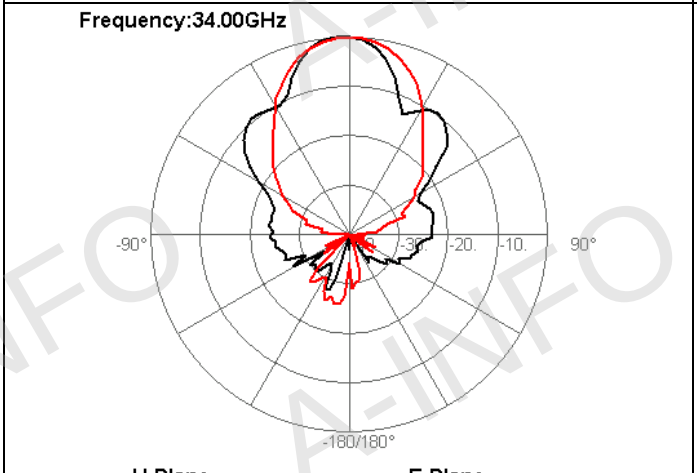

H-Plane 3dB Beamwidth(deg):38.31

E-Plane 3dB Beamwidth(deg):34.75



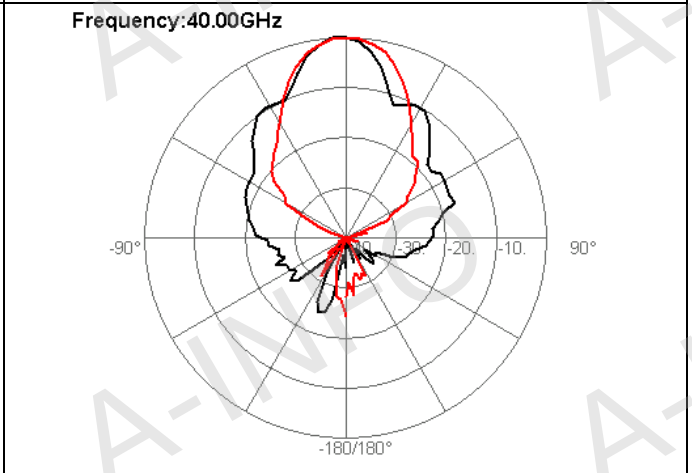

H-Plane 3dB Beamwidth(deg):34.97

E-Plane 3dB Beamwidth(deg):29.80




H-Plane 3dB Beamwidth(deg):32.08

E-Plane 3dB Beamwidth(deg):25.12




H-Plane 3dB Beamwidth(deg):26.79

E-Plane 3dB Beamwidth(deg):20.56



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# Open Boundary Quad-Ridged Horn Antenna




*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Dual Polarization Horn Antenna and download.*

| Model | Freq. (GHz) | Pol. | Gain (dB) | VSWR Typ. | Port Isolation (dB) Min. | Connector | Power Handling (W)CW Max. | Size (mm) |
|---|---|---|---|---|---|---|---|---|
| LB-OSJ-0460-SF | 0.4-6.0 | Dual | 4-14 | 1.5:1 | 20 | SMA-F | 50 | 510x510x550 |
| LB-OSJ-0460-NF | 0.4-6.0 | Dual | 4-14 | 1.5:1 | 20 | N-F | 50 | 510x510x550 |
| LB-OSJ-0760-SF | 0.7-6.0 | Dual | 11 | 2.0:1 | 20 | SMA-F | 50 | 310x310x411 |
| LB-OSJ-0760-NF | 0.7-6.0 | Dual | 11 | 2.0:1 | 20 | N-F | 50 | 310x310x411 |
| LB-OSJ-07100-SF | 0.7-10.0 | Dual | 11 | 2.0:1 | 20 | SMA-F | 50 | 310x310x411 |
| LB-OSJ-07100-NF | 0.7-10.0 | Dual | 11 | 2.0:1 | 20 | N-F | 50 | 310x310x411 |
| LB-OSJ-10180-SF | 1.0-18.0 | Dual | 10 | 2.0:1 | 20 | SMA-F | 50 | 190.1x190.1x186.1 |
| LB-OSJ-10180-NF | 1.0-18.0 | Dual | 10 | 2.0:1 | 20 | N-F | 50 | 190.1x190.1x186.1 |
| LB-OSJ-10200-SF | 1.0-20.0 | Dual | 10 | 2.0:1 | 20 | SMA-F | 50 | 190.1x190.1x186.1 |
| LB-OSJ-10200-NF | 1.0-20.0 | Dual | 10 | 2.0:1 | 20 | N-F | 50 | 190.1x190.1x186.1 |
| LB-OSJ-20180-SF | 2.0-18.0 | Dual | 13 | 2.0:1 | 20 | SMA-F | 25 | 140x140x196 |


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# Open Boundary Quad-Ridged Horn Antenna 0.4~6.0GHz

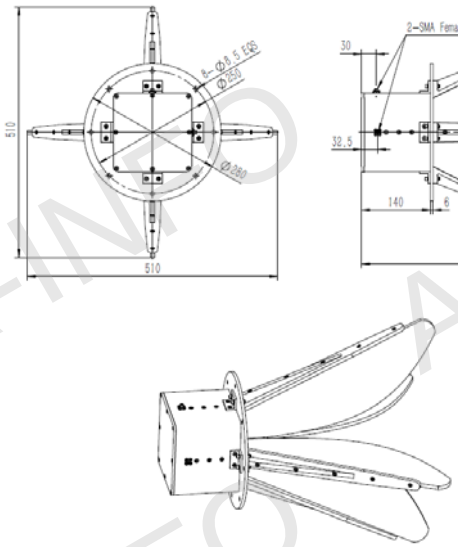
**P/N: LB-OSJ-0460**



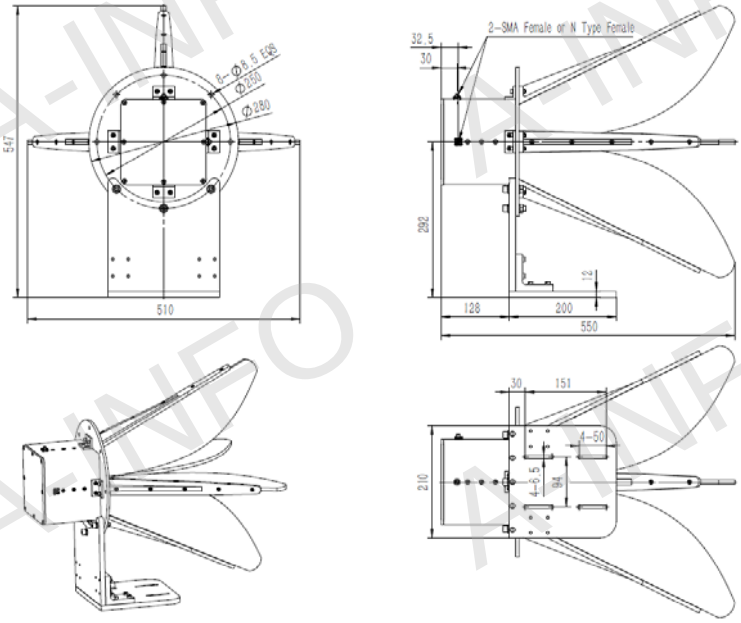
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.4-6.0 |
| Gain(dB) | 4-14 |
| Polarization | Dual Pol. |
| VSWR | 1.5:1 Typ. |
| | 3.0:1 Max |
| V/H 3dB Beamwidth(deg) | 80-30 |
| Cross Isolation(dB) | 20 Min |
| Connector | SMA-F/N-F |
| Power Handling(W) CW | 50/50 |
| Size(mm) | 510x510x550 |
| Net Weight(Kg) | 9.5 Around |

## Outline Drawing (Size: mm)




## Outline Drawing with Mounting Bracket (Material: non-metal) (Size: mm)



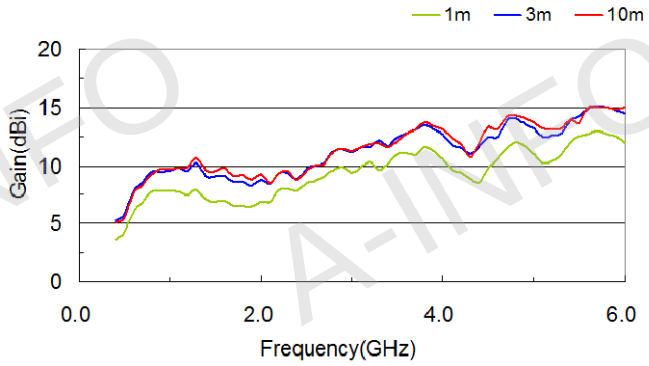



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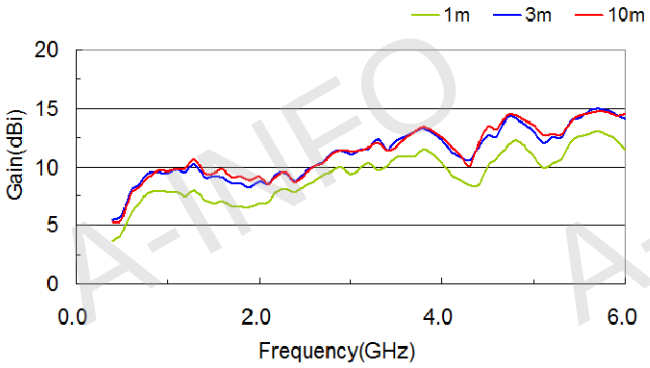
# Open Boundary Quad-Ridged Horn Antenna 0.4~6.0GHz (continued)

**P/N: LB-OSJ-0460**

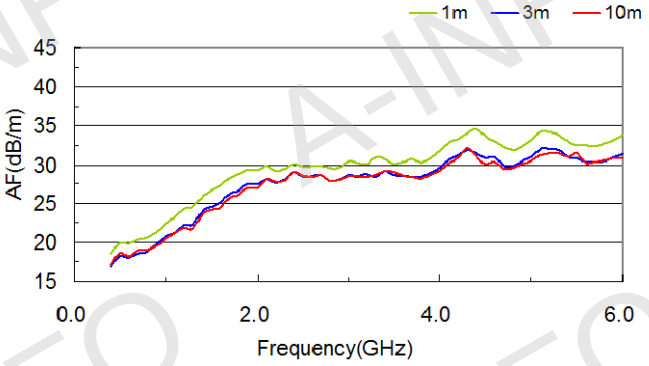
## Gain(H port)



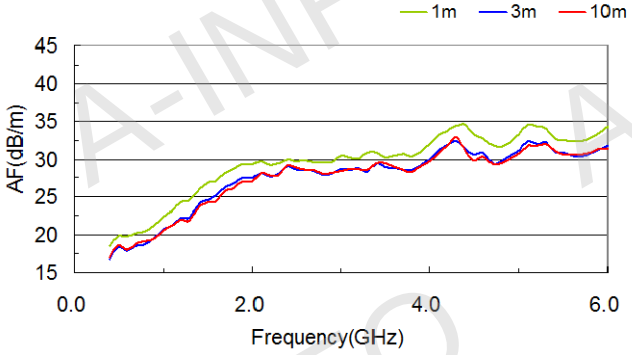

## Gain(V port)



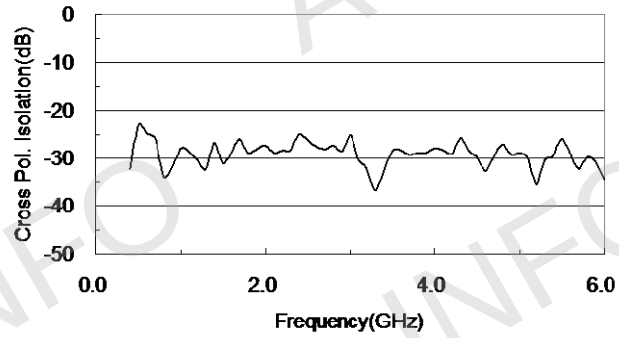

## Antenna Factor(H port)



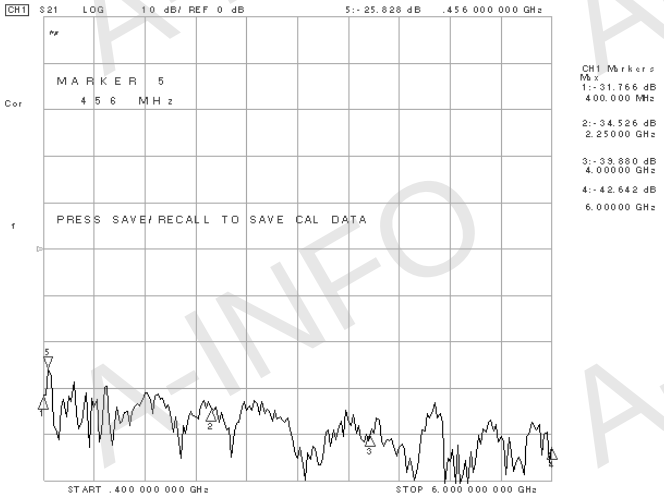

## Antenna Factor(V port)




## Cross Polarization Isolation




## Port to Port Isolation



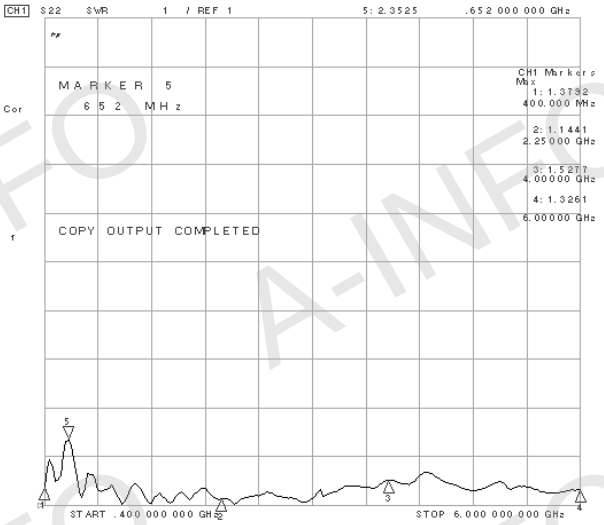



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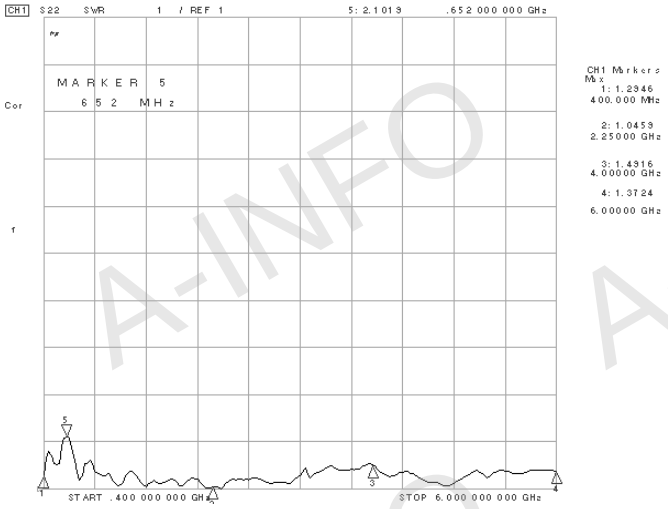
# Open Boundary Quad-Ridged Horn Antenna 0.4~6.0GHz (continued)

## P/N: LB-OSJ-0460

### VSWR(H port)

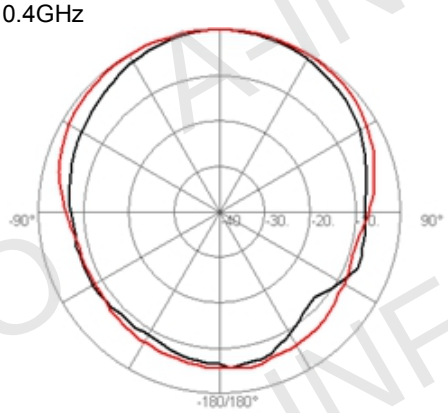



### VSWR(V port)




### Pattern(Tested by A-INFO)

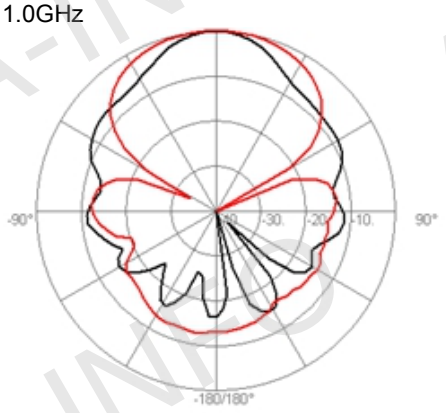
Frequency: 0.4GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 136.72 3dB Beamwidth (deg): 89.11

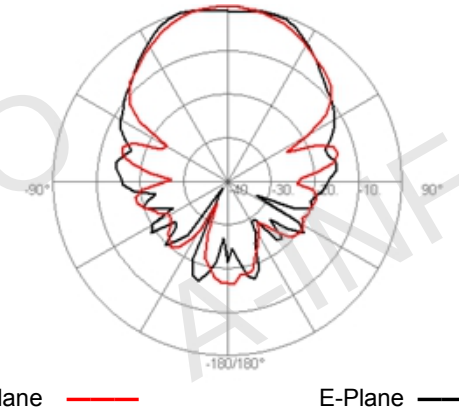
Frequency: 1.0GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 68.28 3dB Beamwidth (deg): 35.84

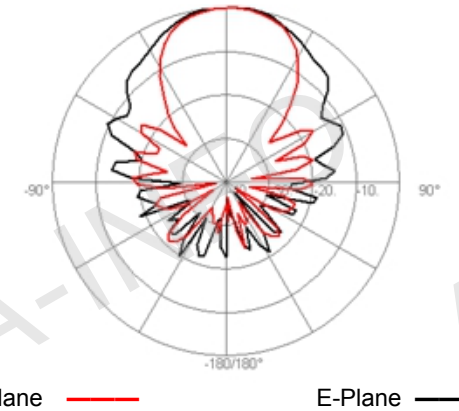
Frequency: 2.0GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 50.44 3dB Beamwidth (deg): 56.75

Frequency: 3.0GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 41.46 3dB Beamwidth (deg): 48.12



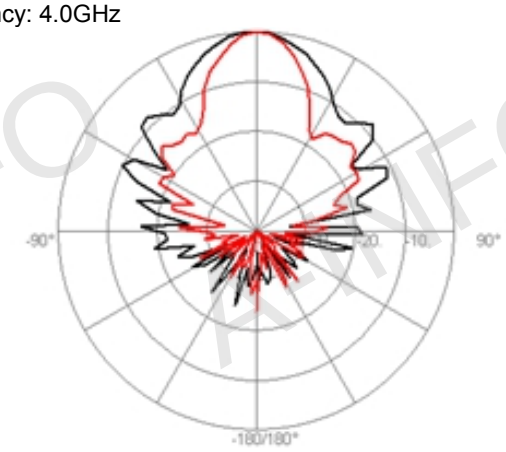
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China(Chengdu): Tel: (+86) 28-8519-2786, (+86) 28-8519-3044 Fax: (+86) 28-8519-3068
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Email: sales@ainfoinc.com

# Open Boundary Quad-Ridged Horn Antenna 0.4~6.0GHz (continued)

**P/N: LB-OSJ-0460**

**Pattern(Tested by A-INFO)**

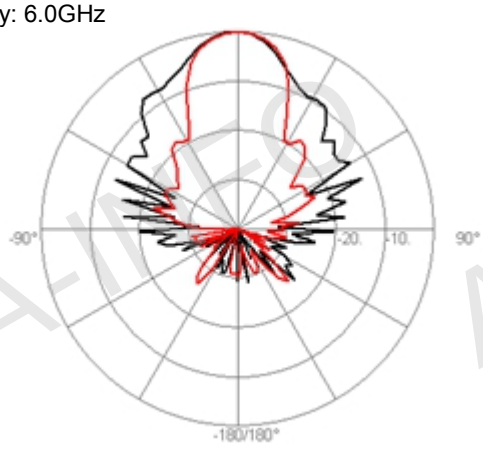
Frequency: 4.0GHz




H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 19.39 3dB Beamwidth (deg): 31.78

Frequency: 6.0GHz

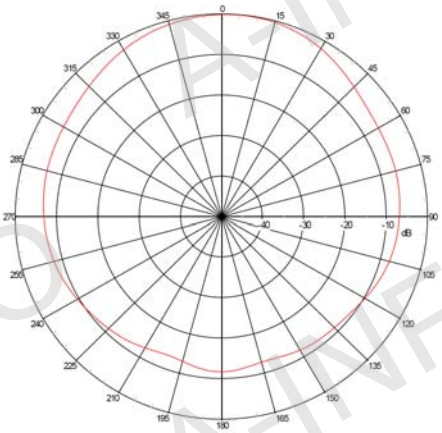



H-Plane ——— E-Plane ———

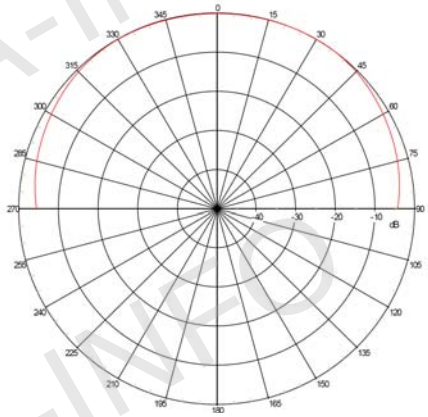
3dB Beamwidth (deg): 24.98 3dB Beamwidth (deg): 24.62

**Pattern(Tested by NSI)**

Frequency: 0.4GHz

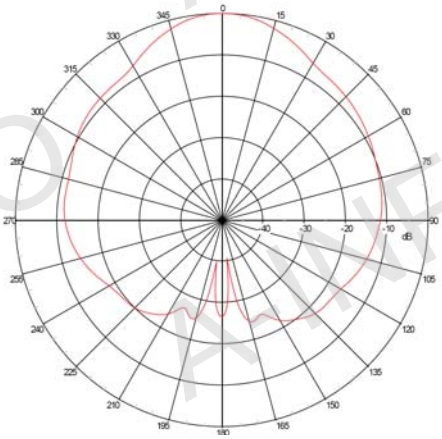


H Plane

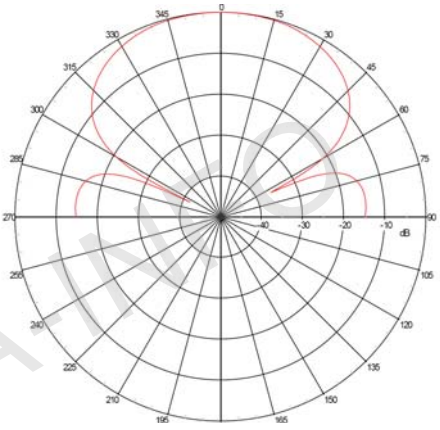


E Plane

Frequency: 1.0GHz



H Plane



E Plane



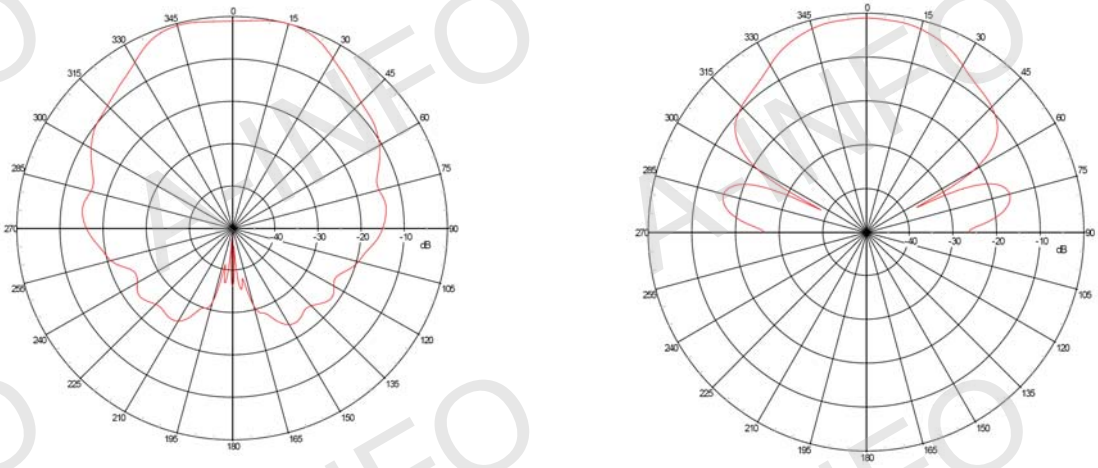
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# *Open Boundary Quad-Ridged Horn Antenna 0.4~6.0GHz (continued)*

**P/N: LB-OSJ-0460**

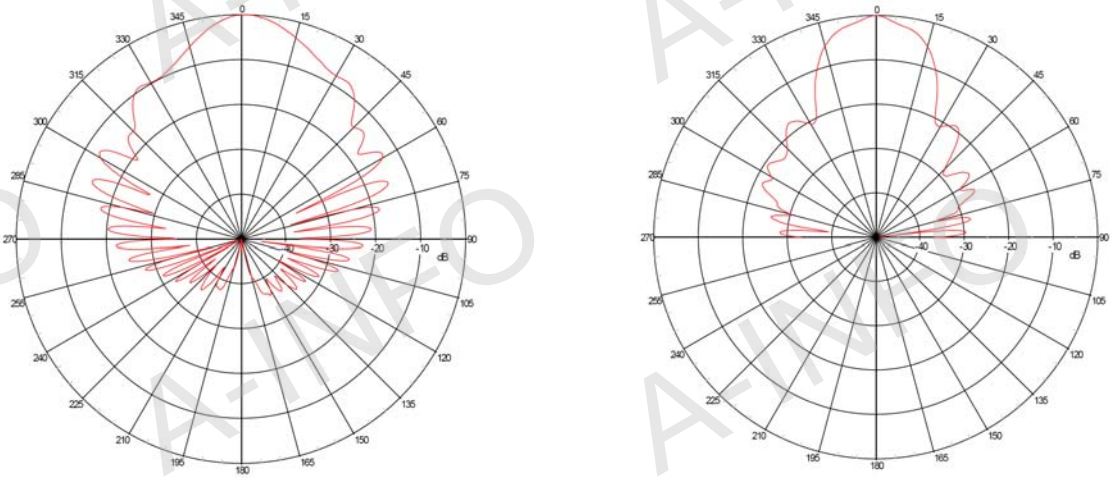
**Pattern(Tested by NSI)**

Frequency: 2.0GHz



H Plane E Plane

Frequency: 6.0GHz



H Plane E Plane



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# Open Boundary Quad-Ridged Horn Antenna 0.7~6.0GHz

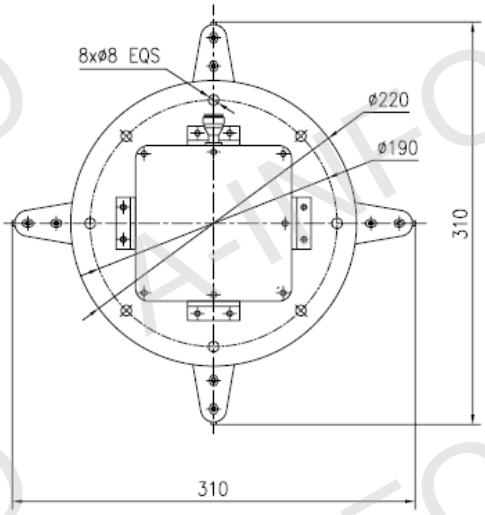
**P/N: LB-OSJ-0760**

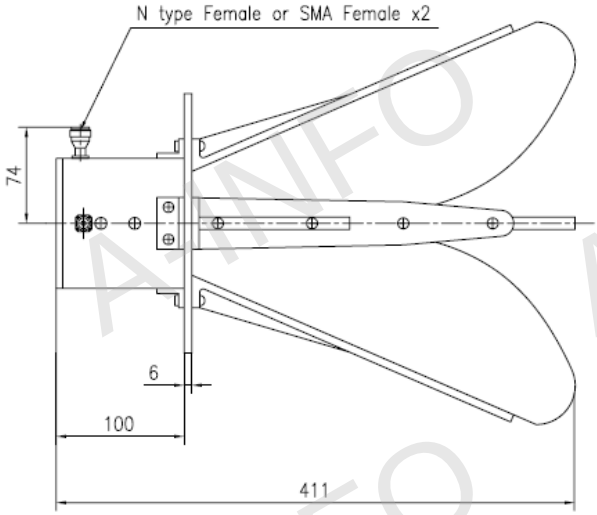


## Technical Specification

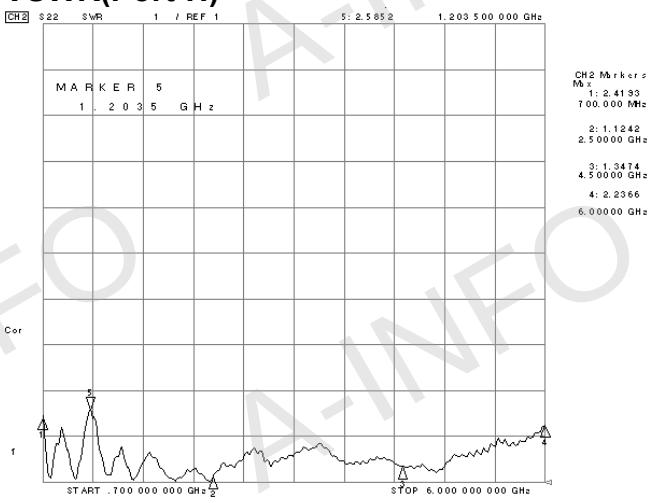
| | |
|---|---|
| Frequency Range(GHz) | 0.7-6.0 |
| Gain(dB) | 11 Typ. |
| Polarization | Dual Pol. |
| VSWR | 2.0:1 Typ. |
| V/H 3dB Beamwidth(deg) | 120-15 |
| Cross Pol. Isolation（dB） | 18 Min |
| Port Isolation(dB) | 20 Min |
| Connector | SMA-F/N-F |
| Power Handling(W) CW | 50/50 |
| Size(mm) | 310x310x411 |
| Net Weight(Kg) | 5.0 Around |

## Outline Drawing (Size: mm)

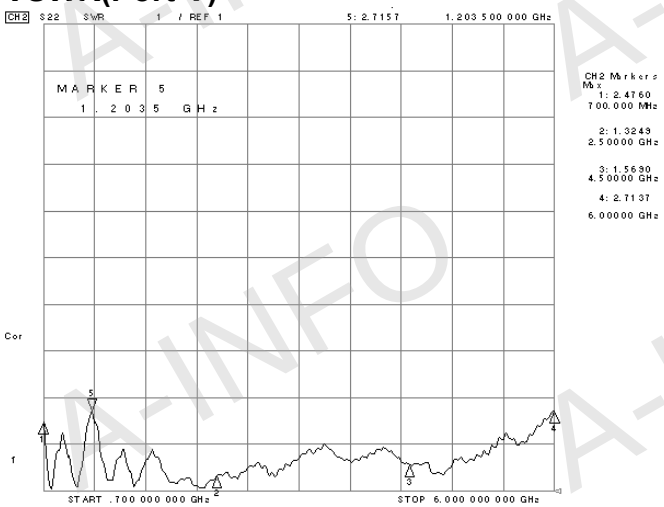



## VSWR(Port-H)




## VSWR(Port-V)





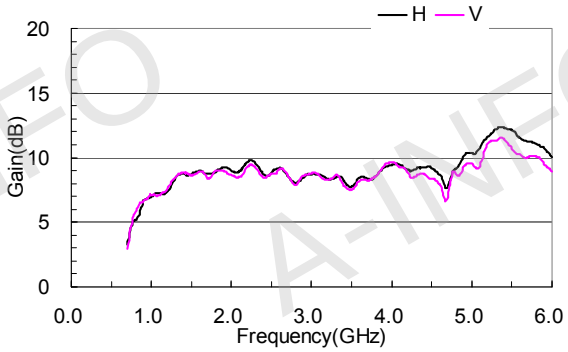

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Email: sales@ainfoinc.com

# Open Boundary Quad-Ridged Horn Antenna 0.7~6.0GHz (continued)

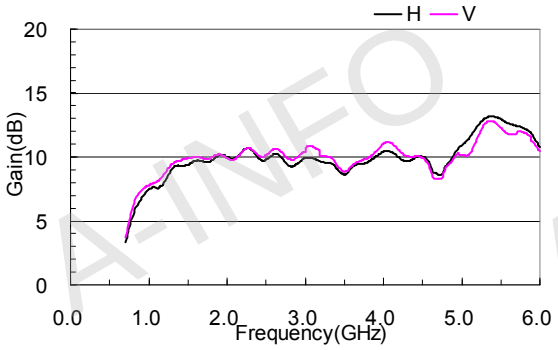
**P/N: LB-OSJ-0760**

## Gain

### Gain at 1 m

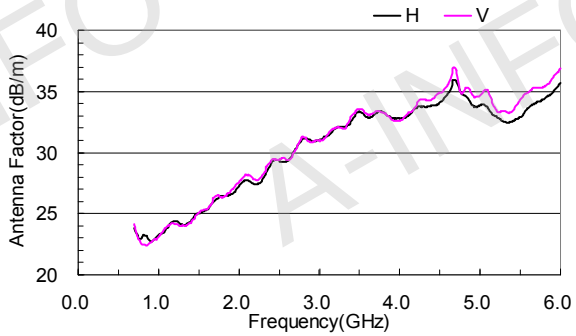



### Gain at 3 m

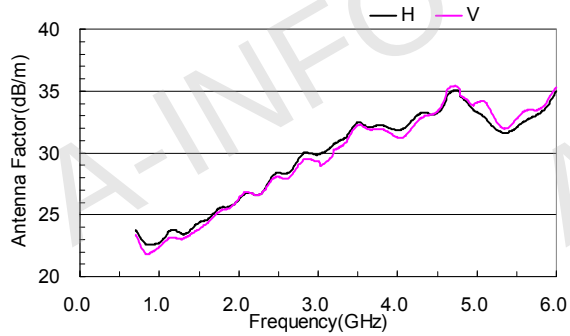



## Antenna Factor

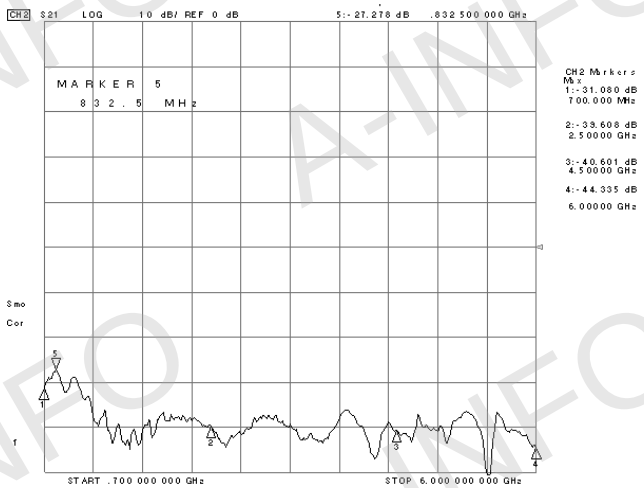
### AF at 1 m



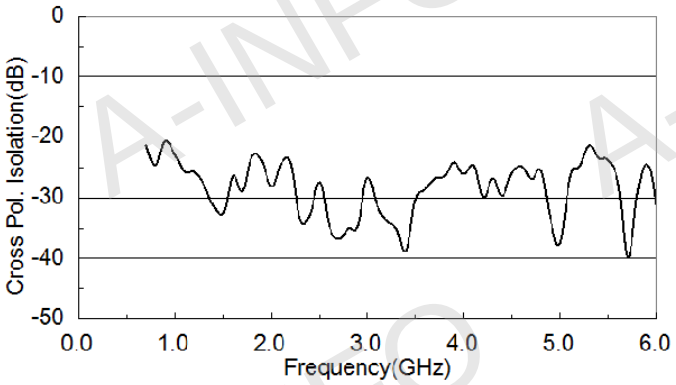

### AF at 3 m




## Port to Port Isolation




## Cross Polarization isolation

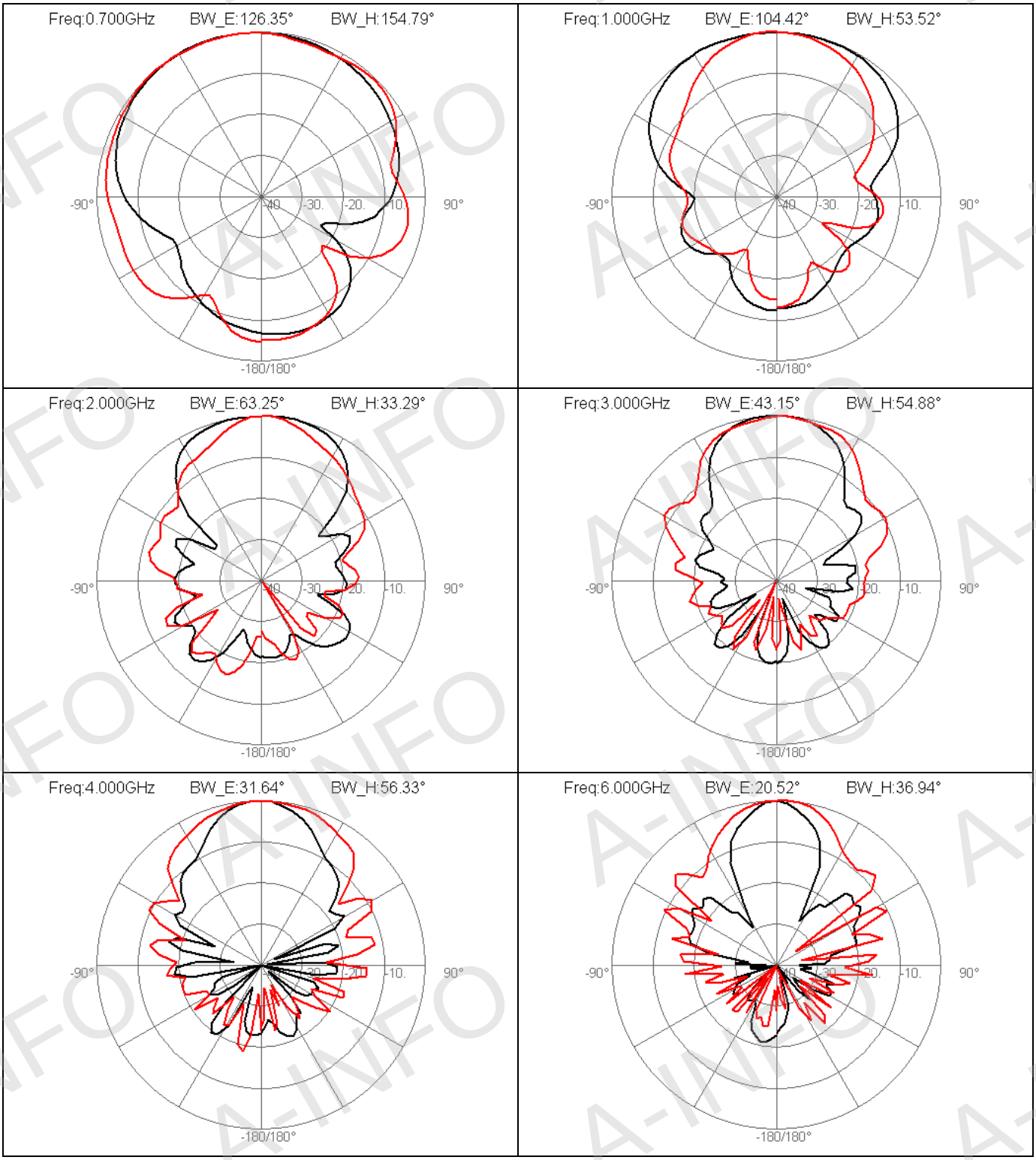





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# Open Boundary Quad-Ridged Horn Antenna 0.7~6.0GHz (continued)

**P/N: LB-OSJ-0760**






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# Open Boundary Quad-Ridged Horn Antenna 1.0~18.0GHz

**P/N: LB-OSJ-10180**

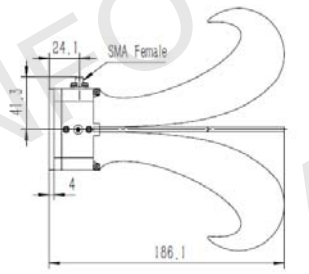


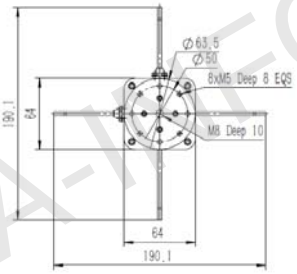
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 1.0-18.0 |
| Gain(dBi) | 10 Typ. |
| Polarization | Dual Pol. |
| 3dB Beamwidth(deg) | 190-22 |
| Cross Pol. Isolation(dB) | 20 Min. |
| Port to Port Isolation(dB) | 20 Min. |
| VSWR | 2.0:1 Typ. |
| Output | SMA-Female/N-Female |
| Power Handling(W) | SMA-Female: 50 Max. CW |
| | N-Female: 50 Max. CW |
| Material | Al |
| Size(mm) | 186.1 x 190.1 x 190.1 |
| Net Weight(Kg) | 0. 56 Around |

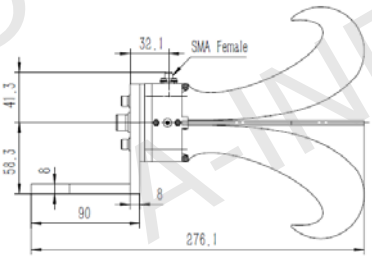
## Outline Drawing (Size: mm) For N type Female output outline drawing, please contact A-INFO.

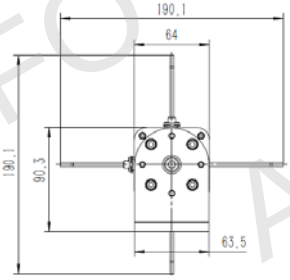
With SMA-Female Output

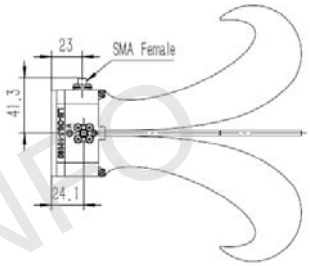


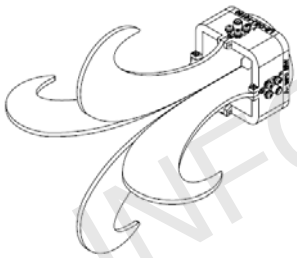



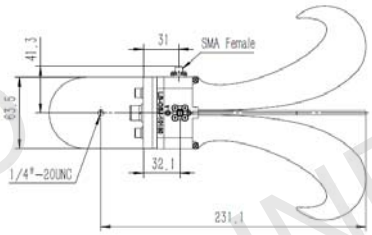

With SMA-Female Output & L Type Mounting Bracket

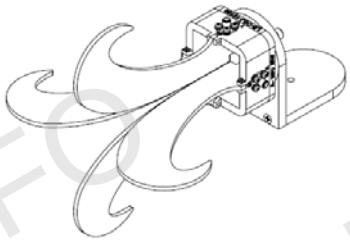


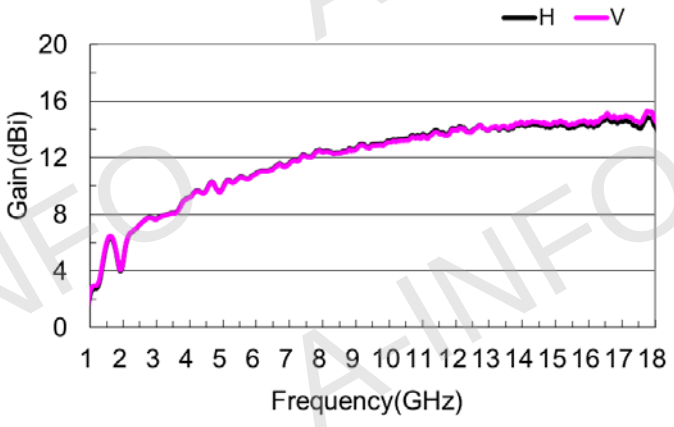



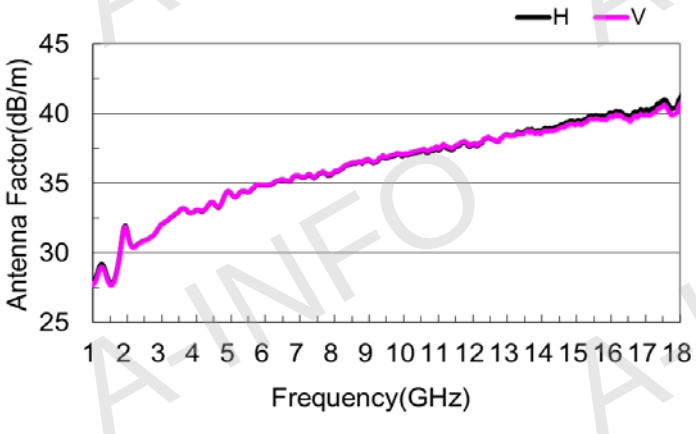





## Gain & Antenna Factor



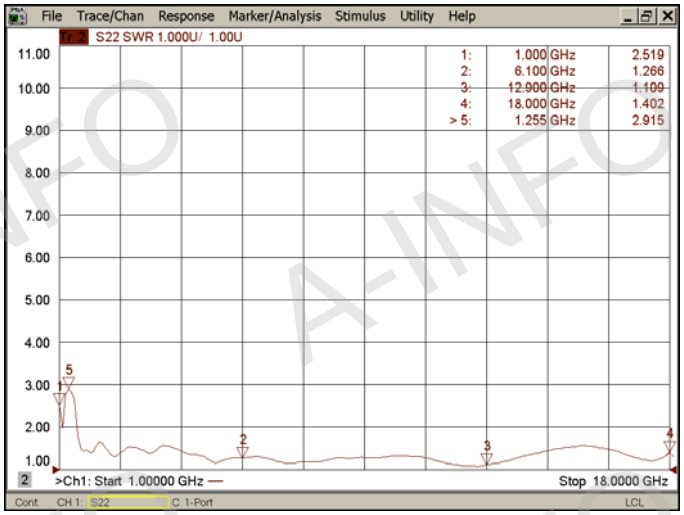



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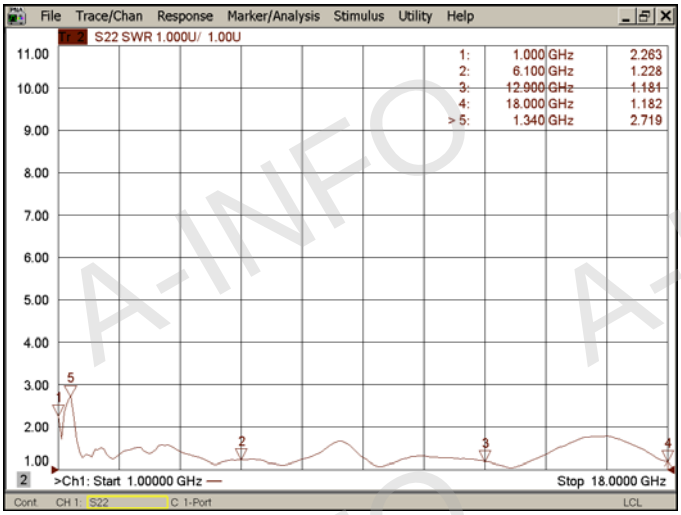
# Open Boundary Quad-Ridged Horn Antenna 1.0~18.0GHz (continued)

**P/N: LB-OSJ-10180**

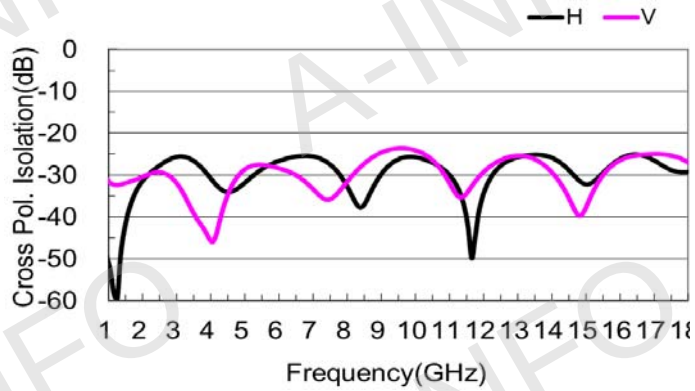
## VSWR (Port-H)



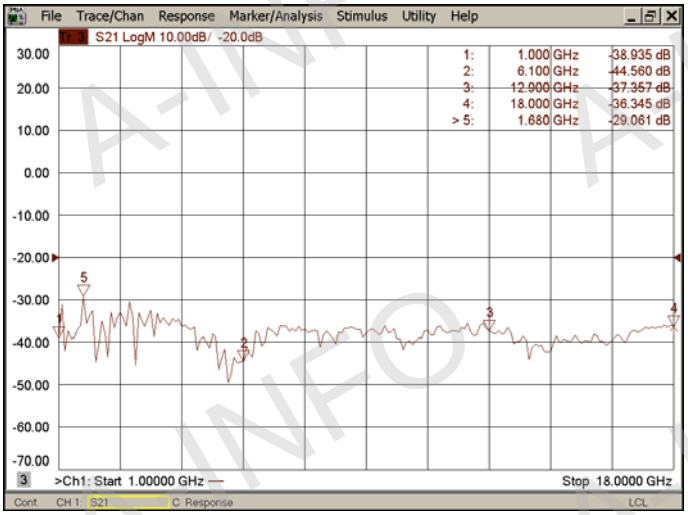

## VSWR (Port-V)



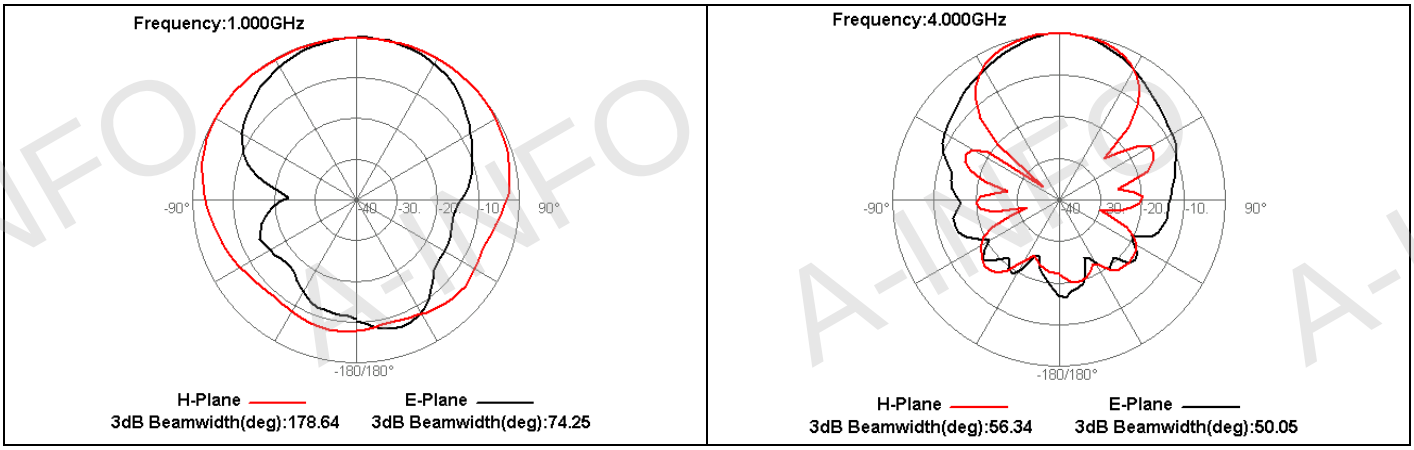

## Cross Pol. Isolation




## Port to Port Isolation




## Pattern



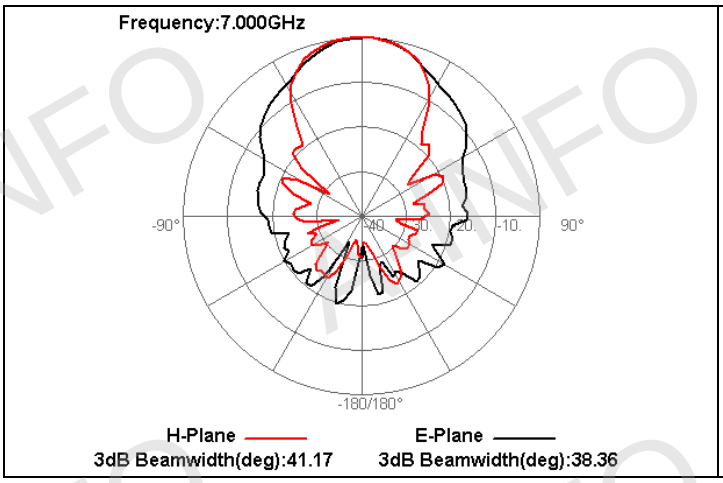


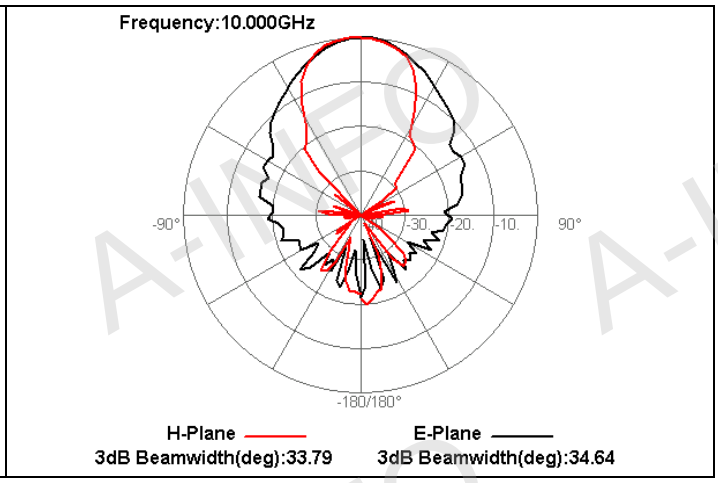

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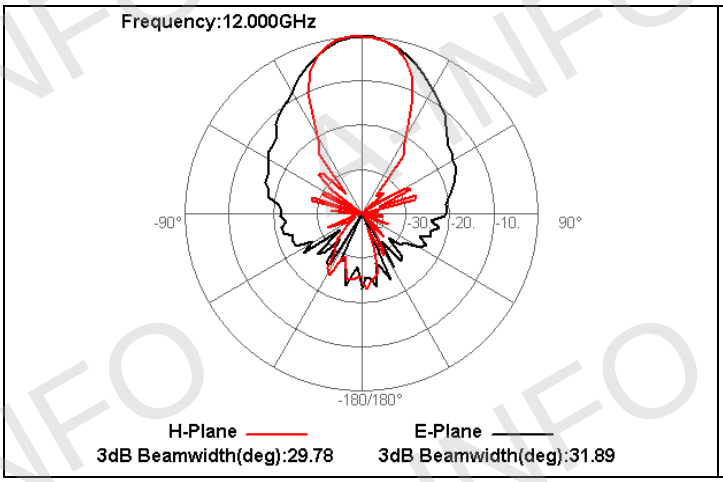
# Open Boundary Quad-Ridged Horn Antenna 1.0~18.0GHz (continued)

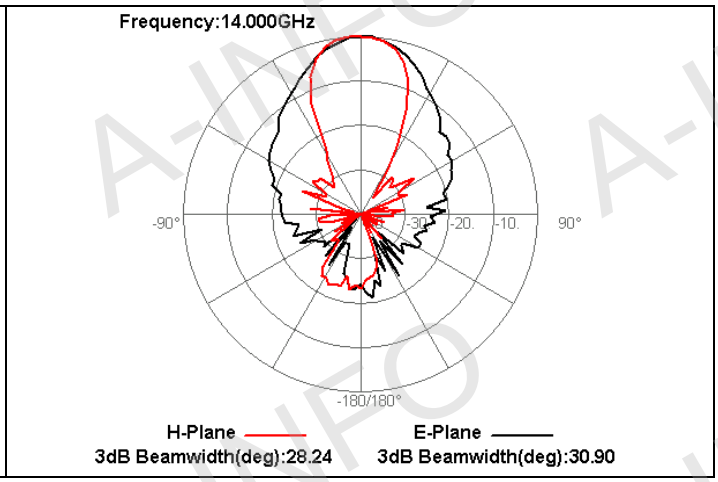
## P/N: LB-OSJ-10180

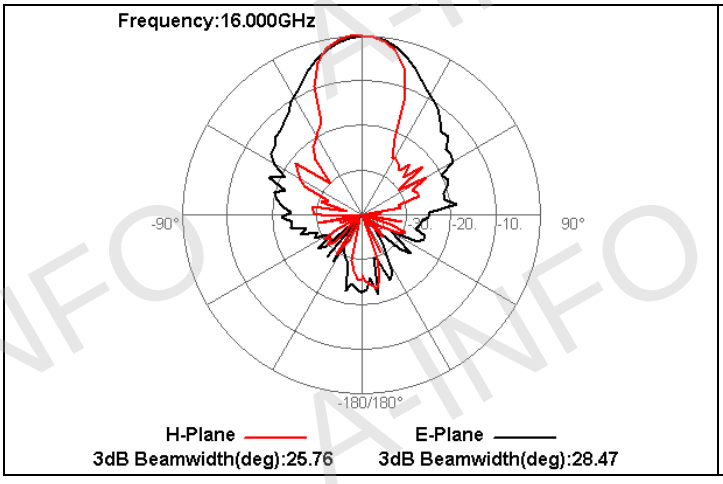
### Pattern

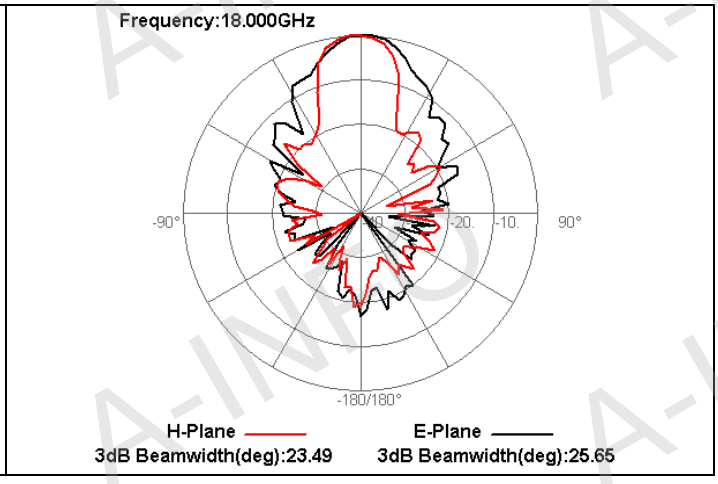




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# Open Boundary Quad-Ridged Horn Antenna 2.0~18.0GHz

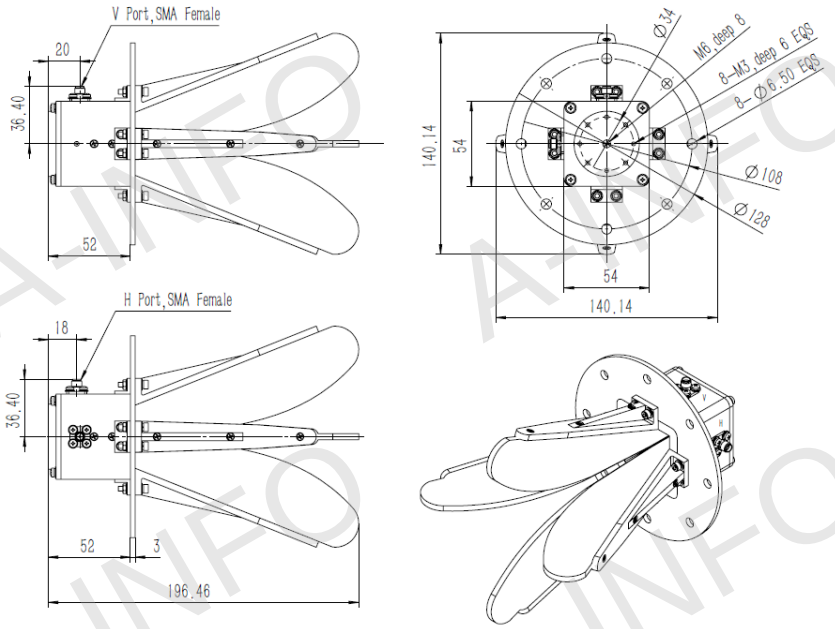
**P/N: LB-OSJ-20180**



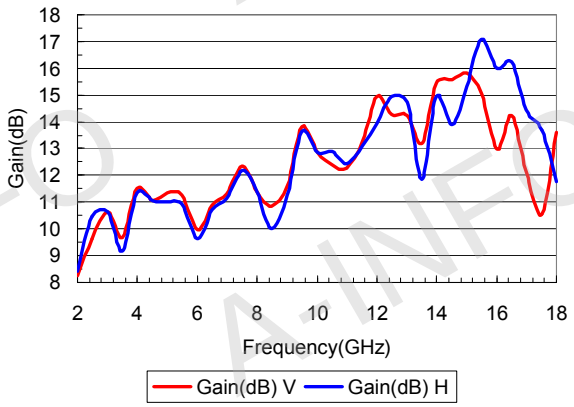
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2.0-18.0 |
| Gain(dB) | 13 Typ. |
| Polarization | Dual Pol. |
| VSWR | 2.0 Typ. |
| | 3.0 Max. |
| V/H 3dB Beamwidth(deg) | 80-15 |
| Port to Port Isolation(dB) | 20 Min |
| Connector | SMA-Female |
| Power Handling(W) CW | 25 Max |
| Size(mm) | 140.14x140.14x196.46 |
| Net Weight(Kg) | 0.7 Around |

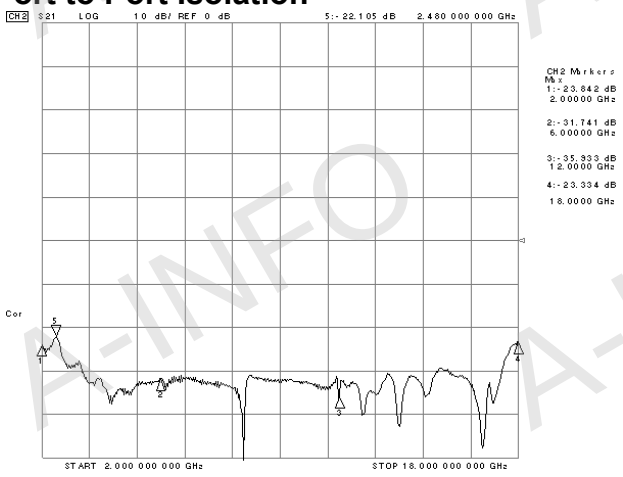
## Outline Drawing (Size: mm)




## Gain




## Port to Port Isolation





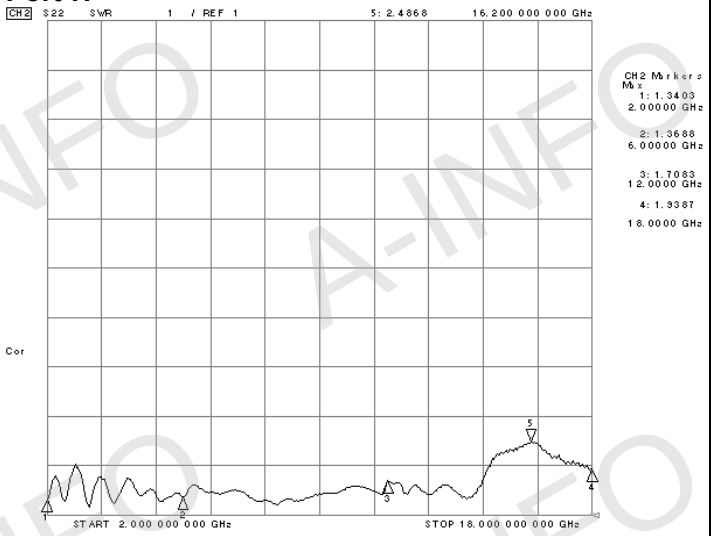

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# Open Boundary Quad-Ridged Horn Antenna 2.0~18.0GHz (continued)

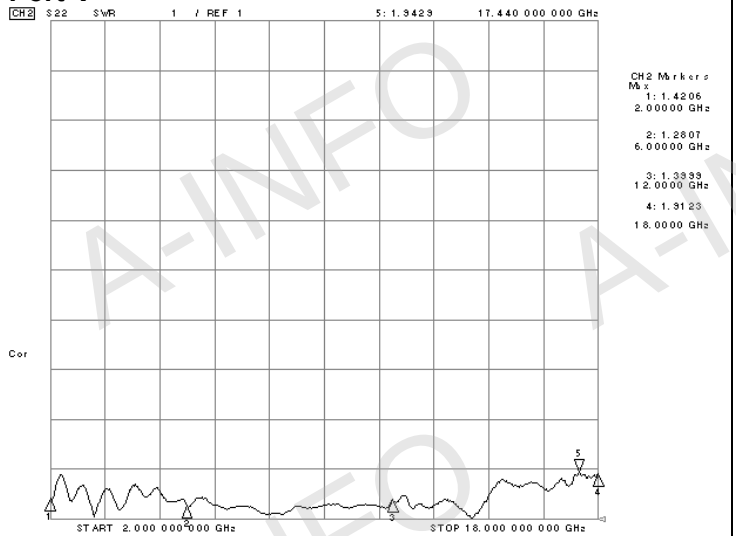
**P/N: LB-OSJ-20180**

**VSWR**

**Port-H**

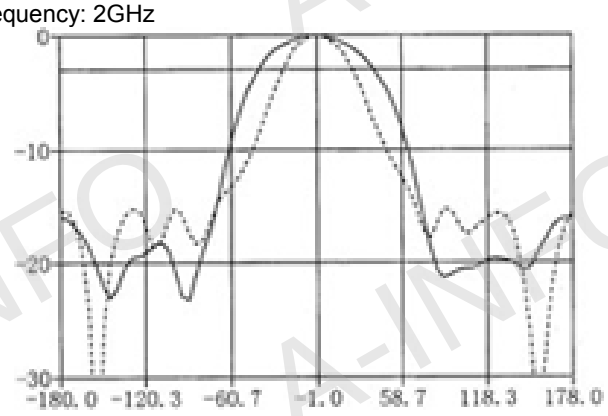



**Port-V**




**Pattern (Tested by A-INFO)**

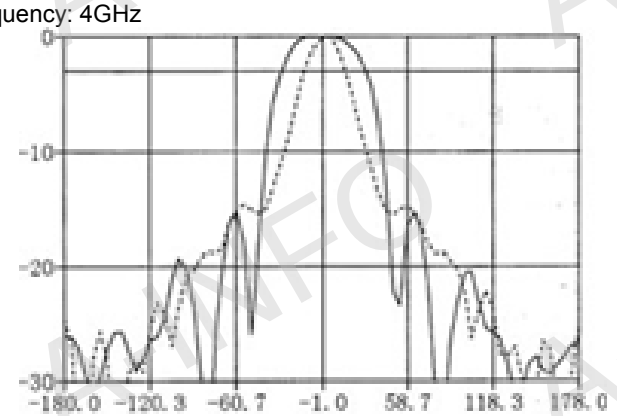
Frequency: 2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 80.04 3dB Beamwidth (deg): 48.44

Frequency: 4GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 58.42 3dB Beamwidth (deg): 28.14



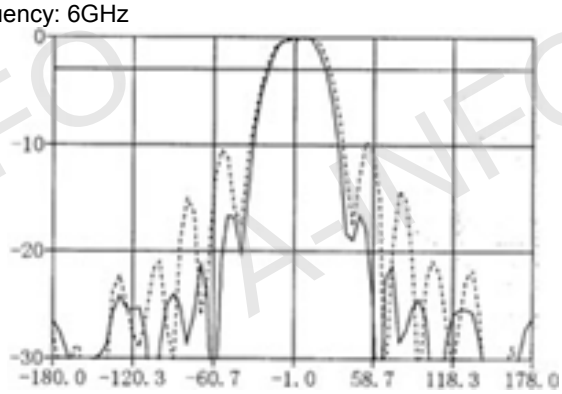
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# Open Boundary Quad-Ridged Horn Antenna 2.0~18.0GHz (continued)

**P/N: LB-OSJ-20180**

**Pattern (Tested by A-INFO)**

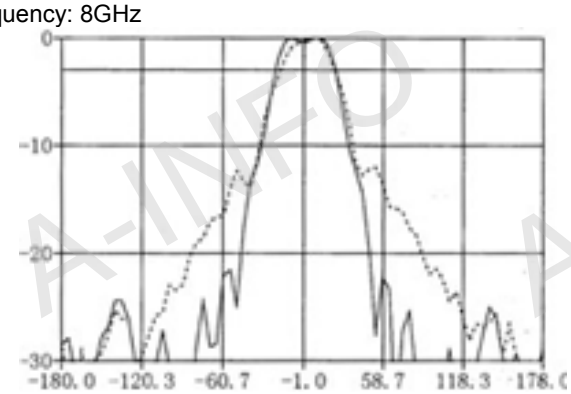
Frequency: 6GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 42.94 3dB Beamwidth (deg): 47.34

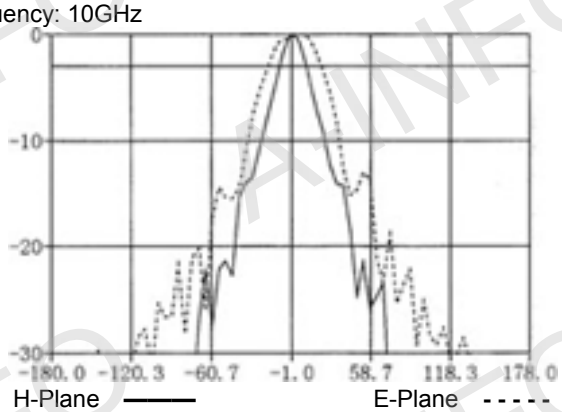
Frequency: 8GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 44.90 3dB Beamwidth (deg): 40.29

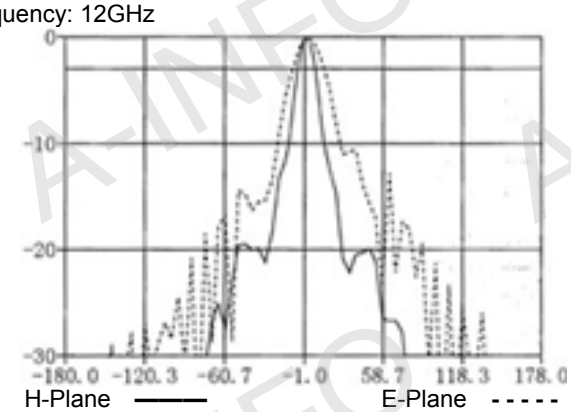
Frequency: 10GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 19.80 3dB Beamwidth (deg): 40.11

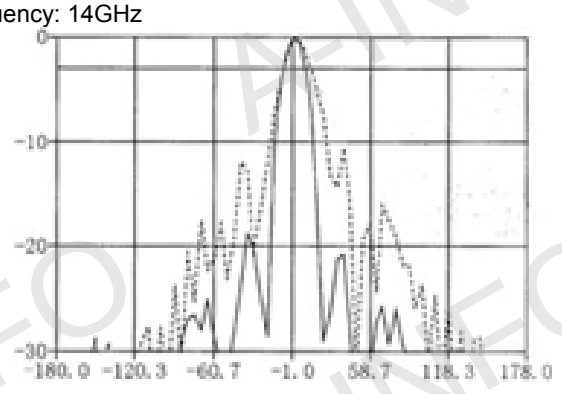
Frequency: 12GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 13.01 3dB Beamwidth (deg): 23.21

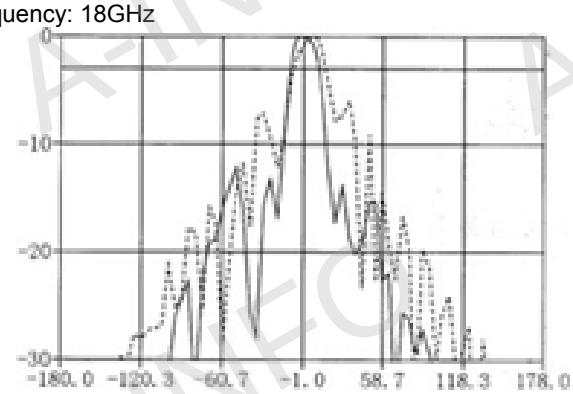
Frequency: 14GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 16.16 3dB Beamwidth (deg): 20.16

Frequency: 18GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 20.67 3dB Beamwidth (deg): 23.92



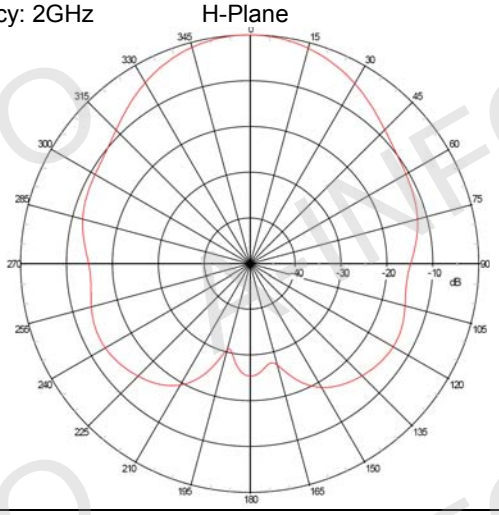
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# *Open Boundary Quad-Ridged Horn Antenna 2.0~18.0GHz (continued)*

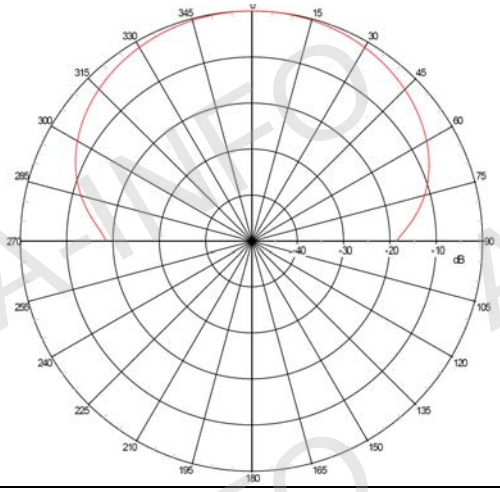
**P/N: LB-OSJ-20180**

**Pattern (Tested by NSI)**

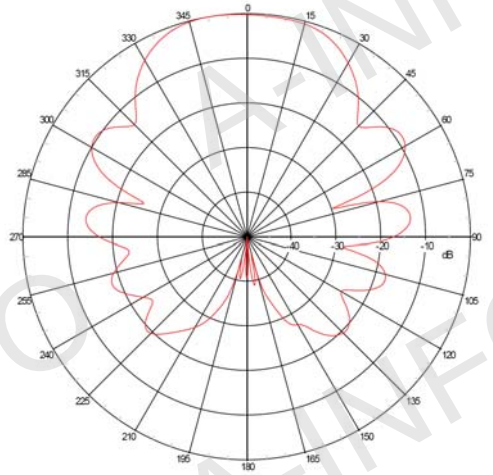
Frequency: 2GHz H-Plane



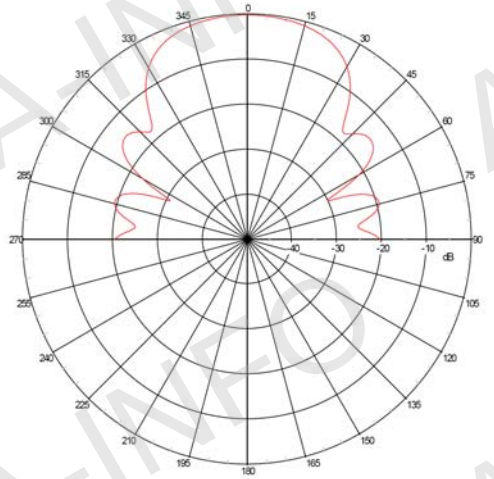
E-Plane



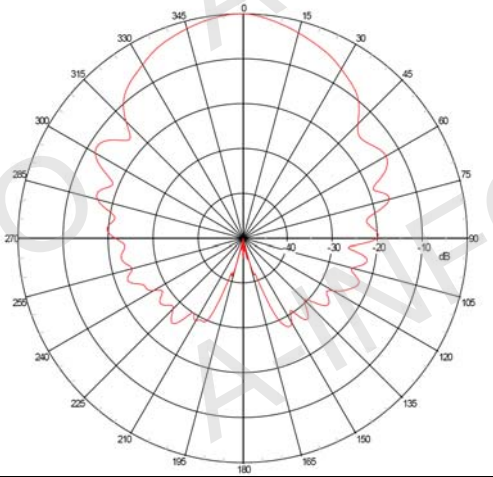
Frequency: 6GHz H-Plane



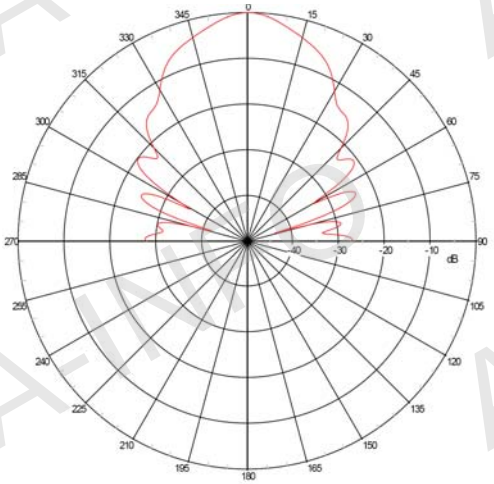
E-Plane



Frequency: 11GHz H-Plane



E-Plane





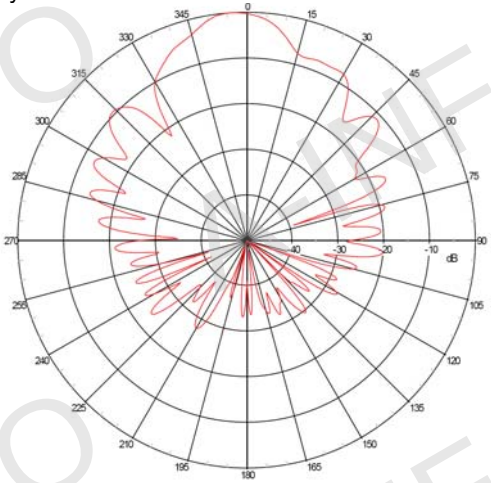
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# *Open Boundary Quad-Ridged Horn Antenna 2.0~18.0GHz (continued)*

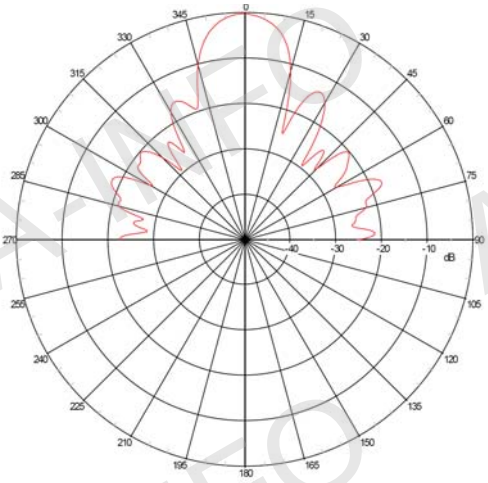
**P/N: LB-OSJ-20180**

**Pattern (Tested by NSI)**

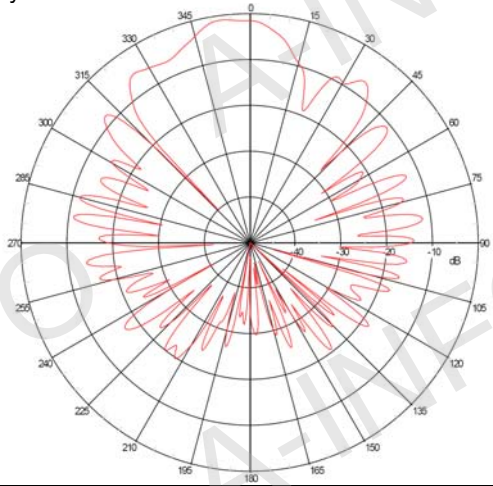
Frequency: 15GHz H-Plane



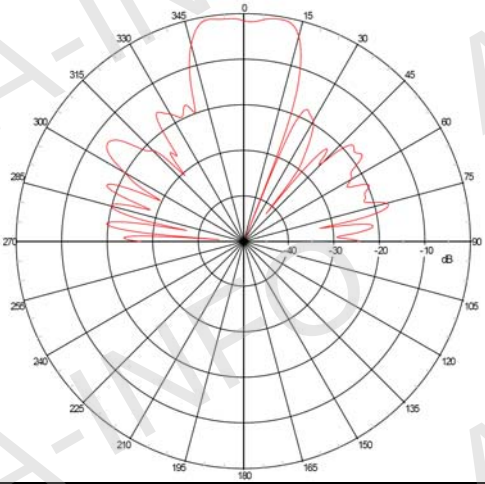
E-Plane



Frequency: 18GHz H-Plane



E-Plane





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# Options for Dual Polarization Horn Antenna



| Option | Description |
|---|---|
| P01 | Convert to LHCP |
| P02 | Conver to RHCP |
| P03 | Convert to Dual Circular |
| P04 | Convert to Vertical, Horizontal, LHCP, RHCP Switchable |

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Dual Pol. Horn Antenna and download.*

| Model | Freq. Range (GHz) | Pol. | Gain (dBic) Typ. | VSWR Max | Connector |
|---|---|---|---|---|---|
| LB-OSJ-0760-P01 | 0.7-6.0 | LHCP | 10 | 2.0 | SMA-F |
| LB-OSJ-0760-P04 | 0.7-6.0 | V, H, LHCP, RHCP Switchable | 2-12 | 2.5Typ. | SMA-F |
| LB-OSJ-07100-P01 | 0.7-10.0 | LHCP | 10 | 2.0 | SMA-F |
| LB-OSJ-07100-P03 | 0.7-10.0 | Dual Circular | 10 | 2.0 | SMA-F |
| LB-OSJ-07100-P04 | 0.7-10.0 | V, H, LHCP, RHCP Switchable | 2-12 | 2.5Typ. | SMA-F |
| LB-OSJ-20180-P01 | 2.0-18.0 | LHCP | 13 | 2.0 | SMA-F |
| LB-OSJ-20180-P02 | 2.0-18.0 | RHCP | 13 | 2.0 | SMA-F |
| LB-OSJ-20180-P03 | 2.0-18.0 | Dual Circular | 13 | 2.0 | SMA-F |
| LB-SJ-10100-P01 | 1.0-10.0 | LHCP | 11 | 1.5 | SMA-F |
| LB-SJ-10100-P02 | 1.0-10.0 | RHCP | 11 | 1.5 | SMA-F |
| LB-SJ-10100-P03 | 1.0-10.0 | Dual Circular | 11 | 1.5 | SMA-F |
| LB-SJ-20180-P03 | 2.0-18.0 | Dual Circular | 14.0 | 2.0 | SMA-F |
| LB-SJ-60180-P01 | 6.0-18.0 | LHCP | 12 | 2.0 | SMA-F |
| LB-SJ-60180-P02 | 6.0-18.0 | RHCP | 12 | 2.0 | SMA-F |
| LB-SJ-60180-P03 | 6.0-18.0 | Dual Circular | 12 | 2.0 | SMA-F |
| LB-SJ-60245-P01 | 6.0-24.5 | LHCP | 13 | 2.0 | SMA-F |
| LB-SJ-60245-P02 | 6.0-24.5 | RHCP | 13 | 2.0 | SMA-F |
| LB-SJ-60245-P03 | 6.0-24.5 | Dual Circular | 13 | 2.0 | SMA-F |
| LB-SJ-180400-P01 | 18.0-40.0 | LHCP | 13.0 | 2.0 | 2.92mm-F |
| LB-SJ-180400-P02 | 18.0-40.0 | RHCP | 13.0 | 2.0 | 2.92mm-F |
| LB-SJ-180400-P03 | 18.0-40.0 | Dual Circular | 13.0 | 2.0 | 2.92mm-F |



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# Dual Circular Polarization Horn Antenna

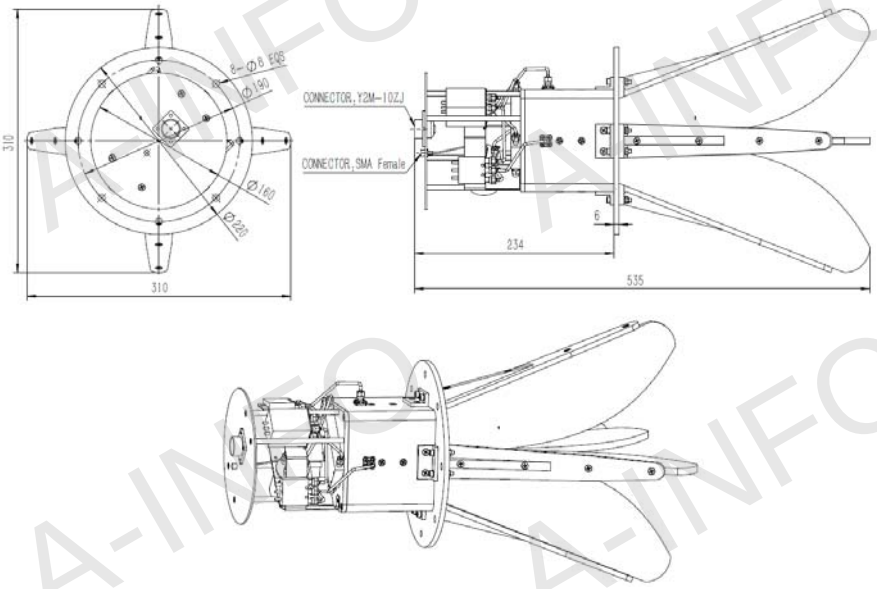
**P/N: LB-OSJ-07100-P04**



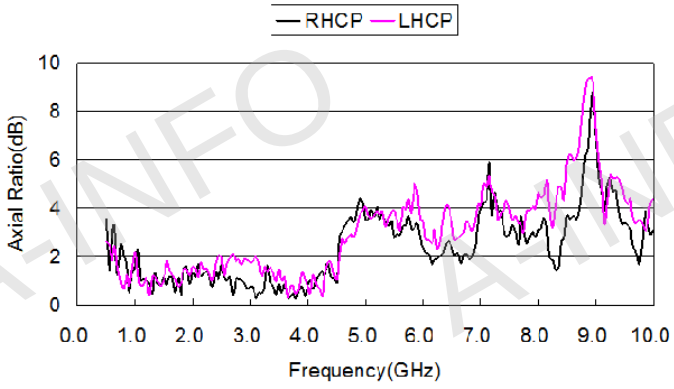
## Technical Specification

| | |
|---|---|
| **Polarization** | H,V, LHCP and RHCP Switchable |
| **Frequency(GHz)** | 0.7 - 10.0 |
| **Gain** | Linear: 2-14dB Typ. |
| | Circular: 2-12dBic Typ. |
| **Axial Ratio(dB) (Circular)** | 4.0 Typ. |
| | 10.0 Max |
| **VSWR** | 2.5 Typ. |
| **Connector** | SMA-Female |
| **Power Handling** | 20W CW (Cold Switching) |
| **Power Supply** | 12V DC |
| **Control** | TTL |
| **Control Connector** | Circular 10-Pin |
| **Size(mm)** | 310 x 310 x 535 |
| **Net Weight(Kg)** | 5.85 Around |

## Outline Drawing (Size: mm)




## Axial Ratio






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# *Dual Circular Polarization Horn Antenna(continued)*

**P/N: LB-OSJ-07100-P04**

## Standard Configuration

1. Antenna
2. Control Cable, 5m, with Circular 10-Pin connector on each side.

## Optional Accessories

1. Nonmetallic L type mounting bracket, for A-INFO tripod
2. Aluminum Tripod, 15Kg
3. Wooden Tripod, 15Kg

## Control Description

### 1. Pin Description

| Pin Number | Name | Description |
|---|---|---|
| 1 | NC | |
| 2 | +12V | +12V DC Supply input |
| 3 | GND | Ground |
| 4 | V | Polarization control :Vertical |
| 5 | H | Polarization control :Horizontal |
| 6 | C/L | Polarization control :Circular or Linear |
| 7 | R | Polarization control :RHCP |
| 8 | L | Polarization control :LHCP |
| 9 | NC | |
| 10 | NC | |

### 2. Function Table

| Pin / Pol. | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|
| V | 1* | 0 | 0 | 0 | 0 |
| H | 0 | 1* | 0 | 0 | 0 |
| RHCP | 0 | 0 | 1* | 1 | 0 |
| LHCP | 0 | 0 | 1* | 0 | 1 |

* TTL level should be keep at “1” (high level)

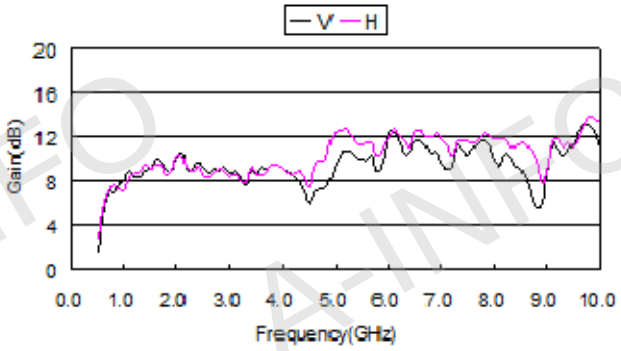


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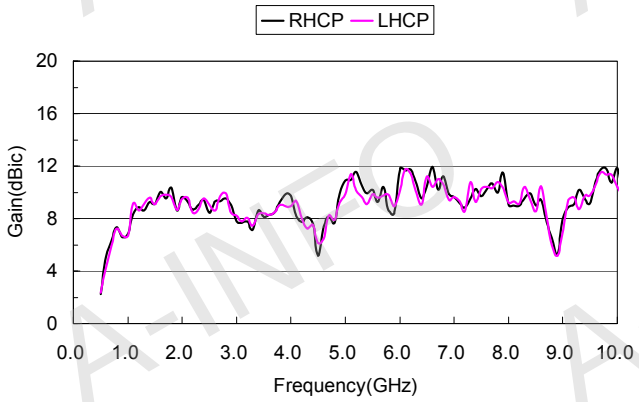
# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-07100-P04**

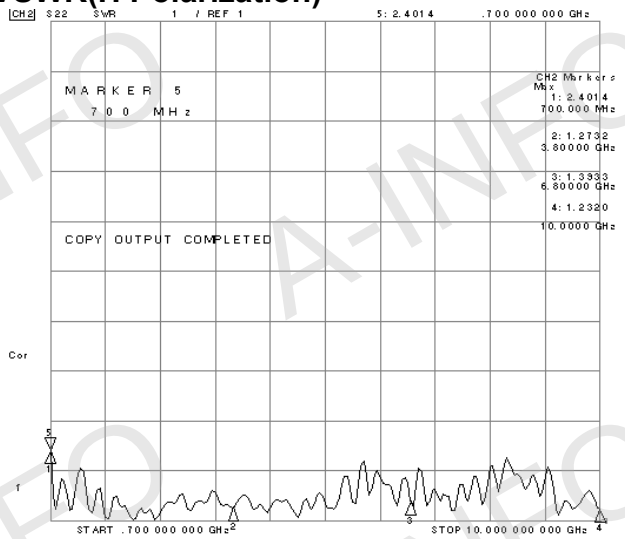
## Gain(Linear)



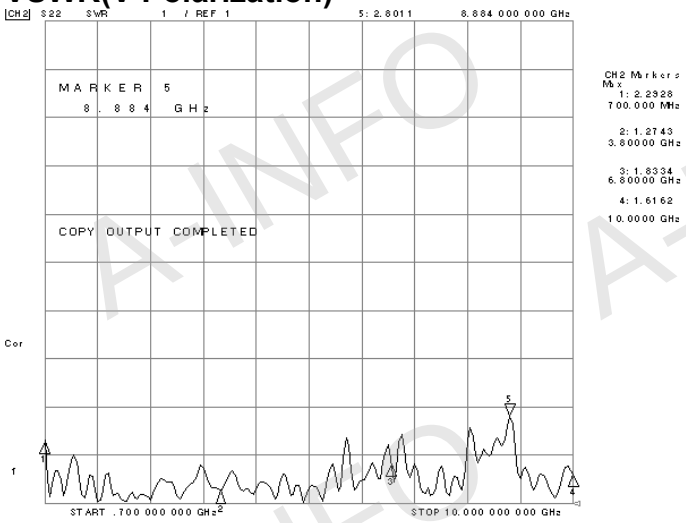

## Gain(Circular)



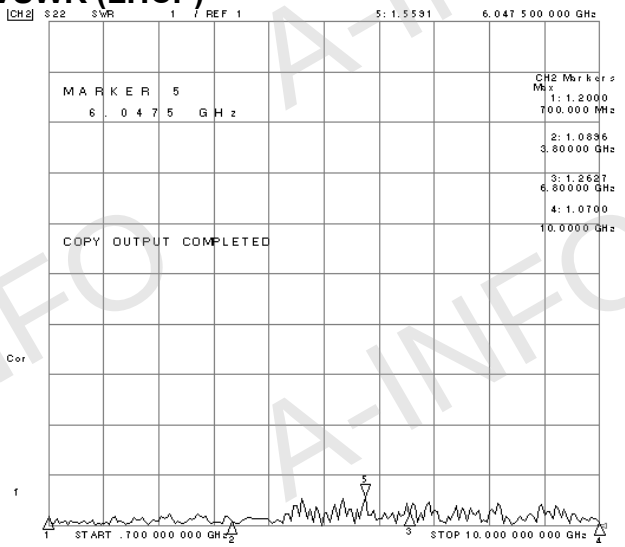

## VSWR(H Polarization)



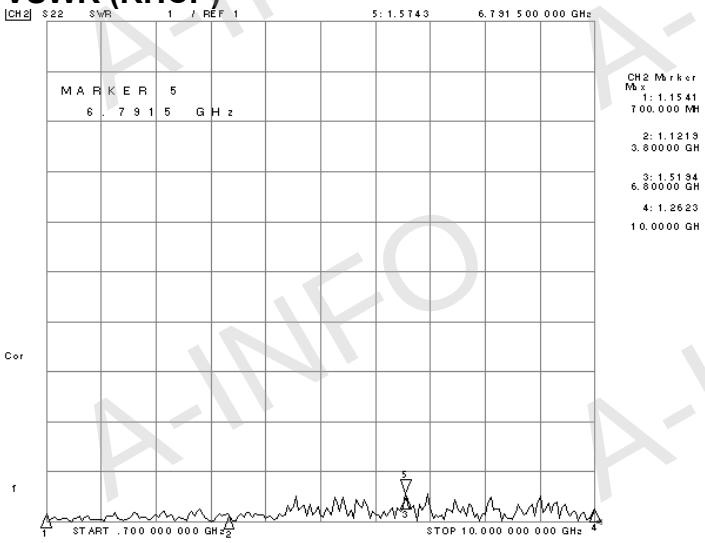

## VSWR(V Polarization)




## VSWR (LHCP)




## VSWR (RHCP)





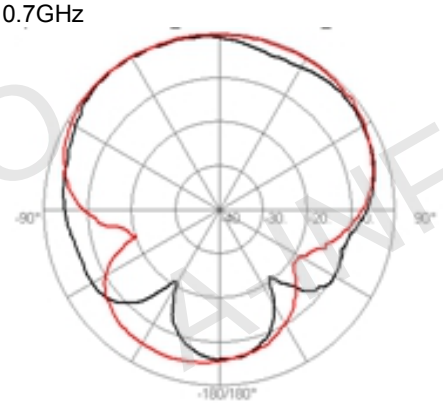

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# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-07100-P04**

**Pattern(Linear Polarization)**

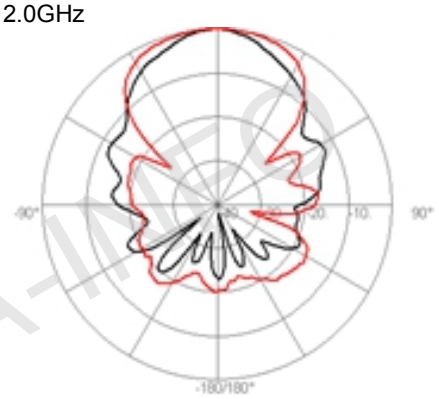
Frequency: 0.7GHz



H-Plane ——
3dB Beamwidth (deg): 141.39

E-Plane ——
3dB Beamwidth (deg): 83.37

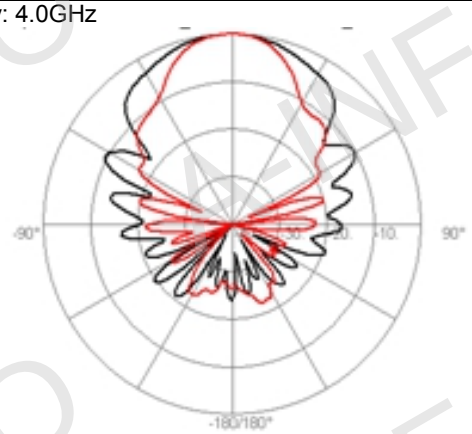
Frequency: 2.0GHz



H-Plane ——
3dB Beamwidth (deg): 60.93

E-Plane ——
3dB Beamwidth (deg): 36.65

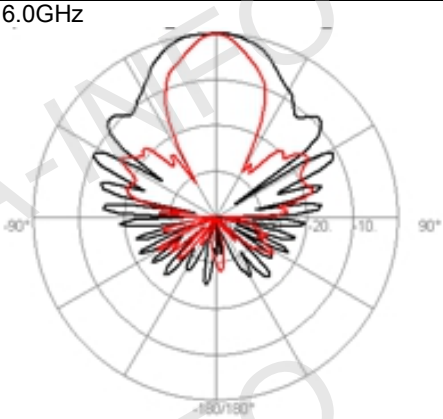
Frequency: 4.0GHz



H-Plane ——
3dB Beamwidth (deg): 33.35

E-Plane ——
3dB Beamwidth (deg): 52.76

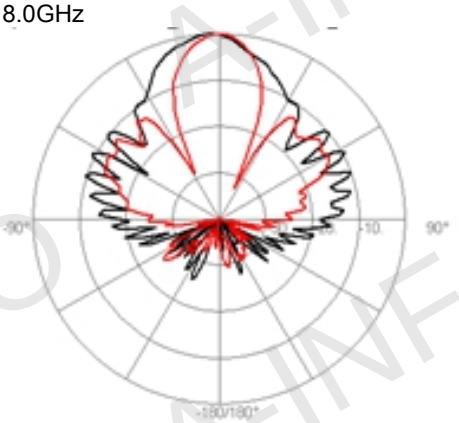
Frequency: 6.0GHz



H-Plane ——
3dB Beamwidth (deg): 17.75

E-Plane ——
3dB Beamwidth (deg): 38.19

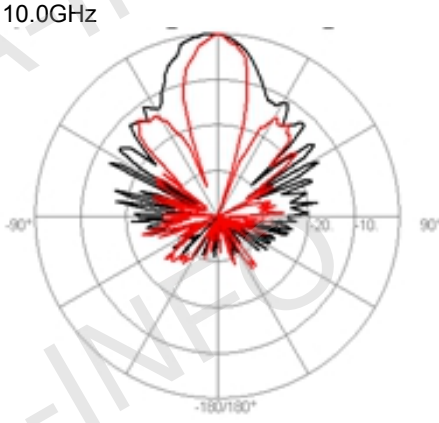
Frequency: 8.0GHz



H-Plane ——
3dB Beamwidth (deg): 19.73

E-Plane ——
3dB Beamwidth (deg): 26.96

Frequency: 10.0GHz



H-Plane ——
3dB Beamwidth (deg): 13.66

E-Plane ——
3dB Beamwidth (deg): 22.54



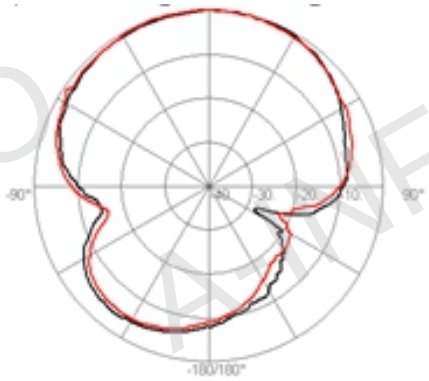
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# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-07100-P04**

**Pattern(LHCP)**

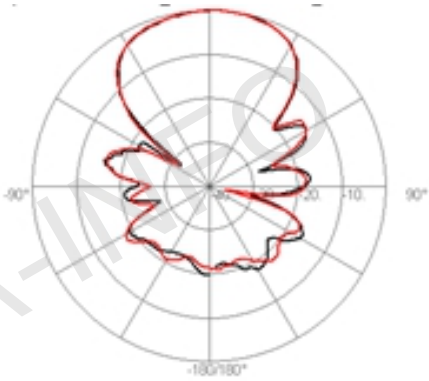
Frequency: 0.7GHz



H-Plane ——
3dB Beamwidth (deg): 118.25

E-Plane ——
3dB Beamwidth (deg): 113.96

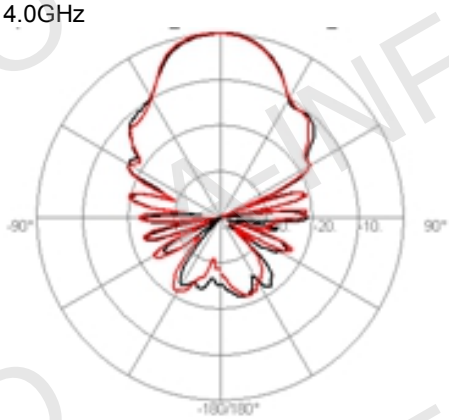
Frequency: 2.0GHz



H-Plane ——
3dB Beamwidth (deg): 59.97

E-Plane ——
3dB Beamwidth (deg): 59.70

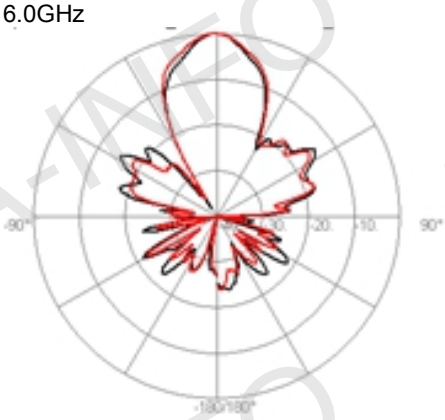
Frequency: 4.0GHz



H-Plane ——
3dB Beamwidth (deg): 34.60

E-Plane ——
3dB Beamwidth (deg): 34.33

Frequency: 6.0GHz



H-Plane ——
3dB Beamwidth (deg): 21.47

E-Plane ——
3dB Beamwidth (deg): 17.71

Frequency: 8.0GHz



H-Plane ——
3dB Beamwidth (deg): 22.38

E-Plane ——
3dB Beamwidth (deg): 19.92

Frequency: 10.0GHz



H-Plane ——
3dB Beamwidth (deg): 13.61

E-Plane ——
3dB Beamwidth (deg): 15.75



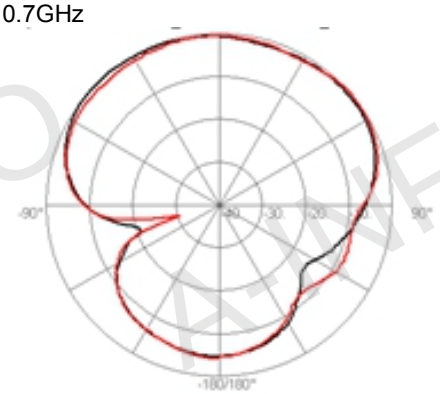
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# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-07100-P04**

**Pattern(RHCP)**

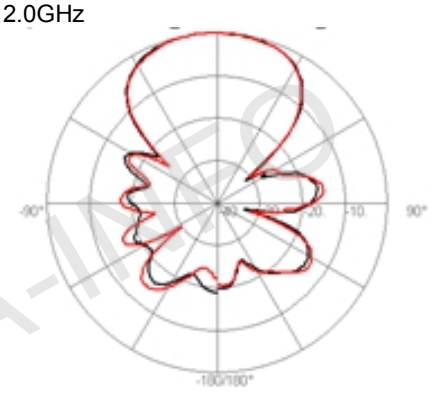
Frequency: 0.7GHz



H-Plane ——
3dB Beamwidth (deg): 151.12

E-Plane ——
3dB Beamwidth (deg): 150.16

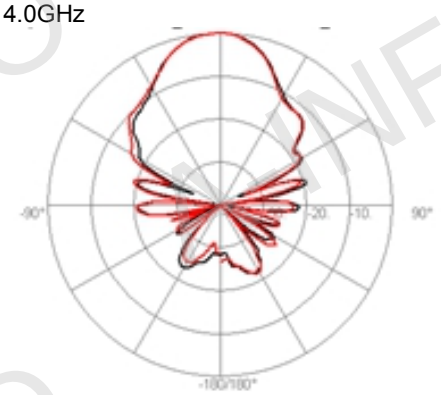
Frequency: 2.0GHz



H-Plane ——
3dB Beamwidth (deg): 60.41

E-Plane ——
3dB Beamwidth (deg): 61.91

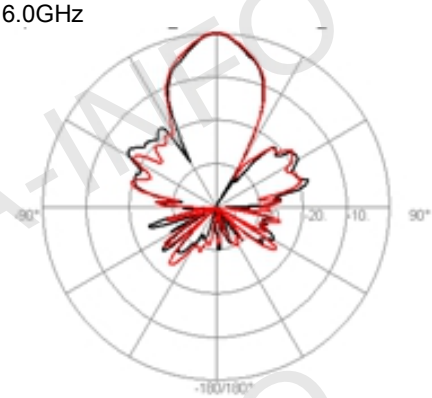
Frequency: 4.0GHz



H-Plane ——
3dB Beamwidth (deg): 32.01

E-Plane ——
3dB Beamwidth (deg): 32.55

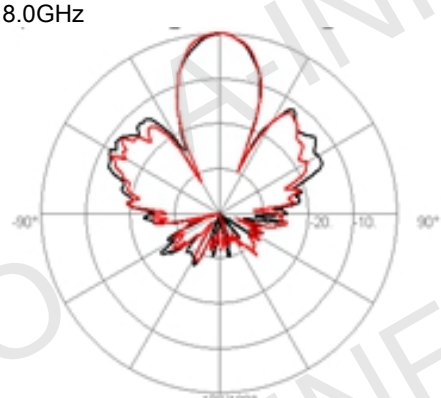
Frequency: 6.0GHz



H-Plane ——
3dB Beamwidth (deg): 20.78

E-Plane ——
3dB Beamwidth (deg): 18.12

Frequency: 8.0GHz



H-Plane ——
3dB Beamwidth (deg): 21.39

E-Plane ——
3dB Beamwidth (deg): 19.61

Frequency: 10.0GHz



H-Plane ——
3dB Beamwidth (deg): 18.62

E-Plane ——
3dB Beamwidth (deg): 15.54



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# Dual Circular Polarization Horn Antenna

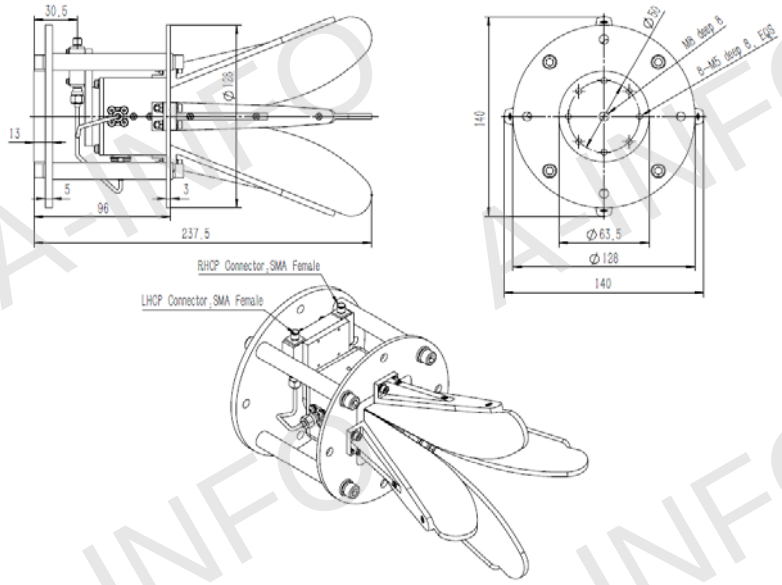
**P/N: LB-OSJ-20180-P03**



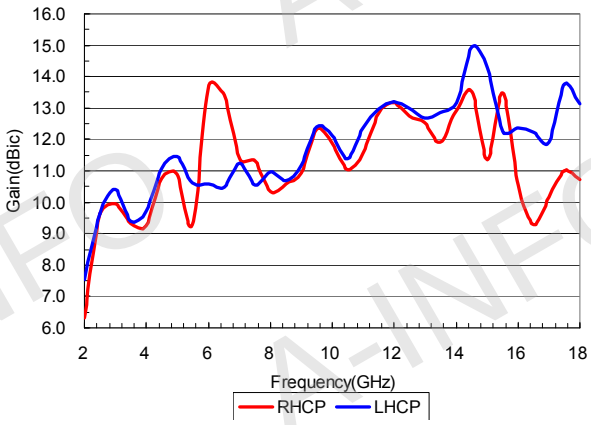
## Technical Specification

| | |
|---|---|
| Frequency(GHz) | 2.0-18.0 |
| Gain(dBic) | 11.5 Typ. |
| Polarization | Dual Circular |
| VSWR | 2.0:1 Max |
| Axial Ratio(dB) | 4.0 Typ.<br>9.0 Max |
| 3dB Beamwidth(deg) | 14-90 |
| Port to Port Isolation(dB) | 15 Typ. |
| Connector | SMA-Female |
| Power Handling(W) | 20 Max. CW |
| Size(mm) | 140 x 140 x 237.5 |
| Net Weight(Kg) | 1.1 Around |

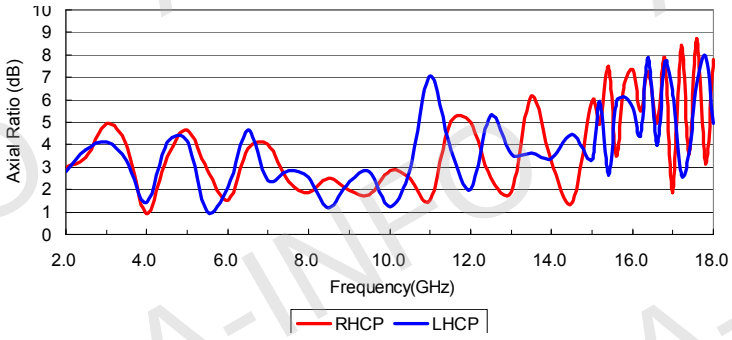
## Outline Drawing (Size: mm)




## Gain




## Axial Ratio



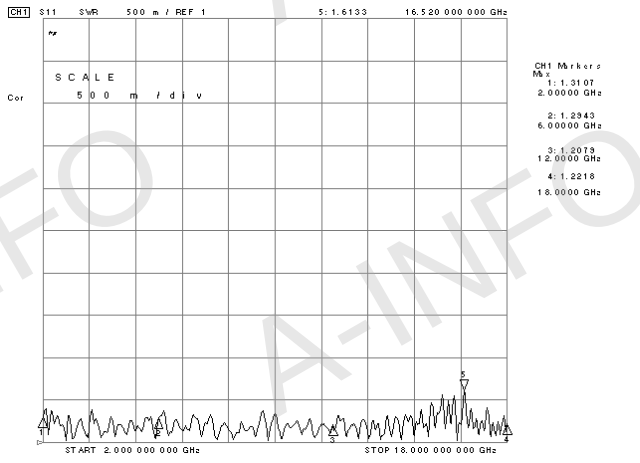



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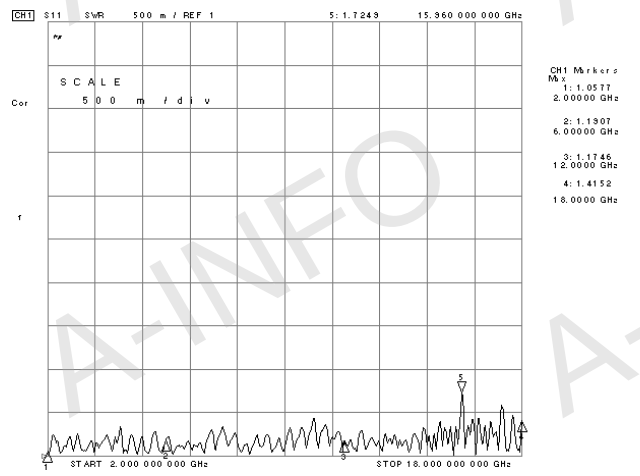
# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-20180-P03**

**VSWR_LHCP**

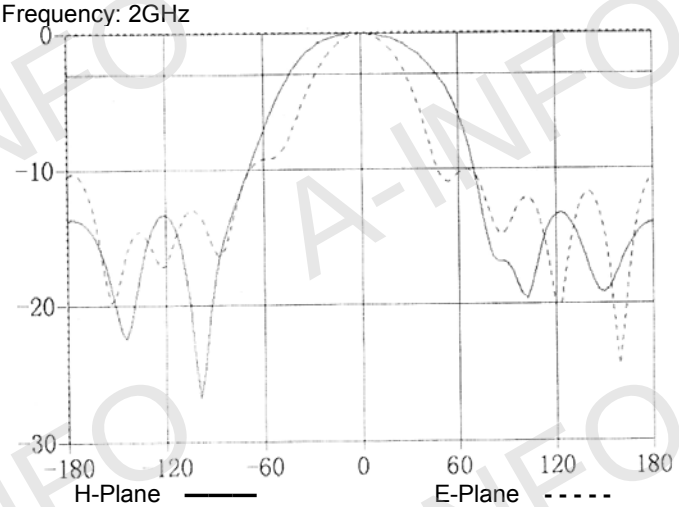



**VSWR_ RHCP**




**Pattern(LHCP)**

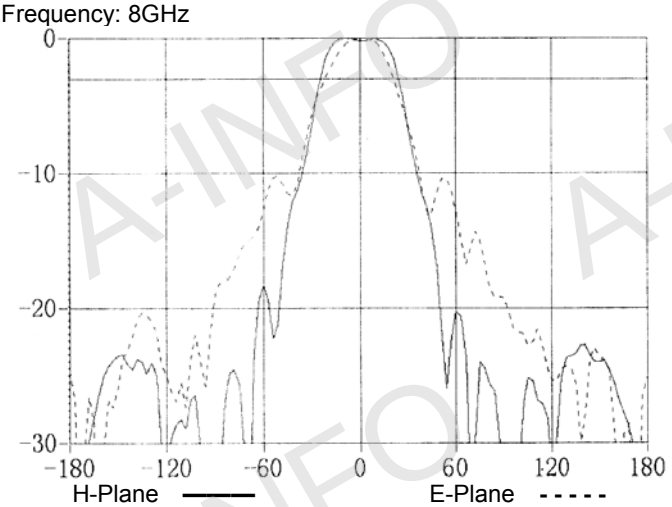
Frequency: 2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 90.19 3dB Beamwidth (deg): 55.56

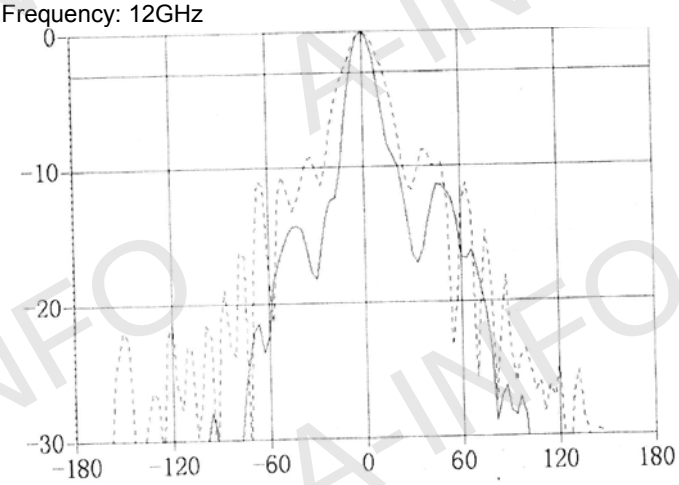
Frequency: 8GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 48.79 3dB Beamwidth (deg): 42.33

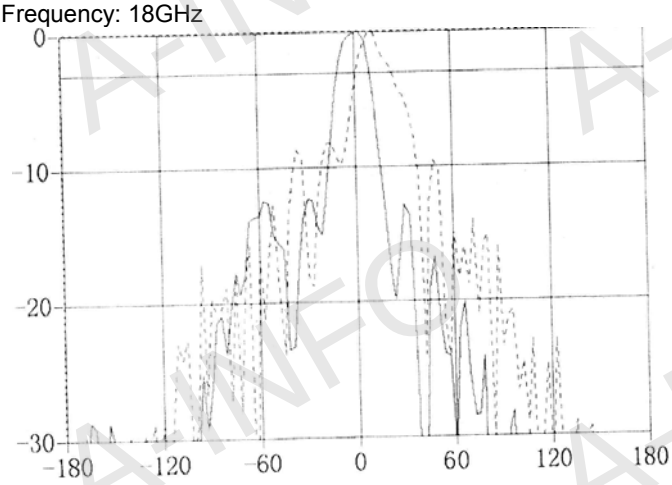
Frequency: 12GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 15.91 3dB Beamwidth (deg): 25.26

Frequency: 18GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 20.04 3dB Beamwidth (deg): 22.29



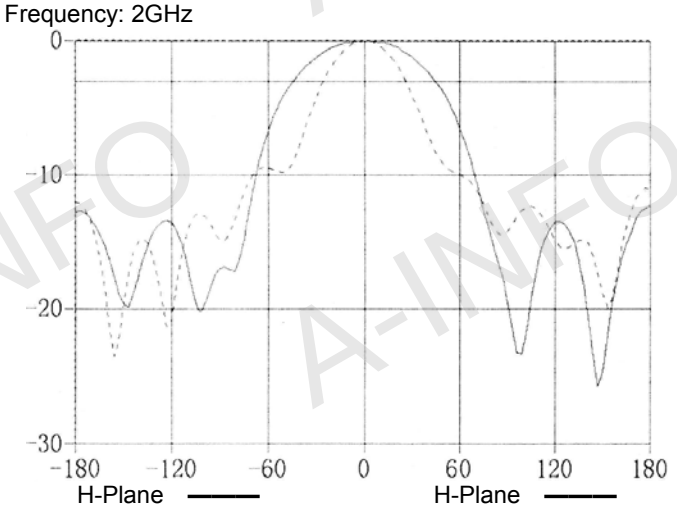
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# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-OSJ-20180-P03**

**Pattern(RHCP)**

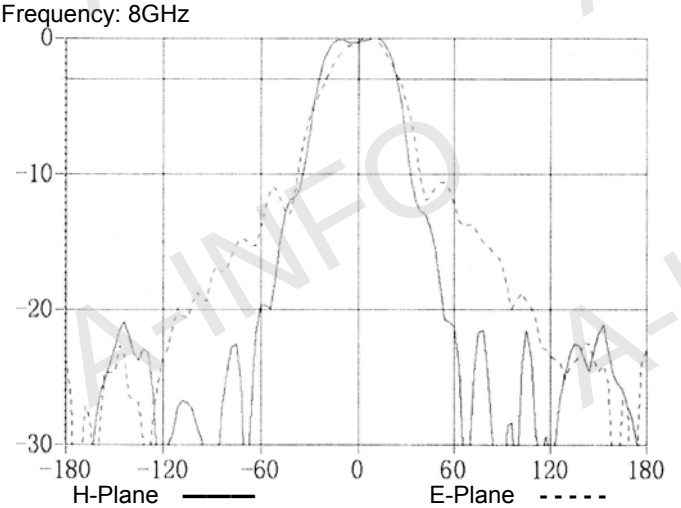
Frequency: 2GHz




H-Plane ——— H-Plane ———

3dB Beamwidth (deg): 89.28 3dB Beamwidth (deg): 51.78

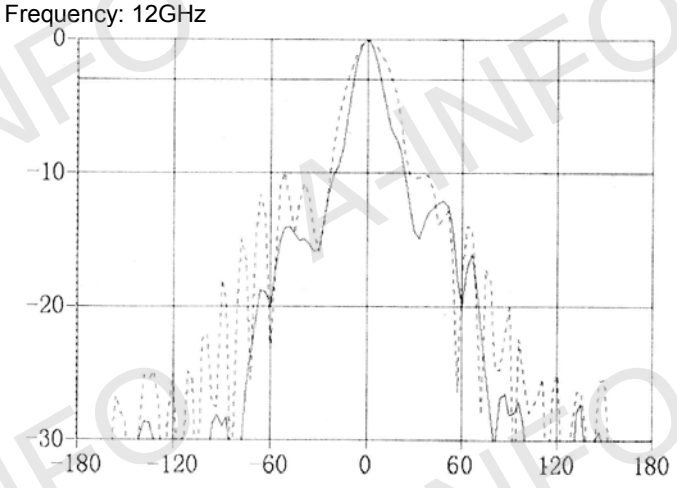
Frequency: 8GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 48.02 3dB Beamwidth (deg): 44.69

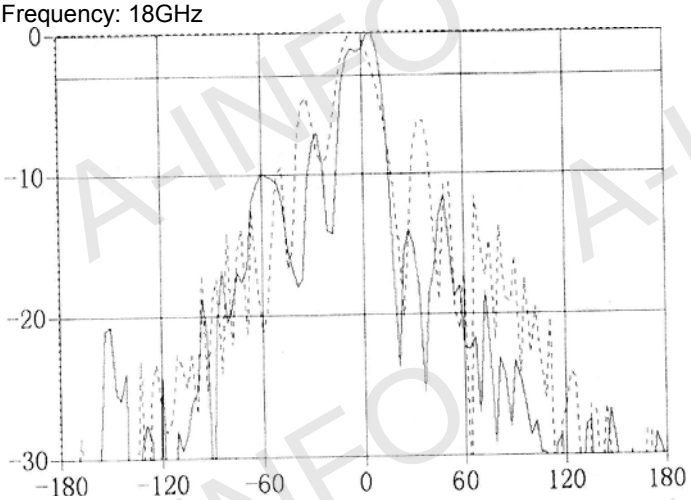
Frequency: 12GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 16.94 3dB Beamwidth (deg): 27.79

Frequency: 18GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 22.14 3dB Beamwidth (deg): 20.76



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# Dual Circular Polarization Horn Antenna

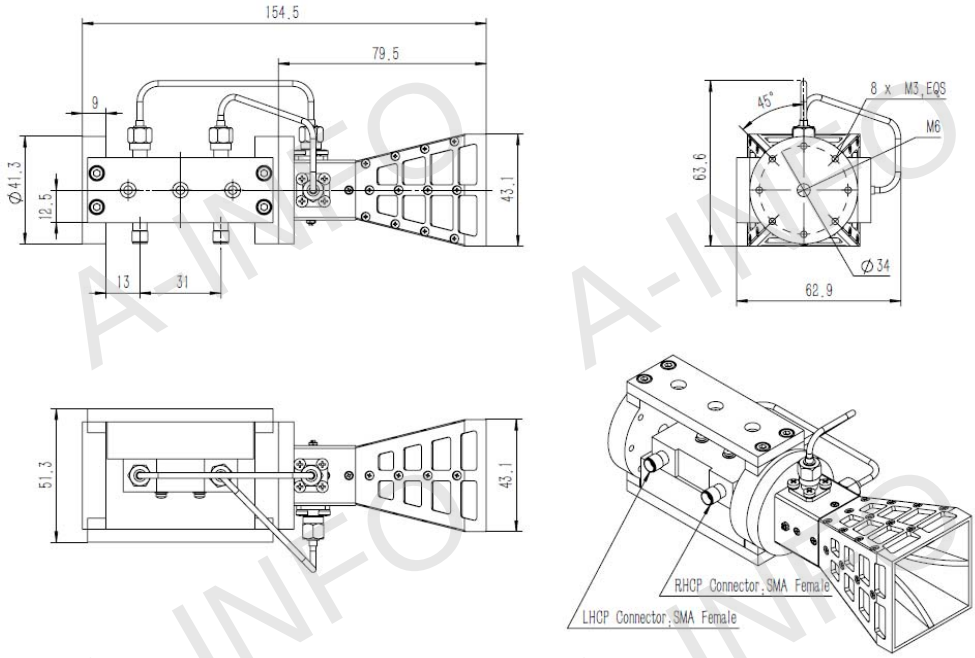
**P/N: LB-SJ-60180-P03**



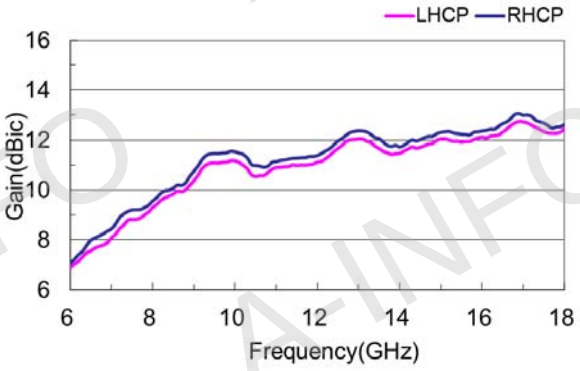
## Technical Specification

| | |
|---|---|
| Frequency(GHz) | 6.0-18.0 |
| Gain(dBic) | 12 Typ. |
| Polarization | Dual Circular |
| VSWR | 2.0 Max. |
| Axial Ratio(dB) | 2.0 Typ.<br>4.0 Max. |
| 3dB Beamwidth(deg) | 75-29 |
| Port to Port Isolation(dB) | 15 Typ. |
| Connector | SMA-Female |
| Power Handling(W) | 20 Max. CW |
| Size(mm) | 62.9 x 63.6 x154.5 |
| Net Weight(Kg) | 1.5 Around |

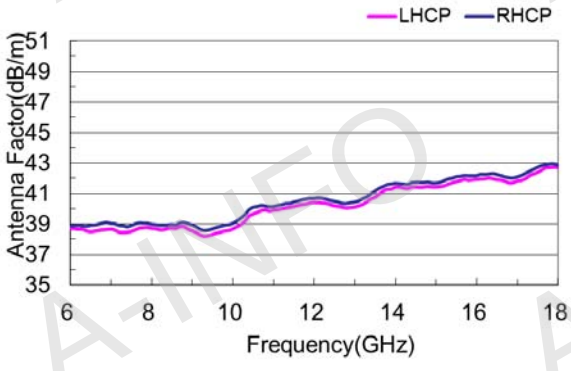
## Outline Drawing (Size: mm)




## Gain




## Antenna Factor



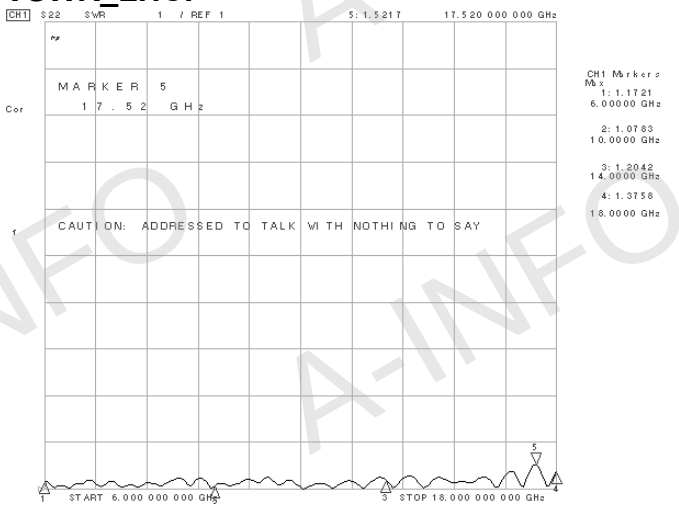



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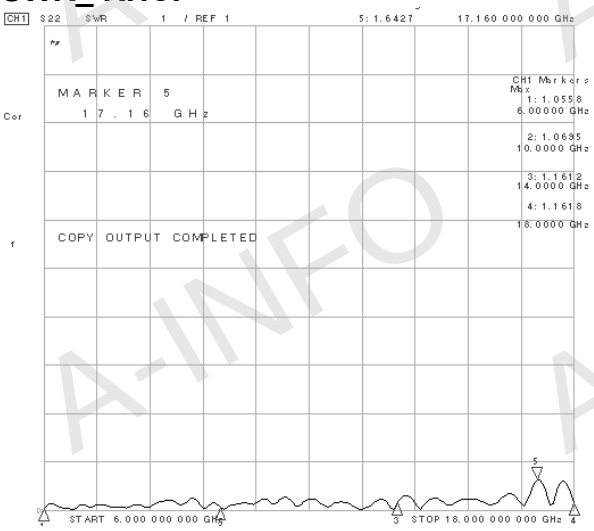
# Dual Circular Polarization Horn Antenna(continued)

## P/N: LB-SJ-60180-P03

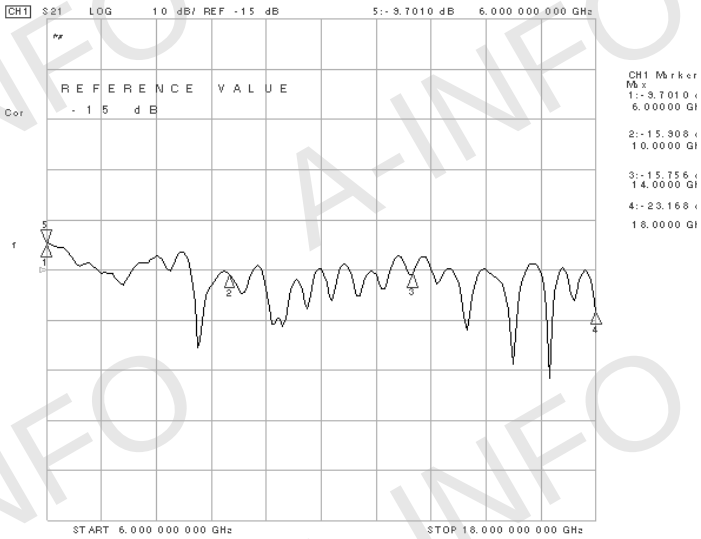
### VSWR_LHCP



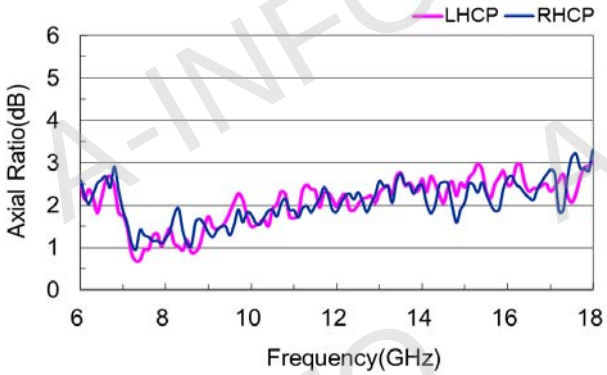

### VSWR_ RHCP



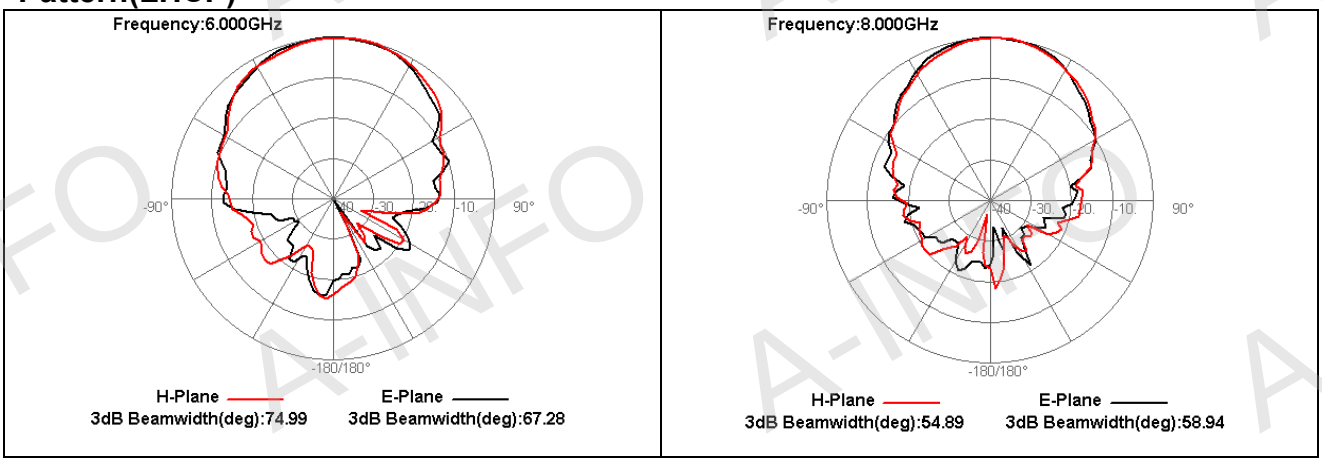

### Port to Port Isolation




### Axial Ratio




### Pattern(LHCP)





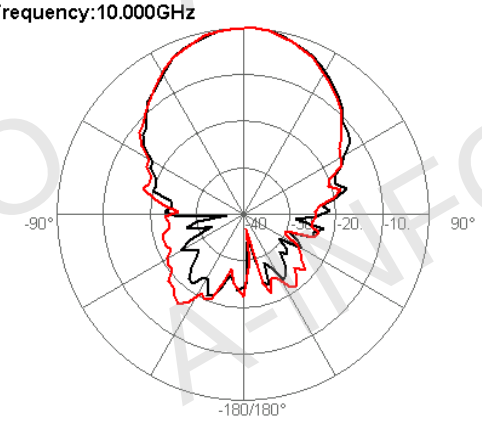

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# Dual Circular Polarization Horn Antenna(continued)

## P/N: LB-SJ-60180-P03

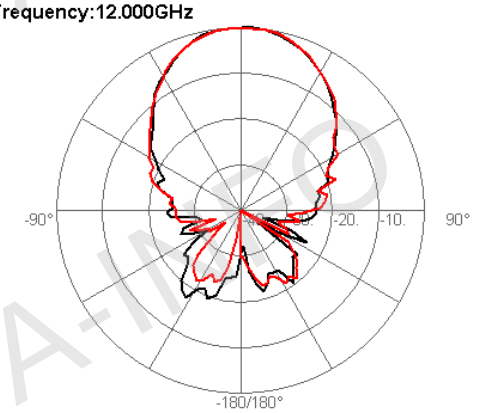
### Pattern(LHCP)

Frequency:10.000GHz



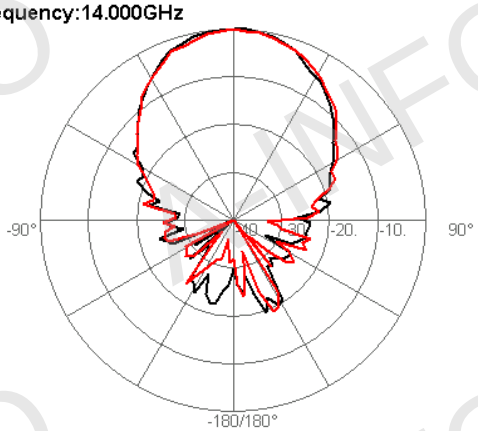

H-Plane 3dB Beamwidth(deg):45.33
E-Plane 3dB Beamwidth(deg):47.48

Frequency:12.000GHz



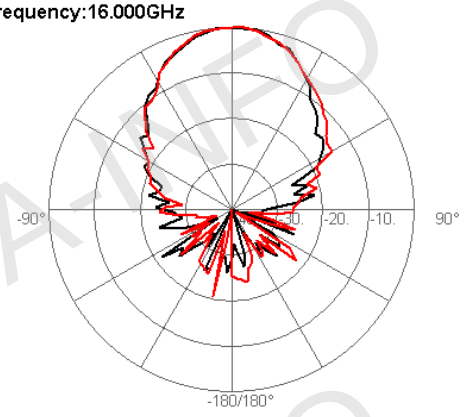

H-Plane 3dB Beamwidth(deg):43.68
E-Plane 3dB Beamwidth(deg):43.12

Frequency:14.000GHz



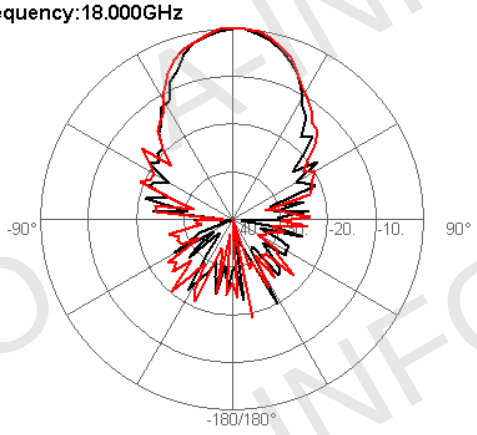

H-Plane 3dB Beamwidth(deg):44.13
E-Plane 3dB Beamwidth(deg):43.68

Frequency:16.000GHz




H-Plane 3dB Beamwidth(deg):38.13
E-Plane 3dB Beamwidth(deg):38.59

Frequency:18.000GHz




H-Plane 3dB Beamwidth(deg):32.82
E-Plane 3dB Beamwidth(deg):29.86

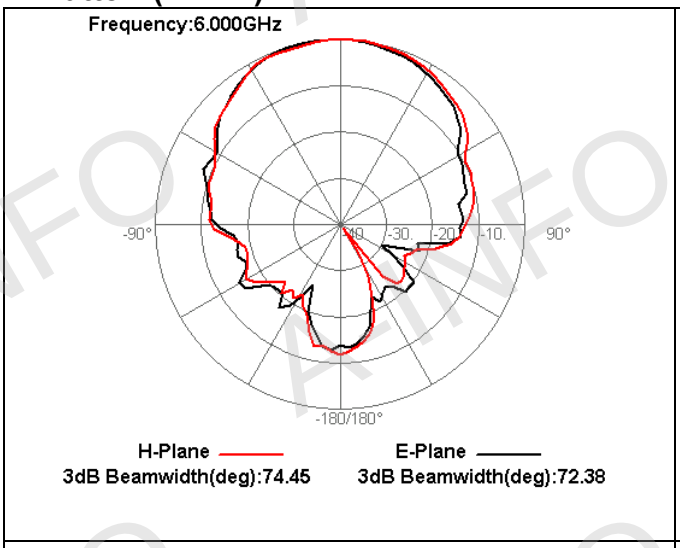


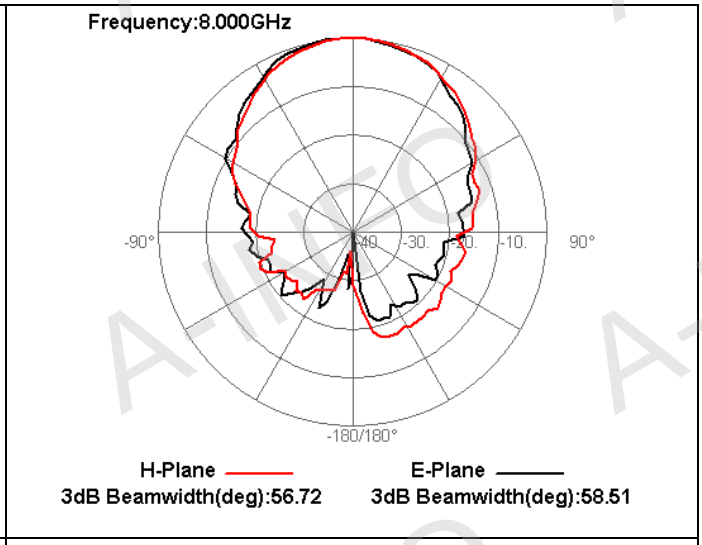
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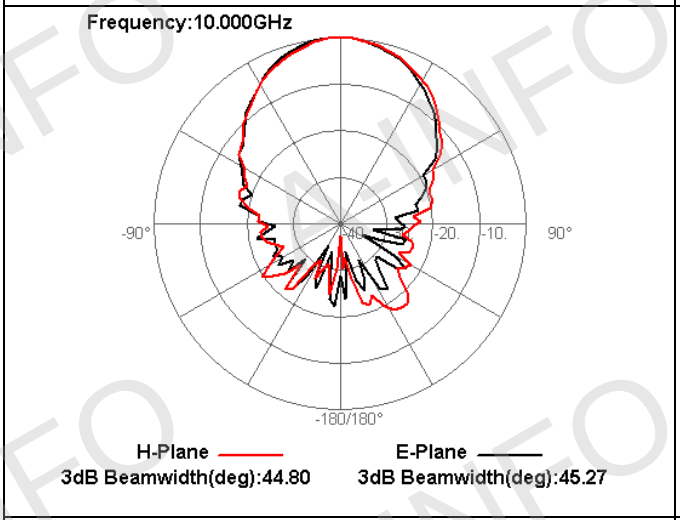
# Dual Circular Polarization Horn Antenna(continued)

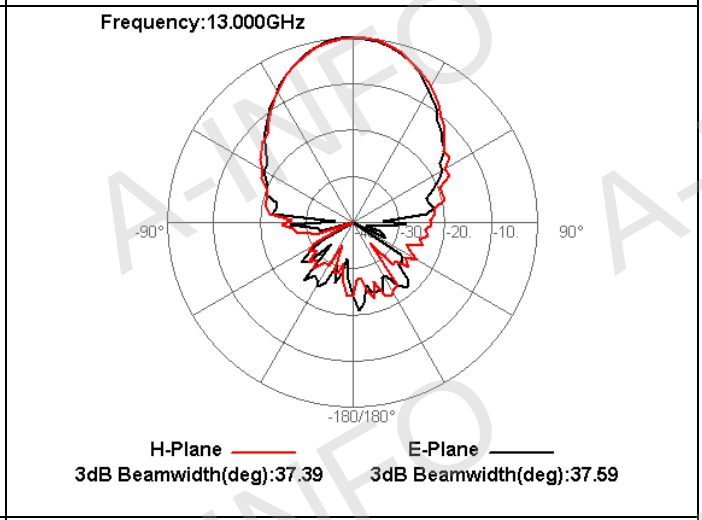
## P/N: LB-SJ-60180-P03

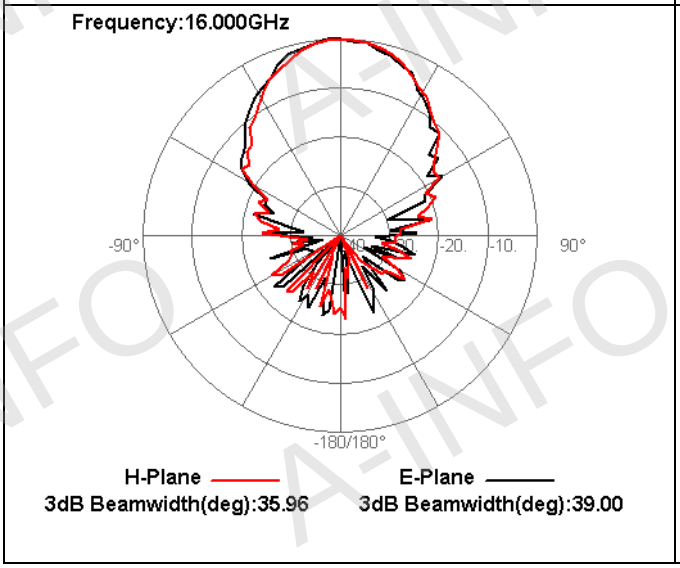
### Pattern(RHCP)

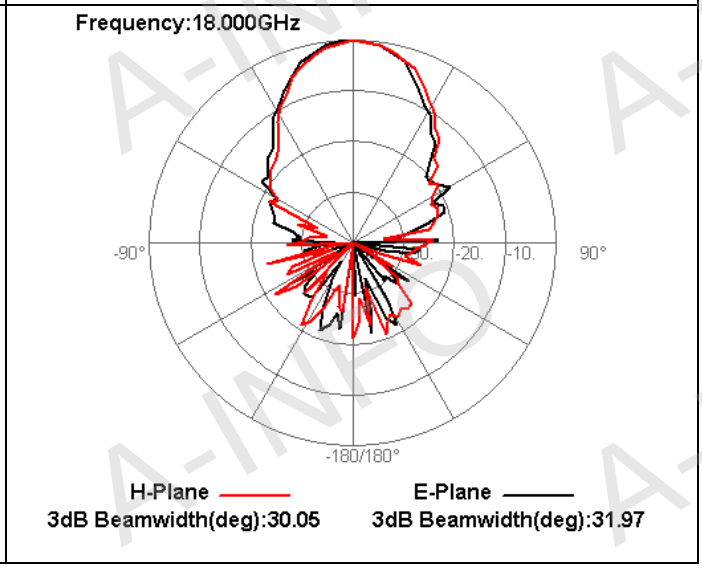





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# Dual Circular Polarization Horn Antenna

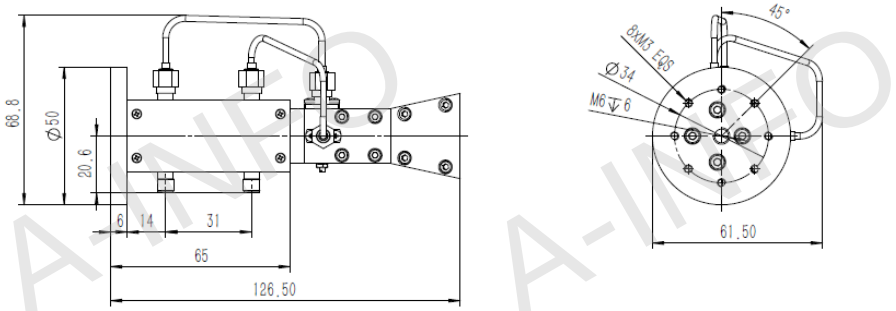
**P/N: LB-SJ-180400-P03**

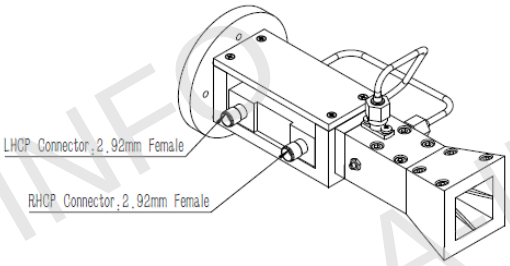


## Technical Specification

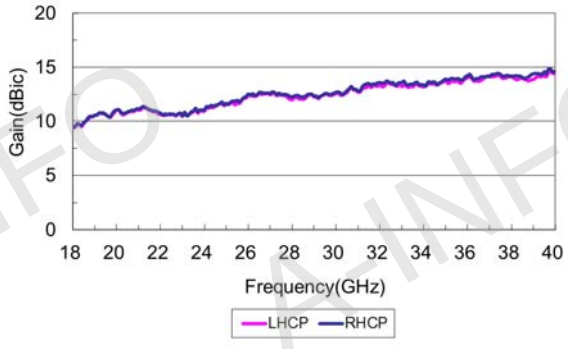
| | |
|---|---|
| Frequency(GHz) | 18-40 |
| Gain(dBic) | 13 Typ. |
| Polarization | Dual Circular |
| VSWR | 2.0 Max. |
| Axial Ratio(dB) | 1.5 Typ. |
| | 3.0 Max. |
| 3dB Beamwidth(deg) | 53-26 |
| Port to Port Isolation(dB) | 15 Typ. |
| Connector | 2.92mm-Female |
| Size(mm) | 61.5x68.8x126.5 |
| Net Weight(Kg) | 0.38 Around |

## Outline Drawing (Size: mm)

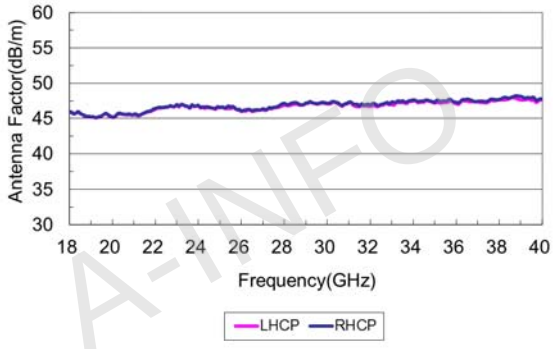



## Gain




## Antenna Factor



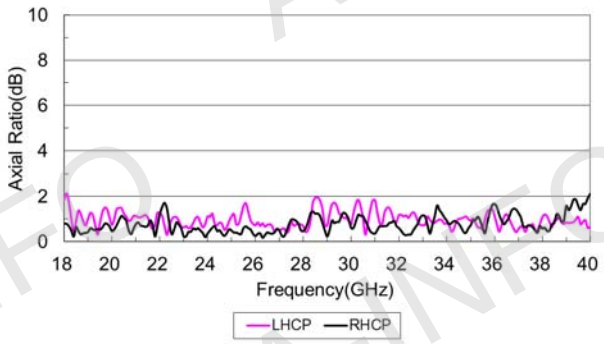



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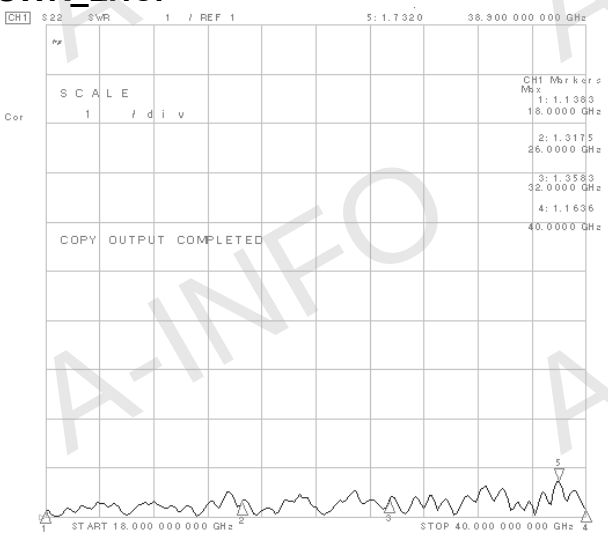
# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-SJ-180400-P03**

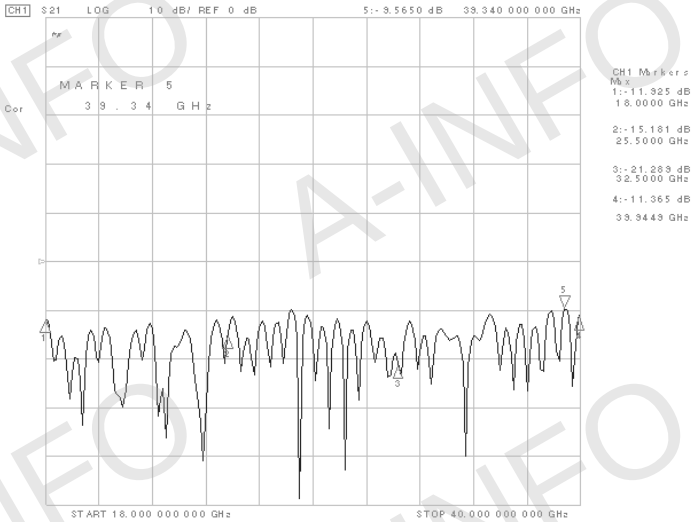
## Axial Ratio



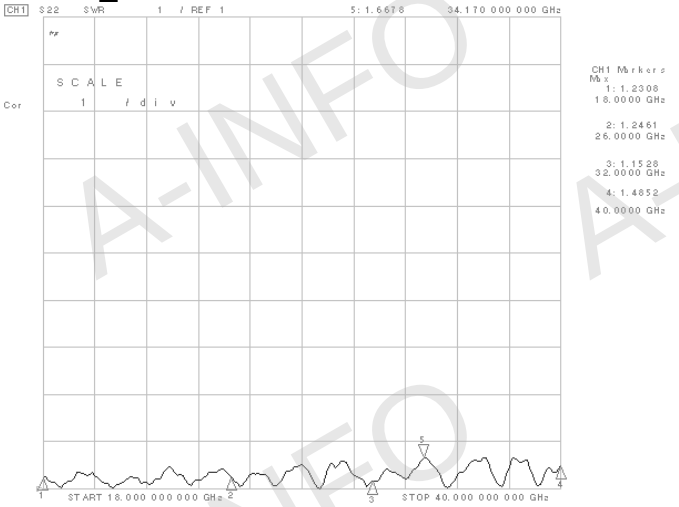

## VSWR_LHCP



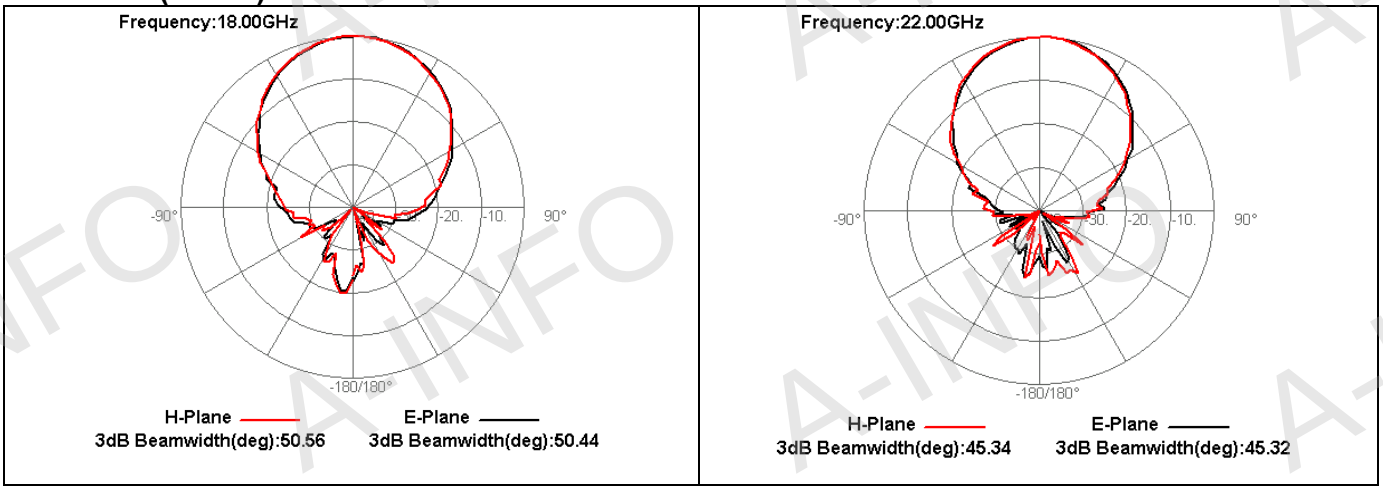

## Port to Port Isolation




## VSWR_ RHCP




## Pattern(LHCP)



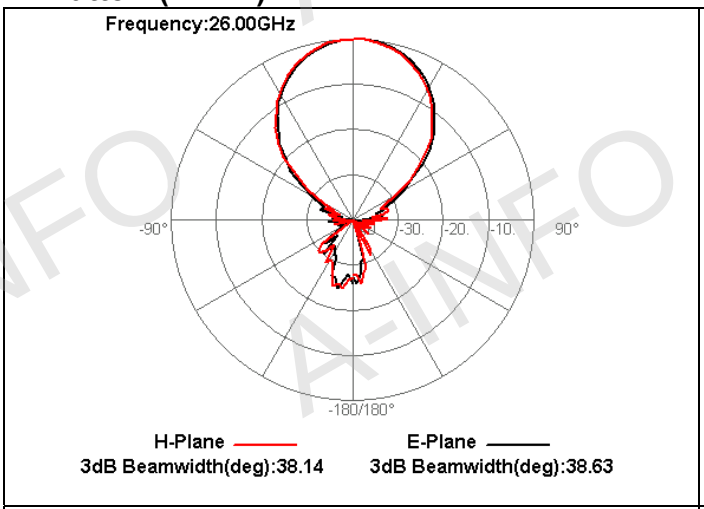



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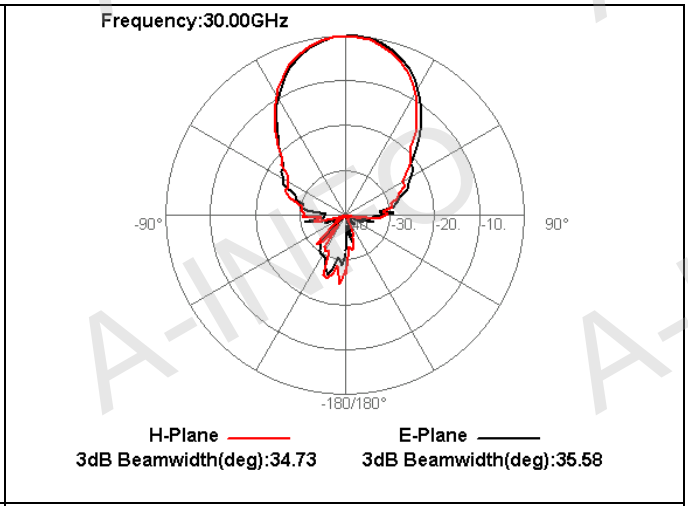
# Dual Circular Polarization Horn Antenna(continued)

## P/N: LB-SJ-180400-P03

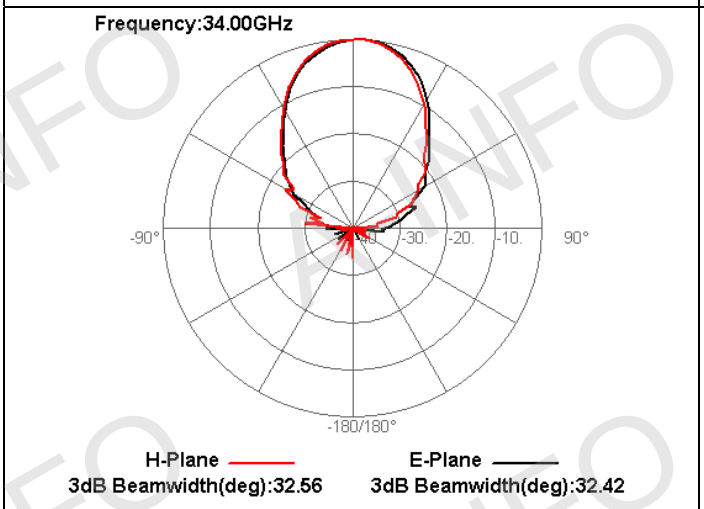
### Pattern(LHCP)



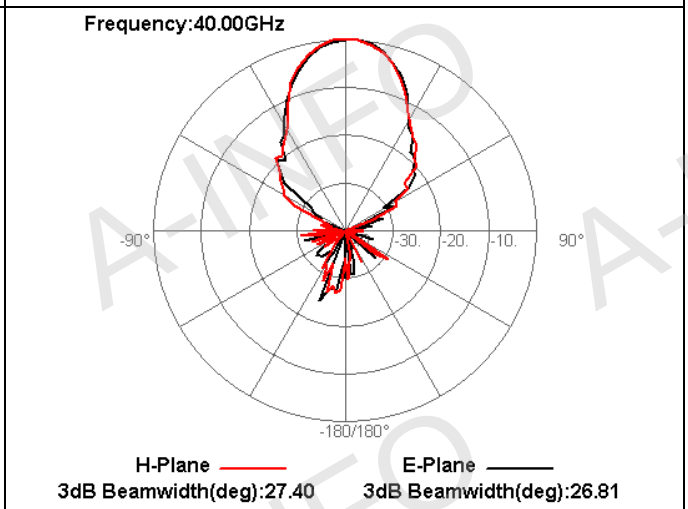

3dB Beamwidth(deg):38.14 3dB Beamwidth(deg):38.63




3dB Beamwidth(deg):34.73 3dB Beamwidth(deg):35.58

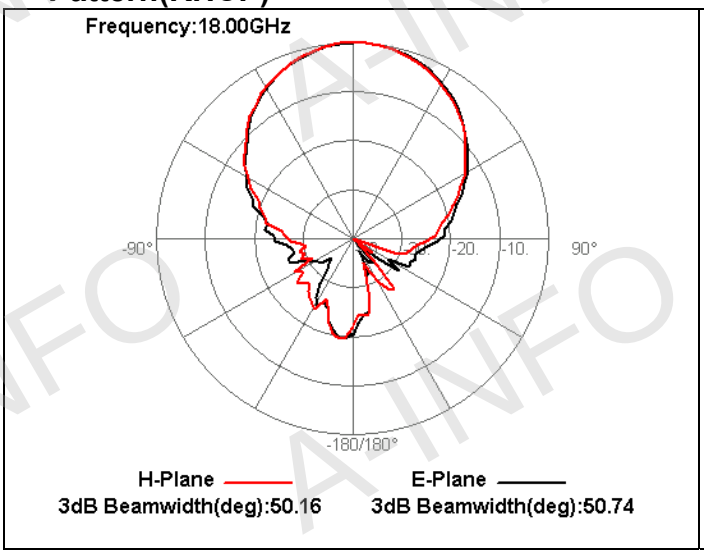



3dB Beamwidth(deg):32.56 3dB Beamwidth(deg):32.42

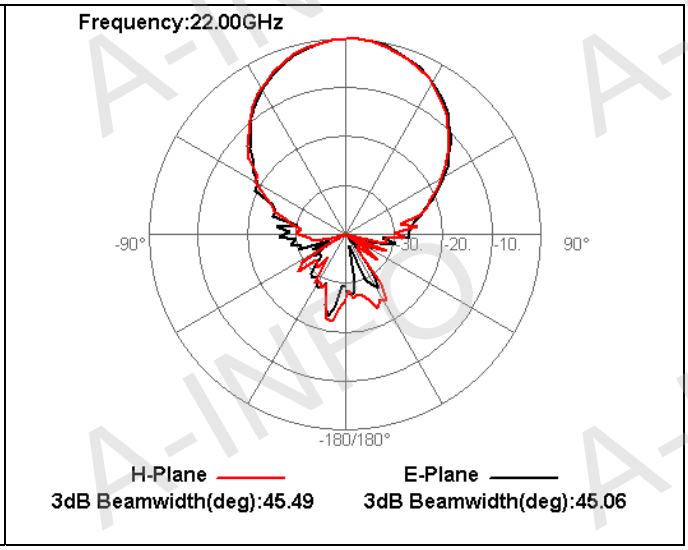



3dB Beamwidth(deg):27.40 3dB Beamwidth(deg):26.81

### Pattern(RHCP)




3dB Beamwidth(deg):50.16 3dB Beamwidth(deg):50.74




3dB Beamwidth(deg):45.49 3dB Beamwidth(deg):45.06

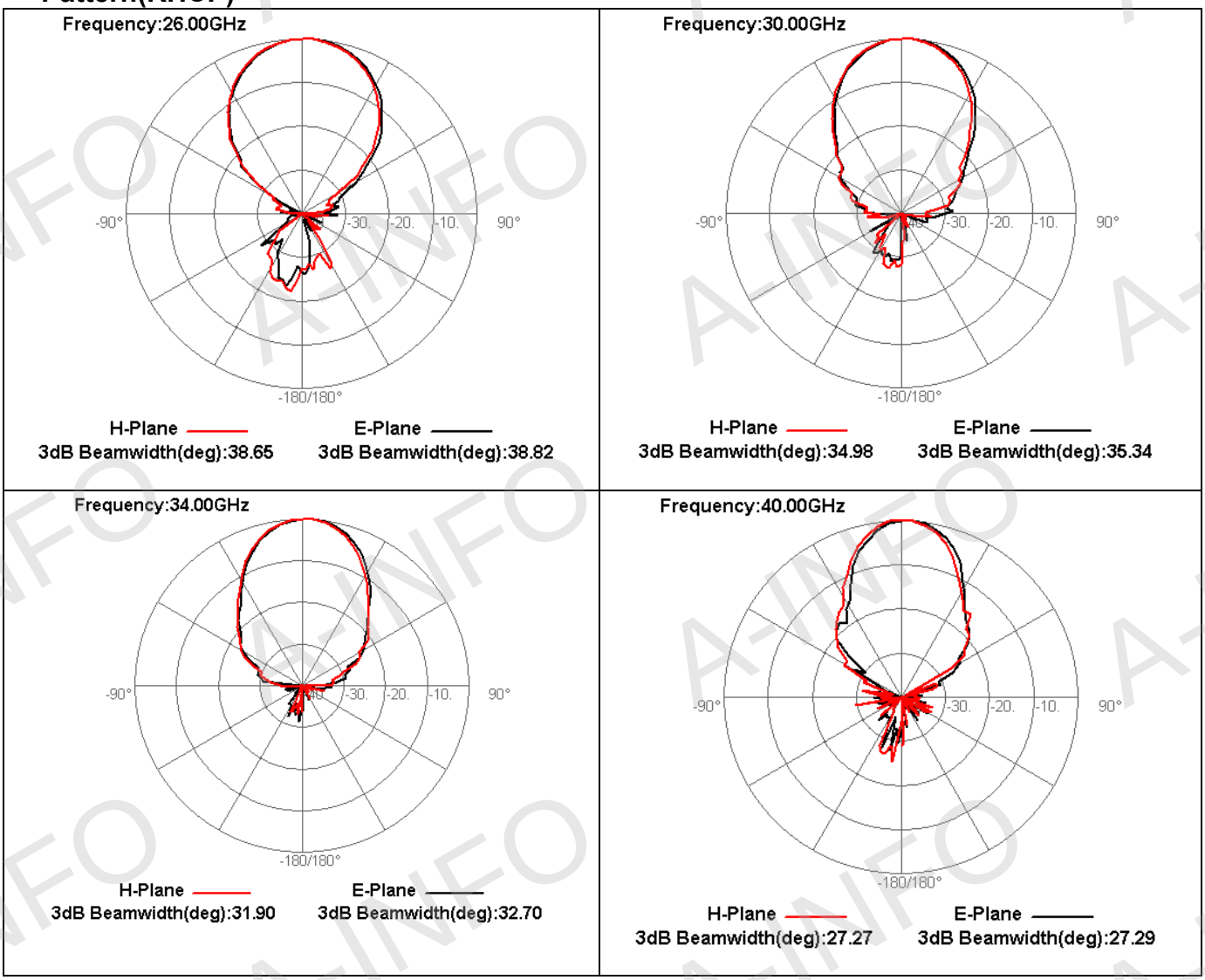


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# Dual Circular Polarization Horn Antenna(continued)

**P/N: LB-SJ-180400-P03**

**Pattern(RHCP)**

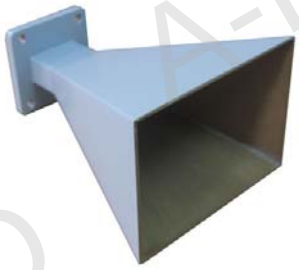


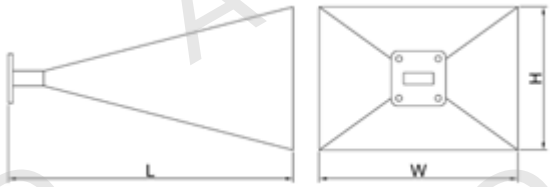



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# Standard Gain Horn Antenna

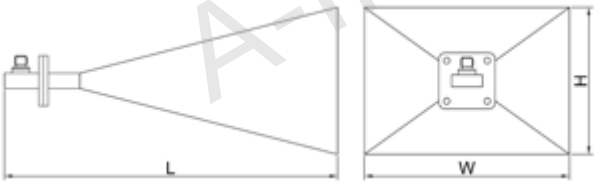
A Type:






C Type:






The LB series standard gain horn antennas are linearly polarized and provide an efficient low cost means of making measurements. A-INFO's standard gain horn antenna can cover from 320MHz to 220GHz frequency range. These horns are ideally suited for EMI testing, direction finding, surveillance, antenna gain and Pattern measurements and other applications.

Model Information

| Example Part Number: | LB | -90 | -10 | -C | -SF |
|---|---|---|---|---|---|
| Product Code | | | | | |
| Waveguide Size: WR2300 to WR5 | | | | | |
| Gain in dB, Standard gain is 10dB, 15dB, 20dB, 25dB | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female;<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | |



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## Calibration Option

Far Field Calibration Data with Extra Fee

## Horn Antenna Accessories

1. Mounting Bracket
2. Tripod
3. Radome
4. Carrying Case

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Standard Gain & download.*

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-2300-10-A | 0.32-0.49 | BJ3 (WR2300) | 10 | A | FDP3 | 1068 | 770 | 970 | Al |
| LB-2300-10-C-XX | | | | C | NF / SF | 1068 | 770 | 1502 | |
| | | | | | | | | | |
| LB-2100-10-A | 0.35-0.53 | BJ4 (WR2100) | 10 | A | FDP4 | 975 | 704 | 948 | Al |
| LB-2100-10-C-XX | | | | C | NF / SF | 975 | 704 | 1434 | |
| | | | | | | | | | |
| LB-1800-10-A | 0.41-0.62 | BJ5 (WR1800) | 10 | A | FDP5 | 837 | 604 | 812 | Al |
| LB-1800-10-C-XX | | | | C | NF / SF | 837 | 604 | 1229 | |
| | | | | | | | | | |
| LB-1500-10-A | 0.49-0.75 | BJ6(WR1500) | 10 | A | FDP6 | 698 | 504 | 677 | Al |
| LB-1500-10-C-XX | | | | C | NF / SF | 698 | 504 | 1025 | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-1150-10-A | 0.64-0.96 | BJ8 (WR1150) | 15 | A | FDP8 | 536 | 388 | 520 | Al |
| LB-1150-10-C-XX | | | | C | NF / SF | 536 | 388 | 788 | |
| LB-975-10-A | 0.75-1.12 | BJ9 (WR975) | 10 | A | FDP9 | 454 | 328 | 440 | Al |
| LB-975-10-C-XX | | | | C | NF / SF | 454 | 328 | 671 | |
| LB-975-15-A | | | 15 | A | FDP9 | 834 | 619 | 619 | Al |
| LB-975-15-C-XX | | | | C | NF / SF | 834 | 619 | 850 | |
| LB-770-10-A | 0.96-1.45 | BJ12 (WR770) | 10 | A | FDP12 | 384 | 284 | 360 | Al |
| LB-770-10-C-XX | | | | C | NF / SF | 384 | 284 | 526 | |
| LB-770-15-A | | | 15 | A | FDP12 | 667 | 501 | 583 | Al |
| LB-770-15-C-XX | | | | C | NF / SF | 667 | 501 | 749 | |
| LB-650-10-A | 1.12-1.70 | BJ14 (WR650) | 10 | A | FDP14 | 315 | 235 | 278 | Al |
| LB-650-10-C-XX | | | | C | NF / SF | 315 | 235 | 428 | |
| LB-650-15-A | | | 15 | A | FDP14 | 564 | 424 | 500 | Al |
| LB-650-15-C-XX | | | | C | NF / SF | 564 | 424 | 650 | |
| LB-650-20-A | | | 20 | A | FDP14 | 1525 | 919 | 779 | Al |
| LB-650-20-C-XX | | | | C | NF / SF | 1675 | 919 | 779 | |
| LB-510-10-A | 1.45-2.20 | BJ18 (WR510) | 10 | A | FDP18 | 249 | 184 | 425 | Al |
| LB-510-10-C-XX | | | | C | NF / SF | 249 | 184 | 536 | |
| LB-510-15-A | | | 15 | A | FDP18 | 441 | 327 | 400 | Al |
| LB-510-15-C-XX | | | | C | NF / SF | 441 | 327 | 511 | |
| LB-430-10-A | 1.70-2.60 | BJ22(WR430) | 10 | A | FDP22 | 209 | 154 | 345 | Al |
| LB-430-10-C-XX | | | | C | NF / SF | 209 | 154 | 445 | |
| LB-430-15-A | | | 15 | A | FDP22 | 375 | 279 | 375 | Al |
| LB-430-15-C-XX | | | | C | NF / SF | 375 | 279 | 475 | |
| LB-430-20-A | | | 20 | A | FDP22 | 613 | 517 | 1095 | Al |
| LB-430-20-C-XX | | | | C | NF / SF | 613 | 517 | 1195 | |
| LB-340-10-A | 2.20-3.30 | BJ26 (WR340) | 10 | A | FDP26 | 163 | 123 | 270 | Al |
| LB-340-10-C-XX | | | | C | NF / SF | 163 | 123 | 362 | |
| LB-340-15-A | | | 15 | A | FDP26 | 309 | 238 | 294 | Al |
| LB-340-15-C-XX | | | | C | NF / SF | 309 | 238 | 386 | |
| LB-340-20-A | | | 20 | A | FDP26 | 485 | 410 | 870 | Al |
| LB-340-20-C-XX | | | | C | NF / SF | 485 | 410 | 962 | |
| LB-284-10-A | 2.60-3.95 | BJ32 (WR284) | 10 | A | FDP32 | 143 | 103 | 230 | Al |
| LB-284-10-C-XX | | | | C | NF / SF | 143 | 103 | 309 | |
| LB-284-15-A | | | 15 | A | FDP32 | 224 | 169 | 270 | Al |
| LB-284-15-C-XX | | | | C | NF / SF | 224 | 169 | 349 | |
| LB-284-20-A | | | 20 | A | FDP32 | 405 | 325 | 550 | Al |
| LB-284-20-C-XX | | | | C | NF / SF | 405 | 325 | 629 | |
| LB-229-10-A | 3.30-4.90 | BJ40 (WR229) | 10 | A | FDP40 | 113 | 79 | 160 | Al |
| LB-229-10-C-XX | | | | C | NF / SF | 113 | 79 | 225 | |
| LB-229-15-A | | | 15 | A | FDP40 | 211 | 148 | 260 | Al |
| LB-229-15-C-XX | | | | C | NF / SF | 211 | 148 | 325 | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-229-20-A | 3.30-4.90 | BJ40 (WR229) | 20 | A | FDP40 | 345 | 264 | 388 | Al |
| LB-229-20-C-XX | | | | C | NF / SF | 345 | 264 | 453 | |
| LB-187-10-A | 3.95-5.85 | BJ48 (WR187) | 10 | A | FDP48 | 93 | 69 | 190 | Al |
| LB-187-10-C-XX | | | | C | NF / SF | 93 | 69 | 244 | |
| LB-187-15-A | | | 15 | A | FDP48 | 168 | 118 | 210 | Al |
| LB-187-15-C-XX | | | | C | NF / SF | 168 | 118 | 264 | |
| LB-187-20-A | | | 20 | A | FDP48 | 274 | 212 | 350 | Al |
| LB-187-20-C-XX | | | | C | NF / SF | 274 | 212 | 404 | |
| LB-187-25-A | | | 25 | A | FDP48 | 600 | 560 | 1696 | Al |
| LB-187-25-C-XX | | | | C | NF / SF | 600 | 560 | 1750 | |
| LB-159-10-A | 4.90-7.05 | BJ58 (WR159) | 10 | A | FDP58 | 72 | 54.5 | 125 | Al |
| LB-159-10-C-XX | | | | C | NF / SF | 72 | 54.5 | 175 | |
| LB-159-15-A | | | 15 | A | FDP58 | 138 | 103 | 180 | Al |
| LB-159-15-C-XX | | | | C | NF / SF | 138 | 103 | 230 | |
| LB-159-20-A | | | 20 | A | FDP58 | 225 | 173 | 265 | Al |
| LB-159-20-C-XX | | | | C | NF / SF | 225 | 173 | 315 | |
| LB-137-10-A | 5.85-8.20 | BJ70 (WR137) | 10 | A | FDP70 | 63 | 49 | 110 | Al |
| LB-137-10-C-XX | | | | C | NF / SF | 63 | 49 | 158 | |
| LB-137-15-A | | | 15 | A | FDP70 | 143 | 113 | 170 | Al |
| LB-137-15-C-XX | | | | C | NF / SF | 143 | 113 | 218 | |
| LB-137-20-A | | | 20 | A | FDP70 | 197 | 153 | 290 | Al |
| LB-137-20-C-XX | | | | C | NF / SF | 197 | 153 | 338 | |
| LB-137-25-A | | | 25 | A | FDP70 | 444 | 414 | 1400 | Al |
| LB-137-25-C-XX | | | | C | NF / SF | 444 | 414 | 1448 | |
| LB-112-10-A | 7.05-10.0 | BJ84 (WR112) | 10 | A | FBP84 | 52 | 39 | 90 | Al |
| LB-112-10-C-XX | | | | C | NF / SF | 52 | 39 | 130 | |
| LB-112-15-A | | | 15 | A | FBP84 | 102 | 71 | 140 | Al |
| LB-112-15-C-XX | | | | C | NF / SF | 102 | 71 | 180 | |
| LB-112-20-A | | | 20 | A | FBP84 | 172 | 128 | 230 | Al |
| LB-112-20-C-XX | | | | C | NF / SF | 172 | 128 | 270 | |
| LB-90-10-A | 8.20-12.4 | BJ100 (WR90) | 10 | A | FBP100 | 42 | 41.4 | 75 | Al |
| LB-90-10-C-XX | | | | C | SF / NF | 42 | 49.6 | 113 | |
| LB-90-15-A | | | 15 | A | FBP100 | 84 | 60 | 105 | Al |
| LB-90-15-C-XX | | | | C | SF / NF | 84 | 60 | 143 | |
| LB-90-20-A | | | 20 | A | FBP100 | 138 | 107 | 200 | Al |
| LB-90-20-C-XX | | | | C | SF / NF | 138 | 107 | 238 | |
| LB-90-25-A | | | 25 | A | FBP100 | 244 | 204 | 640 | Al |
| LB-90-25-C-XX | | | | C | SF / NF | 244 | 204 | 678 | |
| LB-75-10-A | 10.0-15.0 | BJ120 (WR75) | 10 | A | FBP120 | 38 | 29 | 65 | Al |
| LB-75-10-C-XX | | | | C | SF / NF | 38 | 29 | 95 | |
| LB-75-15-A | | | 15 | A | FBP120 | 68 | 48 | 90 | Al |
| LB-75-15-C-XX | | | | C | SF / NF | 68 | 48 | 120 | |
| LB-75-20-A | | | 20 | A | FBP120 | 103 | 83 | 155 | Al |
| LB-75-20-C-XX | | | | C | SF / NF | 103 | 83 | 185 | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-75-25-A | 10.0-15.0 | BJ120 (WR75) | 25 | A | FBP120 | 185 | 155 | 400 | Al |
| LB-75-25-C-XX | | | | C | SF / NF | 185 | 155 | 430 | |
| LB-62-10-A | 12.4-18.0 | BJ140 (WR62) | 10 | A | FBP140 | 32 | 23.5 | 60 | Al |
| LB-62-10-C-XX | | | | C | SF / NF | 32 | 23.5 | 87 | |
| LB-62-15-A | | | 15 | A | FBP140 | 50 | 35 | 60 | Al |
| LB-62-15-C-XX | | | | C | SF / NF | 50 | 35 | 87 | |
| LB-62-20-A | | | 20 | A | FBP140 | 93 | 72 | 135 | Al |
| LB-62-20-C-XX | | | | C | SF / NF | 93 | 72 | 162 | |
| LB-62-25-A2 | | | 25 | A | FBP140 | 155 | 140 | 336 | Al |
| LB-62-25-C2-XX | | | | C | SF / NF | 155 | 140 | 363 | |
| LB-51-10-A | 15.0-22.0 | BJ180 (WR51) | 10 | A | FBP180 | 27 | 18.6 | 47 | Cu |
| LB-51-10-C-XX | | | | C | SF | 27 | 18.6 | 74 | |
| LB-51-15-A | | | 15 | A | FBP180 | 44 | 34 | 60 | Cu |
| LB-51-15-C-XX | | | | C | SF | 44 | 34 | 87 | |
| LB-51-20-A | | | 20 | A | FBP180 | 77 | 60 | 110 | Cu |
| LB-51-20-C-XX | | | | C | SF | 77 | 60 | 137 | |
| LB-51-25-A | | | 25 | A | FBP180 | 130 | 100 | 260 | Cu |
| LB-51-25-C-XX | | | | C | SF | 130 | 100 | 287 | |
| LB-42-10-A | 18.0-26.5 | BJ220 (WR42) | 10 | A | FBP220 | 22.4 | 22.4 | 42 | Cu |
| LB-42-10-C-XX | | | | C | SF/KF/3.5F | 22.4 | 27.76 | 67 | |
| LB-42-15-A | | | 15 | A | FBP220 | 34 | 24.5 | 48 | Cu |
| LB-42-15-C-XX | | | | C | SF/KF/3.5F | 34 | 24.5 | 73 | |
| LB-42-20-A | | | 20 | A | FBP220 | 64.3 | 50.3 | 90 | Cu |
| LB-42-20-C-XX | | | | C | SF/KF/3.5F | 64.3 | 50.3 | 125 | |
| LB-42-25-A2 | | | 25 | A | FBP220 | 105 | 90 | 271 | Al |
| LB-42-25-C2-XX | | | | C | SF/KF/3.5F | 105 | 90 | 296 | |
| LB-34-10-A | 22.0-33.0 | BJ260 (WR34) | 10 | A | FBP260 | 18 | 14 | 39 | Cu |
| LB-34-10-C-XX | | | | C | KF | 18 | 14 | 64 | |
| LB-34-15-A | | | 15 | A | FBP260 | 31 | 22 | 42 | Cu |
| LB-34-15-C-XX | | | | C | KF | 31 | 22 | 67 | |
| LB-34-20-A | | | 20 | A | FBP260 | 54 | 42 | 95 | Cu |
| LB-34-20-C-XX | | | | C | KF | 54 | 42 | 120 | |
| LB-34-25-A | | | 25 | A | FBP260 | 92 | 72 | 220 | Cu |
| LB-34-25-C-XX | | | | C | KF | 92 | 72 | 245 | |
| LB-28-10-A | 26.5-40.0 | BJ320(WR28) | 10 | A | FBP320 | 19.1 | 19.1 | 31 | Cu |
| LB-28-10-C-XX | | | | C | KF/2.4F | 19.1 | 25.7 | 55 | |
| LB-28-15-A | | | 15 | A | FBP320 | 20.2 | 19.1 | 36 | Cu |
| LB-28-15-C-XX | | | | C | KF/2.4F | 20.2 | 25.7 | 60 | |
| LB-28-20-A | | | 20 | A | FBP320 | 40.4 | 31.9 | 70 | Cu |
| LB-28-20-C-XX | | | | C | KF/2.4F | 40.4 | 32.1 | 94 | |
| LB-28-25-A2 | | | 25 | A | FBP320 | 71 | 70 | 172 | Cu |
| LB-28-25-C2-XX | | | | C | KF/2.4F | 71 | 70 | 196 | |
| LB-28-25-C2-EKF | | | 25 | C | KF | 71 | 70 | 206.4 | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-22-10-A | 33.0-50.0 | BJ400(WR22) | 10 | A | FUGP400 | 12.5 | 9.8 | 30 | Cu |
| LB-22-10-C-2.4F | 33.0-50.0 | | | C | 2.4F | 12.5 | 9.8 | 55 | |
| LB-22-15-A | 33.0-50.0 | | 15 | A | FUGP400 | 20.5 | 14 | 30 | Cu |
| LB-22-15-C-2.4F | 33.0-50.0 | | | C | 2.4F | 20.5 | 14 | 55 | |
| LB-22-20-A | 33.0-50.0 | | 20 | A | FUGP400 | 35 | 27 | 51.4 | Cu |
| LB-22-20-C-2.4F | 33.0-50.0 | | | C | 2.4F | 35 | 27 | 76.4 | |
| LB-22-25-A2 | 33.0-50.0 | | 25 | A2 | FUGP400 | 60 | 60 | 150 | Cu |
| LB-22-25-C2-2.4F | 33.0-50.0 | | | C2 | 2.4F | 60 | 60 | 175 | |
| | | | | | | | | | |
| LB-19-10-A | 40.0-60.0 | BJ500(WR19) | 10 | A | FUGP500 | 11 | 8.5 | 25 | Cu |
| LB-19-10-2.4F | 40.0-50.0 | | | C | 2.4F | 11 | 8.5 | 50 | |
| LB-19-10-C-1.85F | 40.0-60.0 | | | C | 1.85F | 11 | 8.5 | 51 | |
| LB-19-15-A | 40.0-60.0 | | 15 | A | FUGP500 | 17 | 12 | 25 | Cu |
| LB-19-15-C-2.4F | 40.0-50.0 | | | C | 2.4F | 17 | 12 | 50 | |
| LB-19-15-C-1.85F | 40.0-60.0 | | | C | 1.85F | 17 | 12 | 51 | |
| LB-19-20-A | 40.0-60.0 | | 20 | A | FUGP500 | 31.4 | 25.3 | 50 | Cu |
| LB-19-20-C-2.4F | 40.0-50.0 | | | C | 2.4F | 31.4 | 25.3 | 75 | |
| LB-19-20-C-1.85F | 40.0-60.0 | | | C | 1.85F | 31.4 | 25.3 | 76 | |
| LB-19-25-A | 40.0-60.0 | | 25 | A | FUGP500 | 49 | 41 | 130 | Cu |
| LB-19-25-C-2.4F | 40.0-50.0 | | | C | 2.4F | 49 | 41 | 155 | |
| LB-19-25-C-1.85F | 40.0-60.0 | | | C | 1.85F | 49 | 41 | 156 | |
| | | | | | | | | | |
| LB-15-10-A | 50.0-75.0 | BJ620(WR15) | 10 | A | FUGP620 | 19.1 | 19.1 | 40 | Cu |
| LB-15-10-C-1.85F | 50.0-65.0 | | | C | 1.85F | 19.1 | 26.7 | 68 | |
| LB-15-15-A | 50.0-75.0 | | 15 | A | FUGP620 | 19.1 | 19.1 | 40 | Cu |
| LB-15-15-C-1.85F | 50.0-65.0 | | | C | 1.85F | 19.1 | 26.7 | 68 | |
| LB-15-20-A | 50.0-75.0 | | 20 | A | FUGP620 | 21.6 | 19.1 | 47.3 | Cu |
| LB-15-20-C-1.85F | 50.0-65.0 | | | C | 1.85F | 21.6 | 26.7 | 75.3 | |
| LB-15-25-A | 50.0-75.0 | | 25 | A | FUGP620 | 36.8 | 29.8 | 91.4 | Cu |
| LB-15-25-C-1.85F | 50.0-65.0 | | | C | 1.85F | 36.8 | 32 | 119.4 | |
| | | | | | | | | | |
| LB-12-10-A | 60.0-90.0 | BJ740(WR12) | 10 | A | FUGP740 | 19.1 | 19.1 | 20 | Cu |
| LB-12-15-A | | | 15 | A | FUGP740 | 19.1 | 19.1 | 25 | Cu |
| LB-12-20-A | | | 20 | A | FUGP740 | 18.6 | 18.6 | 31.4 | Cu |
| LB-12-25-A | | | 25 | A | FUGP740 | 30.8 | 24.8 | 82 | Cu |
| | | | | | | | | | |
| LB-10-10-A | 75.0-110.0 | BJ900(WR10) | 10 | A | FUGP900 | 19.1 | 19.1 | 20 | Cu |
| LB-10-15-A | | | 15 | A | FUGP900 | 19.1 | 19.1 | 25 | Cu |
| LB-10-20-A | | | 20 | A | FUGP900 | 19.1 | 19.1 | 31.4 | Cu |
| LB-10-25-A | | | 25 | A | FUGP900 | 26.8 | 20.8 | 70 | Cu |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-8-10-A | 90.0-140.0 | BJ1200(WR8) | 10 | A | UG387 | 6.19 | 4.82 | - | Cu |
| LB-8-15-A | | | 15 | A | UG387 | 9.07 | 7.29 | | Cu |
| LB-8-20-A | | | 20 | A | UG387 | 14.30 | 11.62 | 24 | Cu |
| LB-8-25-A | | | 25 | A | UG387 | 21.4 | 16.6 | 51 | Cu |
| | | | | | | | | | |
| LB-6-10-A | 110.0-170.0 | BJ1400(WR6) | 10 | A | UG387 | 5.34 | 4.25 | - | Cu |
| LB-6-15-A | | | 15 | A | UG387 | 7.65 | 6.21 | - | Cu |
| LB-6-20-A | | | 20 | A | UG387 | 11.82 | 9.66 | 20 | Cu |
| LB-6-25-A | | | 25 | A | UG387 | 17.5 | 13.6 | 41 | Cu |
| | | | | | | | | | |
| LB-5-10-A | 140.0-220.0 | BJ1800(WR5) | 10 | A | UG387 | 4.64 | 3.77 | - | Cu |
| LB-5-15-A | | | 15 | A | UG387 | 6.45 | 5.32 | - | Cu |
| LB-5-20-A | | | 20 | A | UG387 | 9.74 | 8.05 | 17 | Cu |
| LB-5-25-A | | | 25 | A | UG387 | 13.9 | 10.8 | 32.2 | Cu |

Note: A-INFO can offer WG to coaxial adapter for each horn antenna. Connector Type can be SMA or N Type or customized.



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# Standard Gain Horn Antenna 8.20~12.4GHz

**P/N: LB-90-15**

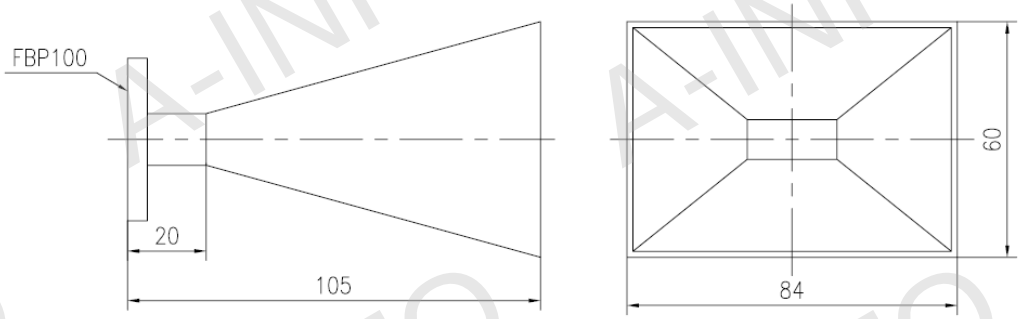


## Technical Specification

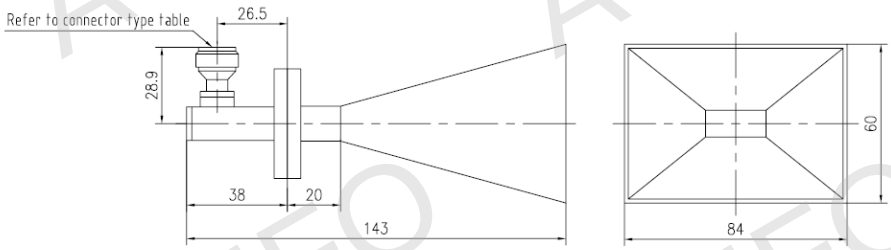
| | |
|---|---|
| **Frequency Range(GHz)** | 8.2 - 12.4 |
| **Gain(dB)** | 15 Typ. |
| **3dB Beamwidth(deg)** | 30 Typ. |
| **Waveguide** | WR90 |
| **Material** | Al |
| **Output** | A Type: FBP100<br>C Type: N/SMA/3.5mm/TNC/7mm |
| **Size(mm) W x H x L** | A Type: 84x60x105<br>C Type: 84x60x143 |
| **Net Weight(Kg)** | A Type: 0.1 Around<br>C Type: 0.15 Around |

## Outline Drawing (Size: mm)

A Type




C Type




| Connector type | |
|---|---|
| 1 | N type Female / Male |
| 2 | SMA Female / Male |
| 3 | 3.5mm Female / Male |
| 4 | TNC Female / Male |
| 5 | 7mm |

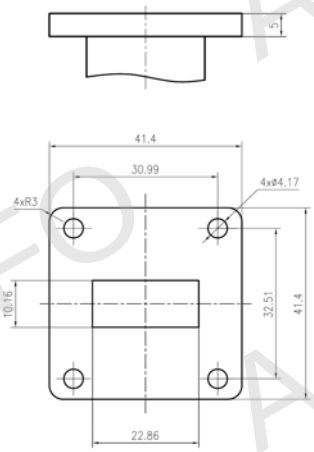


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# Standard Gain Horn Antenna 8.20~12.4GHz (continued)

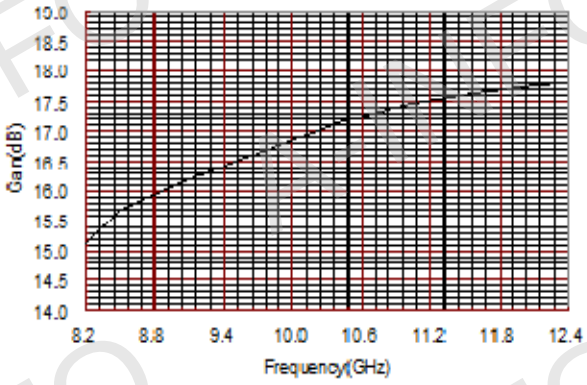
## P/N: LB-90-15

### Flange Drawing (Size: mm)

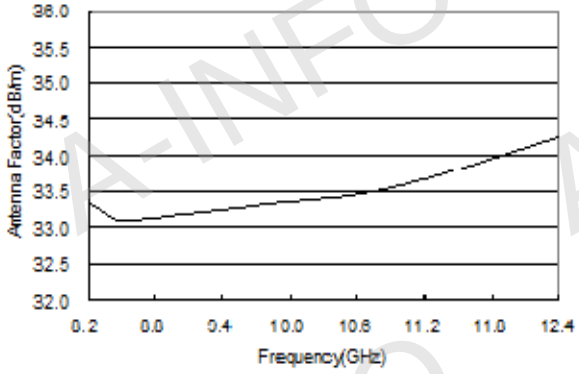



FBP100

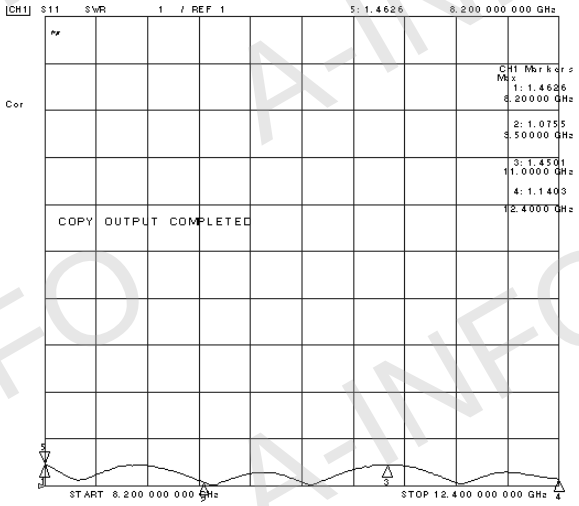
### Gain



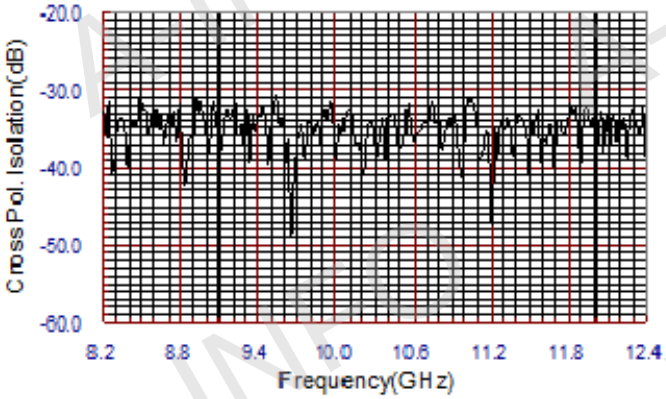

### Antenna Factor




### VSWR




### Cross Polarization Isolation





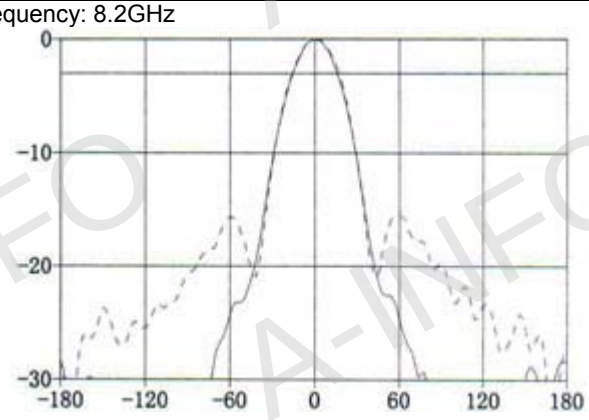

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# Standard Gain Horn Antenna 8.20~12.4GHz (continued)

## P/N: LB-90-15

### Pattern

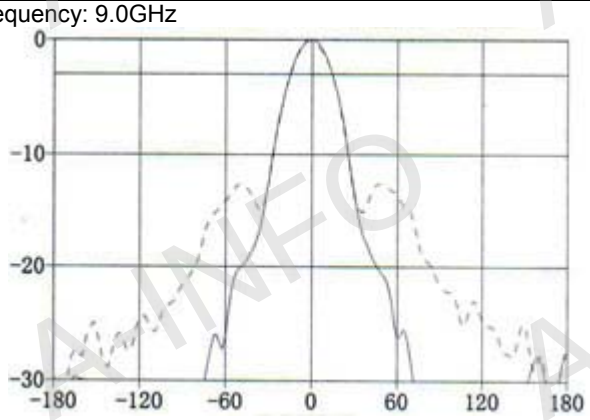
Frequency: 8.2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 31.08 3dB Beamwidth (deg):32.86

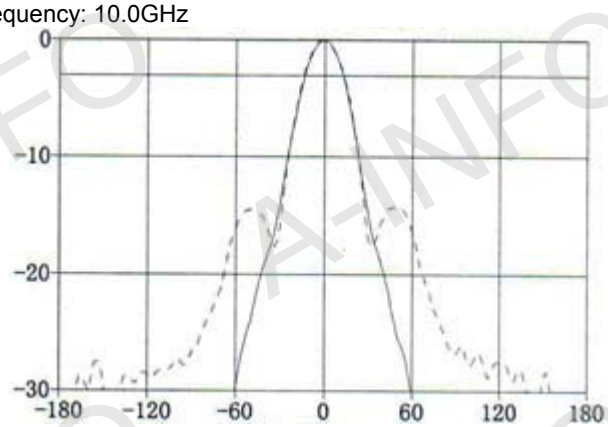
Frequency: 9.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 28.89 3dB Beamwidth (deg):29.09

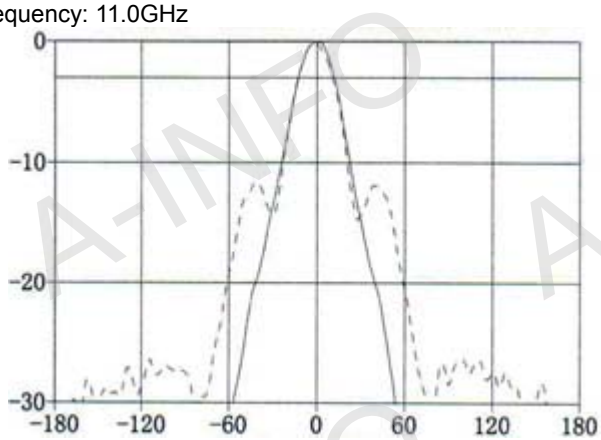
Frequency: 10.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 25.81 3dB Beamwidth (deg): 27.03

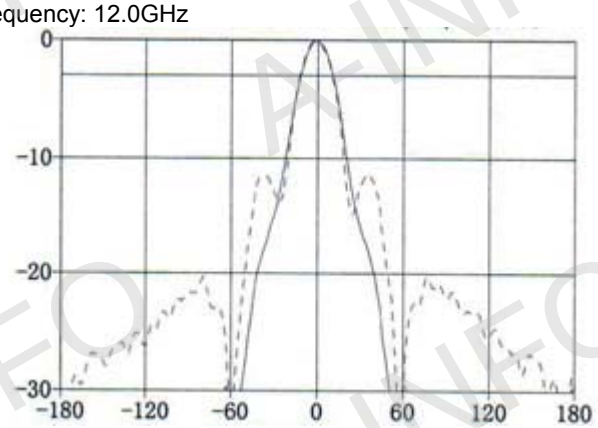
Frequency: 11.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 24.52 3dB Beamwidth (deg): 23.65

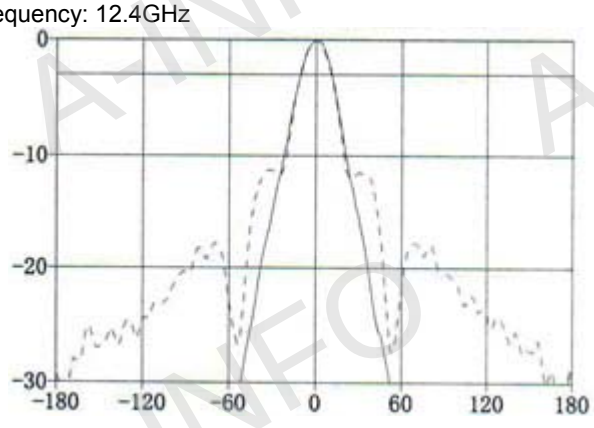
Frequency: 12.0GHz




-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 22.63 3dB Beamwidth (deg): 22.36

Frequency: 12.4GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 21.40 3dB Beamwidth (deg): 21.20

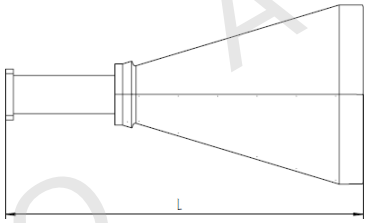


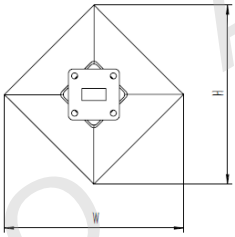
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# Diagonal Horn Antenna

A Type, WG Output:

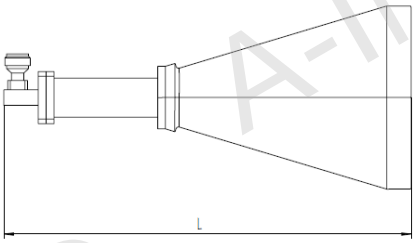


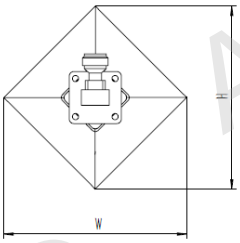


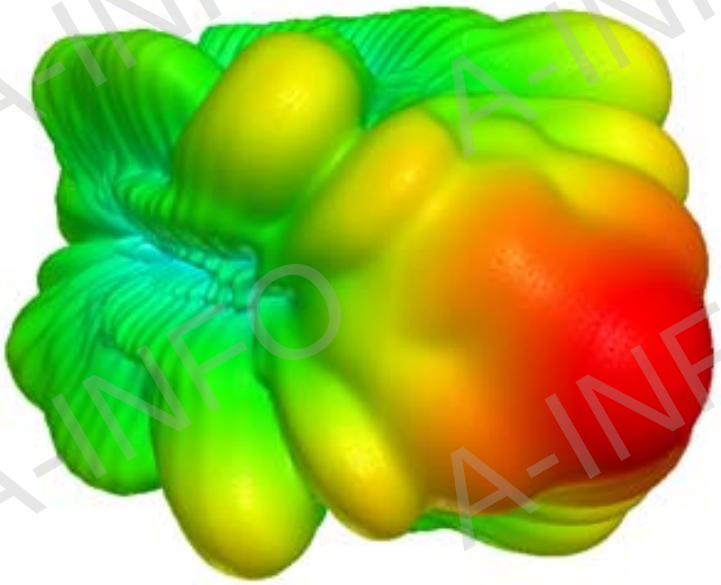

C Type, Coaxial Output:






## Typical 3D Radiation Pattern



The LB-DG series diagonal horn antennas are linearly polarized and provide a symmetrical radiation pattern and extremely low side-lobes. A-INFO's diagonal horn antenna can cover from 750MHz to 220GHz frequency range. These horns are ideally suited for illumination of anechoic chamber, antenna far field test, radar cross section (RCS) measurement and other applications.



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Email: sales@ainfoinc.com

| Model Information | | | | | |
|---|---|---|---|---|---|
| Example Part Number: | LB-DG | -90 | -10 | -C | -SF |
| Product Code | | | | | |
| Waveguide Size: WR975 to WR5 | | | | | |
| Gain in dB, Standard gain is 15dB, 20dB, 25dB | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | |

## Calibration Option

Far Field Calibration Data with Extra Fee

## Horn Antenna Accessories

1. Mounting Bracket
2. Tripod
3. Radome
4. Carrying Case

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna –Diagonal Horn and download.*


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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-DG-975-15-A | 0.75-1.12 | WR975 | 15 | A | FDP9 | - | - | - | Al |
| LB-DG-975-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-770-15-A | 0.96-1.45 | WR770 | 15 | A | FDP12 | 840.6 | 840.6 | 1148 | Al |
| LB-DG-770-15-C-XX | | | | C | NF / SF | 840.6 | 840.6 | 1314 | |
| LB-DG-650-15-A | 1.12-1.70 | WR650 | 15 | A | FDP14 | - | - | - | Al |
| LB-DG-650-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-510-15-A | 1.45-2.20 | WR510 | 15 | A | FDP18 | 557.8 | 557.8 | 821 | Al |
| LB-DG-510-15-C-XX | | | | C | NF / SF | 557.8 | 557.8 | 932 | |
| LB-DG-430-15-A | 1.70-2.60 | WR430 | 15 | A | FDP22 | - | - | - | Al |
| LB-DG-430-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-430-20-A | | | 20 | A | FDP22 | - | - | - | Al |
| LB-DG-430-20-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-340-15-A | 2.20-3.30 | WR340 | 15 | A | FDP26 | - | - | - | Al |
| LB-DG-340-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-340-20-A | | | 20 | A | FDP26 | 642.7 | 642.7 | 1044.4 | Al |
| LB-DG-340-20-C-XX | | | | C | NF / SF | 642.7 | 642.7 | 1136.4 | |
| LB-DG-284-15-A | 2.60-3.95 | WR284 | 15 | A | FDP32 | - | - | - | Al |
| LB-DG-284-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-284-20-A | | | 20 | A | FDP32 | - | - | - | Al |
| LB-DG-284-20-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-229-15-A | 3.30-4.90 | WR229 | 15 | A | FDP40 | - | - | - | Al |
| LB-DG-229-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-229-20-A | | | 20 | A | FDP40 | 447.3 | 447.3 | 758.6 | Al |
| LB-DG-229-20-C-XX | | | | C | NF / SF | 447.3 | 447.3 | 823.6 | |
| LB-DG-187-15-A | 3.95-5.85 | WR187 | 15 | A | FDP48 | - | - | - | Al |
| LB-DG-187-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-187-20-A | | | 20 | A | FDP48 | - | - | - | Al |
| LB-DG-187-20-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-187-25-A | | | 25 | A | FDP48 | - | - | - | Al |
| LB-DG-187-25-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-159-15-A | 4.90-7.05 | WR159 | 15 | A | FDP58 | - | - | - | Al |
| LB-DG-159-15-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-159-20-A | | | 20 | A | FDP58 | 304.4 | 304.4 | 507.4 | Al |
| LB-DG-159-20-C-XX | | | | C | NF / SF | 304.4 | 304.4 | 557.4 | |



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Website: www.ainfoinc.com
Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-DG-137-15-A | 5.85-8.20 | WR137 | 15 | A | FDP70 | 160 | 160 | 292.4 | Al |
| LB-DG-137-15-C-XX | | | | C | NF / SF | 160 | 160 | 340.4 | |
| LB-DG-137-20-A | | | 20 | A | FDP70 | - | - | - | Al |
| LB-DG-137-20-C-XX | | | | C | NF / SF | - | - | - | |
| LB-DG-137-25-A | | | 25 | A | FDP70 | - | - | - | Al |
| LB-DG-137-25-C-XX | | | | C | NF / SF | - | - | - | |
| | | | | | | | | | |
| LB-DG-112-20-A | 7.05-10.0 | WR112 | 20 | A | FBP84 | 224.9 | 224.9 | 397 | Al |
| LB-DG-112-20-C-XX | | | | C | NF / SF | 224.9 | 224.9 | 437 | |
| | | | | | | | | | |
| LB-DG-90-20-A | 8.20-12.4 | WR90 | 20 | A | FBP100 | 182.6 | 182.6 | 316 | Al |
| LB-DG-90-20-C-XX | | | | C | SF / NF | 182.6 | 182.6 | 354 | |
| LB-DG-90-25-A | | | 25 | A | FBP100 | 316.8 | 316.8 | 728 | Al |
| LB-DG-90-25-C-XX | | | | C | SF / NF | 316.8 | 316.8 | 766 | |
| | | | | | | | | | |
| LB-DG-75-20-A | 10.0-15.0 | WR75 | 20 | A | FBP120 | - | - | - | Al |
| LB-DG-75-20-C-XX | | | | C | SF / NF | - | - | - | |
| LB-DG-75-25-A | | | 25 | A | FBP120 | - | - | - | Al |
| LB-DG-75-25-C-XX | | | | C | SF / NF | - | - | - | |
| | | | | | | | | | |
| LB-DG-62-20-A | 12.4-18.0 | WR62 | 20 | A | FBP140 | 117 | 117 | 233.2 | Al |
| LB-DG-62-20-C-XX | | | | C | SF / NF | 117 | 117 | 260.2 | |
| LB-DG-62-25-A | | | 25 | A | FBP140 | 215 | 215 | 496.2 | Al |
| LB-DG-62-25-C-XX | | | | C | SF / NF | 215 | 215 | 523.2 | |
| | | | | | | | | | |
| LB-DG-51-20-A | 15.0-22.0 | WR51 | 20 | A | FBP180 | - | - | - | Al |
| LB-DG-51-20-C-XX | | | | C | SF | - | - | - | |
| LB-DG-51-25-A | | | 25 | A | FBP180 | - | - | - | Al |
| LB-DG-51-25-C-XX | | | | C | SF | - | - | - | |
| | | | | | | | | | |
| LB-DG-42-20-A | 18.0-26.5 | WR42 | 20 | A | FBP220 | - | - | - | Al |
| LB-DG-42-20-C-XX | | | | C | SF / KF/ 3.5F | - | - | - | |
| LB-DG-42-25-A | | | 25 | A | FBP220 | 172.4 | 172.4 | 393.7 | Al |
| LB-DG-42-25-C-XX | | | | C | SF / KF/ 3.5F | 172.4 | 172.4 | 428.7 | |
| | | | | | | | | | |
| LB-DG-34-20-A | 22.0-33.0 | WR34 | 20 | A | FBP260 | - | - | - | Al |
| LB-DG-34-20-C-XX | | | | C | 2.92mm-Female | - | - | - | |
| LB-DG-34-25-A | | | 25 | A | FBP260 | - | - | - | Al |
| LB-DG-34-25-C-XX | | | | C | 2.92mm-Female | - | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Figure | Output | Size (mm) | | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | W | H | L | |
| LB-DG-28-20-A | 26.5-40.0 | WR28 | 20 | A | FBP320 | 55.3 | 55.3 | 106.7 | Cu |
| LB-DG-28-20-C-XX | | | | C | KF / 2.4F | 55.3 | 55.3 | 130.7 | |
| LB-DG-28-25-A | | | 25 | A | FBP320 | - | - | - | Cu |
| LB-DG-28-25-C-XX | | | | C | KF / 2.4F | - | - | - | |
| | | | | | | | | | |
| LB-DG-22-20-A | 33.0-50.0 | WR22 | 20 | A | FUGP400 | - | - | - | Cu |
| LB-DG-22-20-C-2.4F | 33.0-50.0 | | | C | 2.4mm-Female | - | - | - | |
| LB-DG-22-25-A | 33.0-50.0 | | 25 | A | FUGP400 | - | - | - | Cu |
| LB-DG-22-25-C-2.4F | 33.0-50.0 | | | C | 2.4mm-Female | - | - | - | |
| | | | | | | | | | |
| LB-DG-19-20-A | 40.0-60.0 | WR19 | 20 | A | FUGP500 | - | - | - | Cu |
| LB-DG-19-20-C-2.4F | 40.0-50.0 | | | C | 2.4mm-Female | - | - | - | |
| LB-DG-19-20-C-1.85F | 40.0-60.0 | | | C | 1.85mm-Female | - | - | - | |
| LB-DG-19-25-A | 40.0-60.0 | | 25 | A | FUGP500 | - | - | - | Cu |
| LB-DG-19-25-C-2.4F | 40.0-50.0 | | | C | 2.4mm-Female | - | - | - | |
| LB-DG-19-25-C-1.85F | 40.0-60.0 | | | C | 1.85mm-Female | - | - | - | |
| | | | | | | | | | |
| LB-DG-15-25-A | 50.0-75.0 | WR15 | 25 | A | FUGP620 | - | - | - | Cu |
| LB-DG-15-25-C-1.85F | 50.0-65.0 | | | C | 1.85mm-Female | - | - | - | |
| | | | | | | | | | |
| LB-DG-12-25-A | 60.0-90.0 | WR12 | 25 | A | FUGP740 | - | - | - | Cu |
| | | | | | | | | | |
| LB-DG-10-25-A | 75.0-110.0 | WR10 | 25 | A | FUGP900 | - | - | - | Cu |
| | | | | | | | | | |
| LB-DG-8-25-A | 90.0-140.0 | WR8 | 25 | A | UG387 | - | - | - | Cu |
| | | | | | | | | | |
| LB-DG-6-25-A | 110.0-170.0 | WR6 | 25 | A | UG387 | - | - | - | Cu |
| | | | | | | | | | |
| LB-DG-5-25-A | 140.0-220.0 | WR5 | 25 | A | UG387 | - | - | - | Cu |



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# Diagonal Horn Antenna 8.20~12.4GHz

**P/N: LB-DG-90-20**

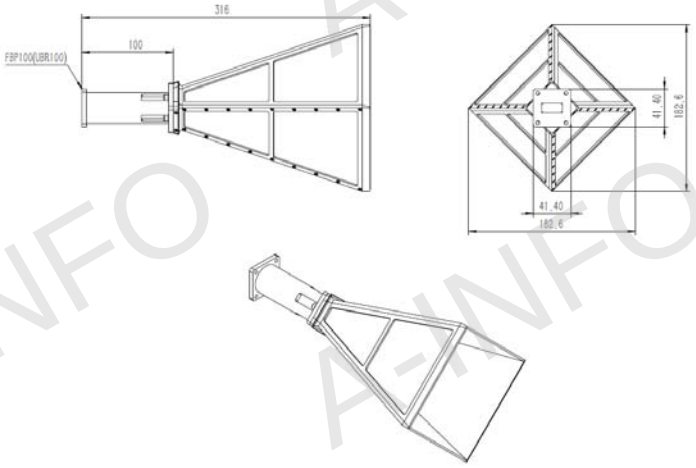


## Technical Specification

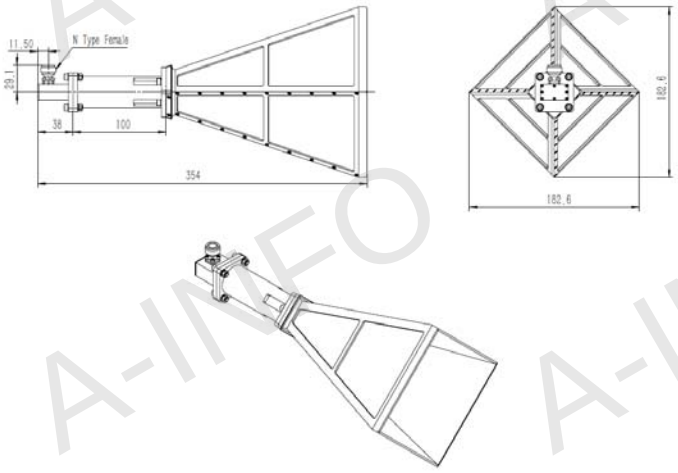
| | |
|---|---|
| Frequency Range(GHz) | 8.2 - 12.4 |
| Gain(dB) | 20 Typ. |
| Waveguide | WR90 |
| Sidelobe(dB) | E Plane: -30dB Max. |
| | H Plane: -35dB Max. |
| Cross Pol. Isolation(dB) | -40 Typ. |
| VSWR | A Type: 1.2 Max. |
| | C Type: 1.5 Max. |
| Output | A Type: FBP100(UBR100) |
| | C Type: N-Female/SMA-Female |
| Material | Al |
| Size(mm) | A Type: 316x182.6x182.6 |
| | C Type: 354x182.6x182.6 |
| Net Weight(Kg) | A Type: 0.62 Around |
| | C Type: 0.70 Around |

## Outline Drawing (Size: mm)

A Type




C Type



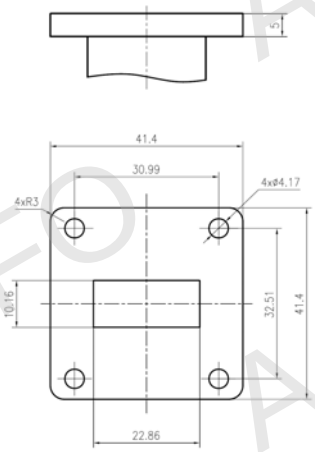



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# *Diagonal Horn Antenna 8.20~12.4GHz (continued)*

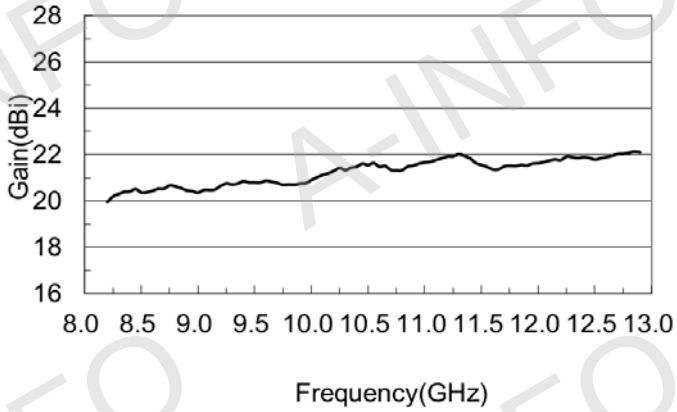
**P/N: LB-DG-90-20**

**Flange Drawing (Size: mm)**

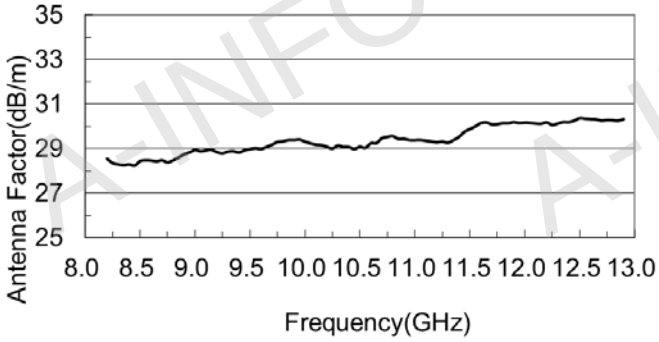



FBP100

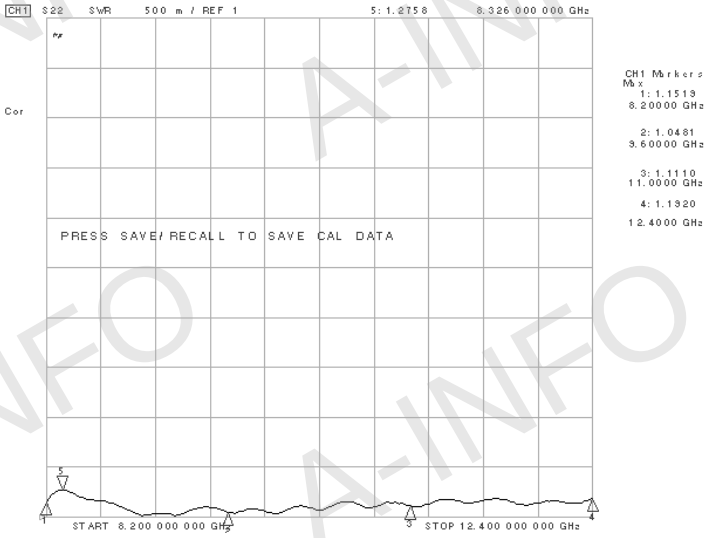
## Gain



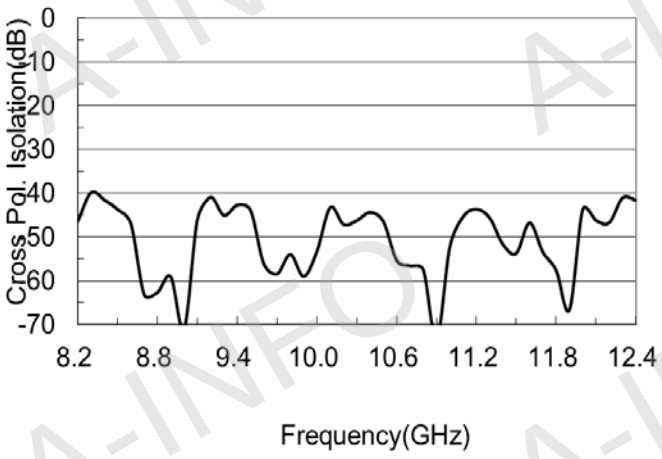

## Antenna Factor




## VSWR




## Cross Polarization Isolation



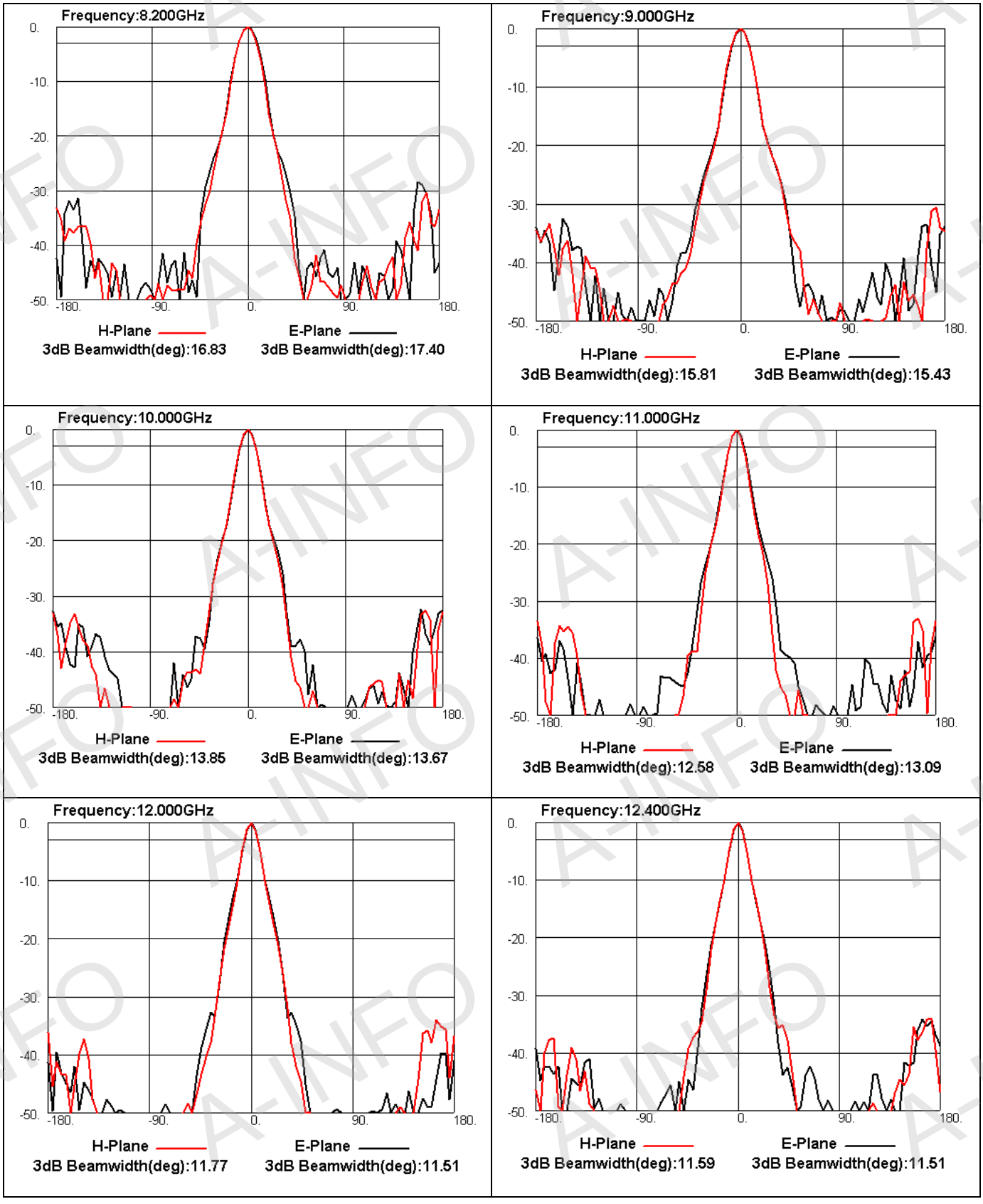



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# Diagonal Horn Antenna 8.20~12.4GHz (continued)

## P/N: LB-DG-90-20

### Pattern






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# Open Ended Waveguide Probes

## Include the following Types Waveguide Probes :

1. Rectangular Waveguide Probes with Waveguide Interface (Table 1)
2. Rectangular Waveguide Probes with Waveguide Interface, Equipped with Absorber (Table 2)
3. Rectangular Waveguide Probes with Right Angle Coaxial Output (Table 3)
4. Rectangular Waveguide Probes with Right Angle Coaxial Output, Equipped with Absorber (Table 4)
5. Rectangular Waveguide Probes with Endlaunch Coaxial Output (Table 5)
6. Rectangular Waveguide Probes with Endlaunch Coaxial Output, Equipped with Absorber (Table 6)

A-INFO's Open Ended WG Probes have been specifically designed for near-field measurement. The EWG series Open Ended Waveguide Probes are Linear Polarization and are covering the frequency range from 0.32 to 110GHz by using standard WG band. All probes have an option of integration with absorber for better gain flatness and radiation pattern.

Model Information

| Example Part Number: | 90 | EWG | N | -A1 |
|---|---|---|---|---|
| EIA Waveguide Size: WR2300 to WR10 | | | | |
| Product Code<br>**EWG**: for WG Output and Right Angle Coaxial Output<br>**EWGE**: for Endlaunch Coaxial Output | | | | |
| Coaxial Output Type Option, Leave it blank for WG output models.<br>7/16=7/16 DIN Female<br>N=N Type-Female; NM=N Type-Male;<br>S=SMA-Female; SM=SMA-Male;<br>3.5=3.5mm-Female; 3.5M=3.5mm-Male;<br>K=2.92mm-Female; KM=2.92mm-Male<br>2.4=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85=1.85mm-Female; 1.85M=1.85mm-Male | | | | |
| Option for Absorber<br>**A1**: Standard Absorber | | | | |

## Open Ended Waveguide Probes Accessories

1. Mounting Bracket
2. Tripod
3. Carrying Case

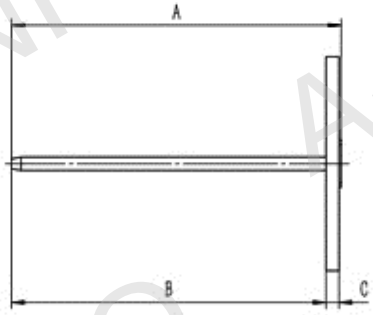

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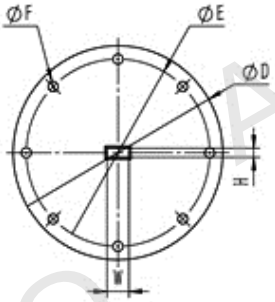




## 1. Rectangular Waveguide Probes with Waveguide Interface





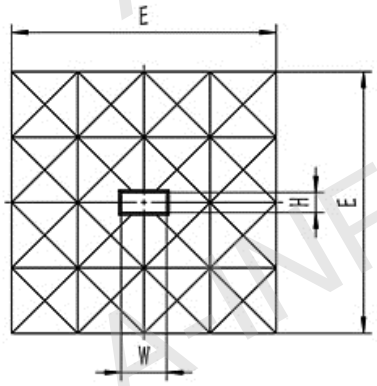



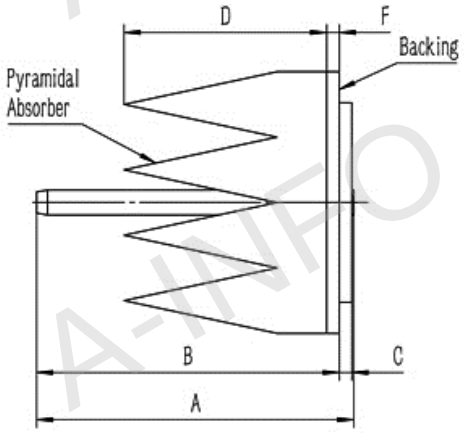

| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | H | W | |
| 42EWG | 18.0-26.5 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 10.67 | FBP220 |
| 34EWG | 22.0-33.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 8.64 | FBP260 |
| 28EWG | 26.5-40.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 3.56 | 7.11 | FBP320 |
| 22EWG | 33.0-50.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.85 | 5.69 | FUGP400 |
| 19EWG | 40.0-60.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.39 | 4.78 | FUGP500 |
| 15EWG | 50.0-75.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 1.88 | 3.76 | FUGP620 |
| 12EWG | 60.0-90.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 1.55 | 3.1 | FUGP740 |
| 10EWG | 75.0-110.0 | 159.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 1.27 | 2.54 | FUGP900 |



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## 2. Rectangular Waveguide Probes with Waveguide Interface, Equipped with Absorber




| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | H | W | |
| 42EWG-A1 | 18.0-26.5 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 10.67 | FBP220 |
| 34EWG-A1 | 22.0-33.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 8.64 | FBP260 |
| 28EWG-A1 | 26.5-40.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 3.56 | 7.11 | FBP320 |
| 22EWG-A1 | 33.0-50.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.85 | 5.69 | FUGP400 |
| 19EWG-A1 | 40.0-60.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.39 | 4.78 | FUGP500 |
| 15EWG-A1 | 50.0-75.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 1.88 | 3.76 | FUGP620 |
| 12EWG-A1 | 60.0-90.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 1.55 | 3.1 | FUGP740 |
| 10EWG-A1 | 75.0-110.0 | 159.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 1.27 | 2.54 | FUGP900 |


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## 3. Rectangular Waveguide Probes with Right Angle Coaxial Output



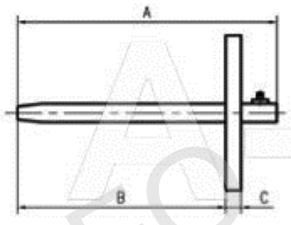


Figure 1

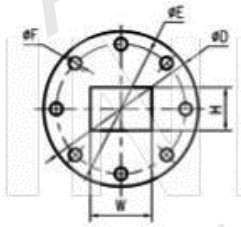


Figure 2

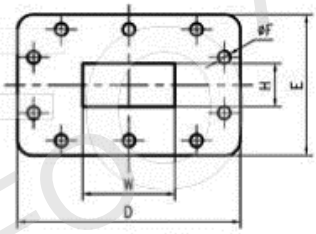


Figure 3

| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 2300EWGN | 0.32-0.49 | 1344.8 | 812.8 | 23 | 676.3 | 384.2 | 13.2 | 292.1 | 584.2 | N-F |
| 2100EWGN | 0.35-0.53 | 1298.8 | 812.8 | 23 | 625.5 | 358.8 | 13.2 | 266.7 | 533.4 | N-F |
| 1800EWGN | 0.41-0.62 | 1229.8 | 812.8 | 18 | 546.1 | 317.5 | 10.4 | 228.6 | 457.2 | N-F |
| 1500EWGN | 0.49-0.75 | 1160.8 | 812.8 | 18 | 469.9 | 279.4 | 10.4 | 190.5 | 381 | N-F |
| 1150EWGN | 0.64-0.96 | 1080.8 | 812.8 | 14 | 381 | 235 | 10.4 | 146.05 | 292.1 | N-F |
| 975EWGN | 0.75-1.12 | 994 | 812.8 | 12.7 | 336.6 | 212.7 | 10.08 | 123.82 | 247.65 | N-F |
| 975EWGS | 0.75-1.12 | 994 | 812.8 | 12.7 | 336.6 | 212.7 | 10.08 | 123.82 | 247.65 | SMA-F |
| 770EWGN | 0.96-1.45 | 1098.5 | 939.8 | 12.7 | 285 | 186.7 | 10.08 | 97.79 | 195.58 | N-F |
| 770EWGS | 0.96-1.45 | 1098.5 | 939.8 | 12.7 | 285 | 186.7 | 10.08 | 97.79 | 195.58 | SMA-F |
| 650EWGN | 1.12-1.70 | 963.5 | 812.8 | 12.7 | 220.7 | 138.1 | 8.43 | 82.55 | 165.1 | N-F |
| 650EWGS | 1.12-1.70 | 963.5 | 812.8 | 12.7 | 220.7 | 138.1 | 8.43 | 82.55 | 165.1 | SMA-F |
| 510EWGN | 1.45-2.20 | 772.7 | 635 | 12.7 | 185 | 120 | 8.43 | 64.77 | 129.54 | N-F |
| 510EWGS | 1.45-2.20 | 772.7 | 635 | 12.7 | 185 | 120 | 8.43 | 64.77 | 129.54 | SMA-F |
| 430EWGN | 1.70-2.60 | 638.1 | 533.4 | 12.7 | 161 | 106.4 | 6.76 | 54.61 | 109.22 | N-F |
| 430EWGS | 1.70-2.60 | 638.1 | 533.4 | 12.7 | 161 | 106.4 | 6.76 | 54.61 | 109.22 | SMA-F |
| 340EWGN | 2.20-3.30 | 553.82 | 457.12 | 12.7 | 138.1 | 95.3 | 6.76 | 43.18 | 86.36 | N-F |
| 340EWGS | 2.20-3.30 | 553.82 | 457.12 | 12.7 | 138.1 | 95.3 | 6.76 | 43.18 | 86.36 | SMA-F |

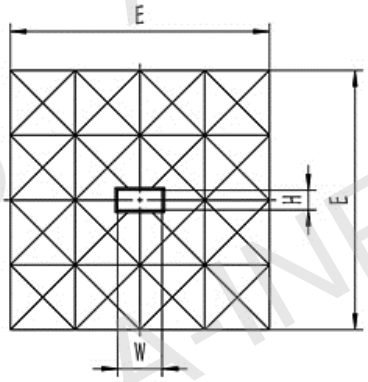

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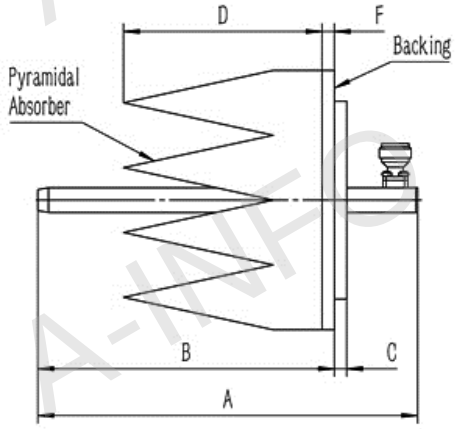
| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 284EWGN | 2.60-3.95 | 433.25 | 355.6 | 9.65 | 134.9 | 120.7 | 6.76 | 34.04 | 72.14 | N-F |
| 284EWGS | 2.60-3.95 | 433.25 | 355.6 | 9.65 | 134.9 | 120.7 | 6.76 | 34.04 | 72.14 | SMA-F |
| | | | | | | | | | | |
| 229EWGN | 3.30-4.90 | 373.4 | 304.8 | 9.65 | 134.9 | 120.7 | 6.76 | 29.08 | 58.17 | N-F |
| 229EWGS | 3.30-4.90 | 373.4 | 304.8 | 9.65 | 134.9 | 120.7 | 6.76 | 29.08 | 58.17 | SMA-F |
| | | | | | | | | | | |
| 187EWGN | 3.95-5.85 | 293.25 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 22.15 | 47.55 | N-F |
| 187EWGS | 3.95-5.85 | 293.25 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 22.15 | 47.55 | SMA-F |
| | | | | | | | | | | |
| 159EWGN | 4.90-7.05 | 280.05 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 20.19 | 40.39 | N-F |
| 159EWGS | 4.90-7.05 | 280.05 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 20.19 | 40.39 | SMA-F |
| | | | | | | | | | | |
| 137EWGN | 5.85-8.20 | 252.85 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 15.8 | 34.85 | N-F |
| 137EWGS | 5.85-8.20 | 252.85 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 15.8 | 34.85 | SMA-F |
| | | | | | | | | | | |
| 112EWGN | 7.05-10.0 | 250.75 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 12.62 | 28.5 | N-F |
| 112EWGS | 7.05-10.0 | 250.75 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 12.62 | 28.5 | SMA-F |
| | | | | | | | | | | |
| 90EWGN | 8.20-12.4 | 195.25 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 10.16 | 22.86 | N-F |
| 90EWGS | 8.20-12.4 | 195.25 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 10.16 | 22.86 | SMA-F |
| | | | | | | | | | | |
| 75EWGN | 10.0-15.0 | 193.85 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 9.53 | 19.05 | N-F |
| 75EWGS | 10.0-15.0 | 193.85 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 9.53 | 19.05 | SMA-F |
| | | | | | | | | | | |
| 62EWGN | 12.4-18.0 | 192.55 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 7.9 | 15.8 | N-F |
| 62EWGS | 12.4-18.0 | 192.55 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 7.9 | 15.8 | SMA-F |
| | | | | | | | | | | |
| 51EWGS | 15.0-22.0 | 191.7 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 6.48 | 12.95 | SMA-F |
| | | | | | | | | | | |
| 42EWGS | 18.0-26.5 | 194.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 10.67 | SMA-F |
| 42EWGK | 18.0-26.5 | 194.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 10.67 | 2.92mm-F |
| | | | | | | | | | | |
| 34EWGK | 22.0-33.0 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 8.64 | 2.92mm-F |
| | | | | | | | | | | |
| 28EWGK | 26.5-40.0 | 183.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 3.56 | 7.11 | 2.92mm-F |
| 28EWG2.4 | 26.5-40.0 | 183.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 3.56 | 7.11 | 2.4mm-F |
| | | | | | | | | | | |
| 22EWG2.4 | 33.0-50.0 | 183.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.85 | 5.69 | 2.4mm-F |
| | | | | | | | | | | |
| 19EWG1.85 | 40.0-60.0 | 185.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.39 | 4.78 | 1.85mm-F |
| 19EWG2.4 | 40.0-50.0 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.39 | 4.78 | 2.4mm-F |
| | | | | | | | | | | |
| 15EWG1.85 | 50.0-65.0 | 187.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 1.88 | 3.76 | 1.85mm-F |



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## 4. Rectangular Waveguide Probes with Right Angle Coaxial Output, Equipped with Absorber




| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 2300EWGN-A1 | 0.32-0.49 | 1344.8 | 812.8 | 23 | - | - | - | 292.1 | 584.2 | N-F |
| 2100EWGN-A1 | 0.35-0.53 | 1298.8 | 812.8 | 23 | - | - | - | 266.7 | 533.4 | N-F |
| 1800EWGN-A1 | 0.41-0.62 | 1229.8 | 812.8 | 18 | - | - | - | 228.6 | 457.2 | N-F |
| 1500EWGN-A1 | 0.49-0.75 | 1160.8 | 812.8 | 18 | 488 | 600 | 18 | 190.5 | 381 | N-F |
| 1150EWGN-A1 | 0.64-0.96 | 1080.8 | 812.8 | 14 | 488 | 600 | 14 | 146.05 | 292.1 | N-F |
| | | | | | | | | | | |
| 975EWGN-A1 | 0.75-1.12 | 994 | 812.8 | 12.7 | 488 | 600 | 12.7 | 123.82 | 247.65 | N-F |
| 975EWGS-A1 | 0.75-1.12 | 994 | 812.8 | 12.7 | 488 | 600 | 12.7 | 123.82 | 247.65 | SMA-F |
| | | | | | | | | | | |
| 770EWGN-A1 | 0.96-1.45 | 1098.5 | 939.8 | 12.7 | 488 | 600 | 12.7 | 97.79 | 195.58 | N-F |
| 770EWGS-A1 | 0.96-1.45 | 1098.5 | 939.8 | 12.7 | 488 | 600 | 12.7 | 97.79 | 195.58 | SMA-F |
| | | | | | | | | | | |
| 650EWGN-A1 | 1.12-1.70 | 963.5 | 812.8 | 12.7 | 295 | 600 | 12.7 | 82.55 | 165.1 | N-F |
| 650EWGS-A1 | 1.12-1.70 | 963.5 | 812.8 | 12.7 | 295 | 600 | 12.7 | 82.55 | 165.1 | SMA-F |
| | | | | | | | | | | |
| 510EWGN-A1 | 1.45-2.20 | 772.7 | 635 | 12.7 | 295 | 600 | 12.7 | 64.77 | 129.54 | N-F |
| 510EWGS-A1 | 1.45-2.20 | 772.7 | 635 | 12.7 | 295 | 600 | 12.7 | 64.77 | 129.54 | SMA-F |
| | | | | | | | | | | |
| 430EWGN-A1 | 1.70-2.60 | 638.1 | 533.4 | 12.7 | 295 | 600 | 12.7 | 54.61 | 109.22 | N-F |
| 430EWGS-A1 | 1.70-2.60 | 638.1 | 533.4 | 12.7 | 295 | 600 | 12.7 | 54.61 | 109.22 | SMA-F |
| | | | | | | | | | | |
| 340EWGN-A1 | 2.20-3.30 | 553.82 | 457.12 | 12.7 | 295 | 600 | 12.7 | 43.18 | 86.36 | N-F |
| 340EWGS-A1 | 2.20-3.30 | 553.82 | 457.12 | 12.7 | 295 | 600 | 12.7 | 43.18 | 86.36 | SMA-F |


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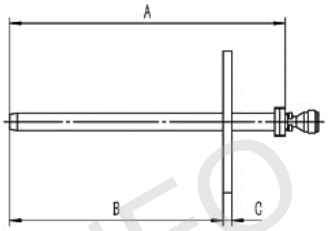
| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 284EWGN-A1 | 2.60-3.95 | 433.25 | 355.6 | 9.65 | 200 | 480 | 9.65 | 34.04 | 72.14 | N-F |
| 284EWGS-A1 | 2.60-3.95 | 433.25 | 355.6 | 9.65 | 200 | 480 | 9.65 | 34.04 | 72.14 | SMA-F |
| 229EWGN-A1 | 3.30-4.90 | 373.4 | 304.8 | 9.65 | 200 | 480 | 9.65 | 29.08 | 58.17 | N-F |
| 229EWGS-A1 | 3.30-4.90 | 373.4 | 304.8 | 9.65 | 200 | 480 | 9.65 | 29.08 | 58.17 | SMA-F |
| 187EWGN-A1 | 3.95-5.85 | 293.25 | 228.6 | 9.65 | 150 | 400 | 9.65 | 22.15 | 47.55 | N-F |
| 187EWGS-A1 | 3.95-5.85 | 293.25 | 228.6 | 9.65 | 150 | 400 | 9.65 | 22.15 | 47.55 | SMA-F |
| 159EWGN-A1 | 4.90-7.05 | 280.05 | 228.6 | 9.65 | 150 | 400 | 9.65 | 20.19 | 40.39 | N-F |
| 159EWGS-A1 | 4.90-7.05 | 280.05 | 228.6 | 9.65 | 150 | 400 | 9.65 | 20.19 | 40.39 | SMA-F |
| 137EWGN-A1 | 5.85-8.20 | 252.85 | 203.2 | 9.65 | 150 | 400 | 9.65 | 15.8 | 34.85 | N-F |
| 137EWGS-A1 | 5.85-8.20 | 252.85 | 203.2 | 9.65 | 150 | 400 | 9.65 | 15.8 | 34.85 | SMA-F |
| 112EWGN-A1 | 7.05-10.0 | 250.75 | 203.2 | 9.65 | 150 | 400 | 9.65 | 12.62 | 28.5 | N-F |
| 112EWGS-A1 | 7.05-10.0 | 250.75 | 203.2 | 9.65 | 150 | 400 | 9.65 | 12.62 | 28.5 | SMA-F |
| 90EWGN-A1 | 8.20-12.4 | 195.25 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 10.16 | 22.86 | N-F |
| 90EWGS-A1 | 8.20-12.4 | 195.25 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 10.16 | 22.86 | SMA-F |
| 75EWGN-A1 | 10.0-15.0 | 193.85 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 9.53 | 19.05 | N-F |
| 75EWGS-A1 | 10.0-15.0 | 193.85 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 9.53 | 19.05 | SMA-F |
| 62EWGN-A1 | 12.4-18.0 | 192.55 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 7.9 | 15.8 | N-F |
| 62EWGS-A1 | 12.4-18.0 | 192.55 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 7.9 | 15.8 | SMA-F |
| 51EWGS-A1 | 15.0-22.0 | 191.7 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 6.48 | 12.95 | SMA-F |
| 42EWGS-A1 | 18.0-26.5 | 194.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 10.67 | SMA-F |
| 42EWGK-A1 | 18.0-26.5 | 194.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 10.67 | 2.92mm-F |
| 34EWGK-A1 | 22.0-33.0 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 8.64 | 2.92mm-F |
| 28EWGK-A1 | 26.5-40.0 | 183.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 3.56 | 7.11 | 2.92mm-F |
| 28EWG2.4-A1 | 26.5-40.0 | 183.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 3.56 | 7.11 | 2.4mm-F |
| 22EWG2.4-A1 | 33.0-50.0 | 183.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.85 | 5.69 | 2.4mm-F |
| 19EWG1.85-A1 | 40.0-60.0 | 185.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.39 | 4.78 | 1.85mm-F |
| 19EWG2.4-A1 | 40.0-50.0 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.39 | 4.78 | 2.4mm-F |
| 15EWG1.85-A1 | 50.0-65.0 | 187.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 1.88 | 3.76 | 1.85mm-F |

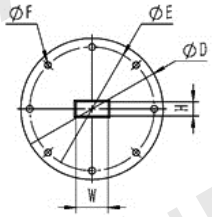


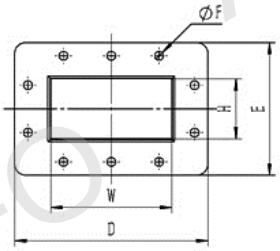
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## 5. Rectangular Waveguide Probes with Endlaunch Coaxial Output






| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 975EWGEN | 0.75-1.12 | 1110.5 | 812.8 | 12.7 | 336.6 | 212.7 | 10.08 | 123.82 | 247.65 | N-F |
| 770EWGEN | 0.96-1.45 | - | 939.8 | 12.7 | 285 | 186.7 | 10.08 | 97.79 | 195.58 | N-F |
| 650EWGEN | 1.12-1.70 | 1015.5 | 812.8 | 12.7 | 220.7 | 138.1 | 8.43 | 82.55 | 165.1 | N-F |
| 510EWGEN | 1.45-2.20 | - | 635 | 12.7 | 185 | 120 | 8.43 | 64.77 | 129.54 | N-F |
| | | | | | | | | | | |
| 430EWGEN | 1.70-2.60 | 674.41 | 533.4 | 12.7 | 161 | 106.4 | 6.76 | 54.61 | 109.22 | N-F |
| 430EWGES | 1.70-2.60 | 674.41 | 533.4 | 12.7 | 161 | 106.4 | 6.76 | 54.61 | 109.22 | SMA-F |
| | | | | | | | | | | |
| 340EWGEN | 2.20-3.30 | 573.22 | 457.12 | 12.7 | 138.1 | 95.3 | 6.76 | 43.18 | 86.36 | N-F |
| 340EWGES | 2.20-3.30 | 573.22 | 457.12 | 12.7 | 138.1 | 95.3 | 6.76 | 43.18 | 86.36 | SMA-F |
| | | | | | | | | | | |
| 284EWGEN | 2.60-3.95 | 453.35 | 355.6 | 9.65 | 134.9 | 120.7 | 6.76 | 34.04 | 72.14 | N-F |
| 284EWGES | 2.60-3.95 | 453.35 | 355.6 | 9.65 | 134.9 | 120.7 | 6.76 | 34.04 | 72.14 | SMA-F |
| | | | | | | | | | | |
| 229EWGEN | 3.30-4.90 | 387.45 | 304.8 | 9.65 | 134.9 | 120.7 | 6.76 | 29.08 | 58.17 | N-F |
| 229EWGES | 3.30-4.90 | 387.45 | 304.8 | 9.65 | 134.9 | 120.7 | 6.76 | 29.08 | 58.17 | SMA-F |
| | | | | | | | | | | |
| 187EWGEN | 3.95-5.85 | 300.25 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 22.15 | 47.55 | N-F |
| | | | | | | | | | | |
| 159EWGEN | 4.90-7.05 | 292.25 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 20.19 | 40.39 | N-F |
| 159EWGES | 4.90-7.05 | 292.25 | 228.6 | 9.65 | 101.6 | 88.9 | 4.8 | 20.19 | 40.39 | SMA-F |
| | | | | | | | | | | |
| 137EWGEN | 5.85-8.20 | 260.85 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 15.8 | 34.85 | N-F |
| | | | | | | | | | | |
| 112EWGEN | 7.05-10.0 | 252.85 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 12.62 | 28.5 | N-F |
| 112EWGES | 7.05-10.0 | 252.85 | 203.2 | 9.65 | 101.6 | 88.9 | 4.8 | 12.62 | 28.5 | SMA-F |
| | | | | | | | | | | |
| 90EWGEN | 8.20-12.4 | 196.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 10.16 | 22.86 | N-F |
| 75EWGEN | 10.0-15.0 | 188.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 9.53 | 19.05 | N-F |
| 62EWGEN | 12.4-18.0 | 185.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 7.9 | 15.8 | N-F |
| 51EWGES | 15.0-22.0 | 185.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 6.48 | 12.95 | SMA-F |

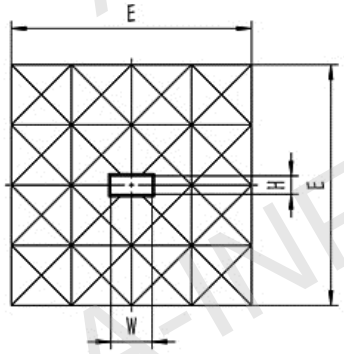

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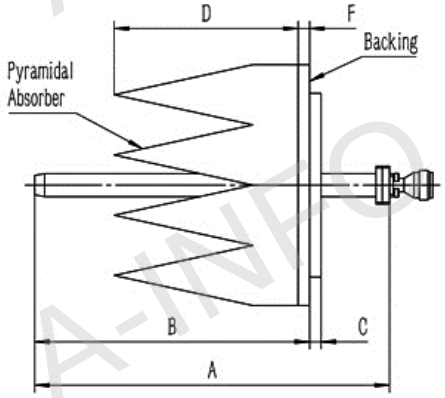
| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 42EWGES | 18.0-26.5 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 10.67 | SMA-F |
| 42EWGEK | 18.0-26.5 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 10.67 | 2.92mm-F |
| | | | | | | | | | | |
| 34EWGEK | 22.0-33.0 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 4.32 | 8.64 | 2.92mm-F |
| | | | | | | | | | | |
| 28EWGEK | 26.5-40.0 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 3.56 | 7.11 | 2.92mm-F |
| 28EWGE2.4 | 26.5-40.0 | 184.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 3.56 | 7.11 | 2.4mm-F |
| | | | | | | | | | | |
| 22EWGE2.4 | 33.0-50.0 | 174.75 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.85 | 5.69 | 2.4mm-F |
| | | | | | | | | | | |
| 19EWGE1.85 | 40.0-60.0 | 172.25 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.39 | 4.78 | 1.85mm-F |
| 19EWGE2.4 | 40.0-50.0 | 171.25 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 2.39 | 4.78 | 2.4mm-F |
| | | | | | | | | | | |
| 15EWGE1.85 | 50.0-65.0 | 176.45 | 152.4 | 6.35 | 101.6 | 88.9 | 4.8 | 1.88 | 3.76 | 1.85mm-F |



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## 6. Rectangular Waveguide Probes with Endlaunch Coaxial Output, Equipped with Absorber




| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 975EWGEN-A1 | 0.75-1.12 | 1110.5 | 812.8 | 12.7 | 488 | 600 | 12.7 | 123.82 | 247.65 | N-F |
| 770EWGEN-A1 | 0.96-1.45 | - | 939.8 | 12.7 | 488 | 600 | 12.7 | 97.79 | 195.58 | N-F |
| 650EWGEN-A1 | 1.12-1.70 | 1015.5 | 812.8 | 12.7 | 295 | 600 | 12.7 | 82.55 | 165.1 | N-F |
| 510EWGEN-A1 | 1.45-2.20 | - | 635 | 12.7 | 295 | 600 | 12.7 | 64.77 | 129.54 | N-F |
| | | | | | | | | | | |
| 430EWGEN-A1 | 1.70-2.60 | 674.41 | 533.4 | 12.7 | 295 | 600 | 12.7 | 54.61 | 109.22 | N-F |
| 430EWGES-A1 | 1.70-2.60 | 674.41 | 533.4 | 12.7 | 295 | 600 | 12.7 | 54.61 | 109.22 | SMA-F |
| | | | | | | | | | | |
| 340EWGEN-A1 | 2.20-3.30 | 573.22 | 457.12 | 12.7 | 295 | 600 | 12.7 | 43.18 | 86.36 | N-F |
| 340EWGES-A1 | 2.20-3.30 | 573.22 | 457.12 | 12.7 | 295 | 600 | 12.7 | 43.18 | 86.36 | SMA-F |
| | | | | | | | | | | |
| 284EWGEN-A1 | 2.60-3.95 | 453.35 | 355.6 | 9.65 | 200 | 480 | 9.65 | 34.04 | 72.14 | N-F |
| 284EWGES-A1 | 2.60-3.95 | 453.35 | 355.6 | 9.65 | 200 | 480 | 9.65 | 34.04 | 72.14 | SMA-F |
| | | | | | | | | | | |
| 229EWGEN-A1 | 3.30-4.90 | 387.45 | 304.8 | 9.65 | 200 | 480 | 9.65 | 29.08 | 58.17 | N-F |
| 229EWGES-A1 | 3.30-4.90 | 387.45 | 304.8 | 9.65 | 200 | 480 | 9.65 | 29.08 | 58.17 | SMA-F |
| | | | | | | | | | | |
| 187EWGEN-A1 | 3.95-5.85 | 300.25 | 228.6 | 9.65 | 150 | 400 | 9.65 | 22.15 | 47.55 | N-F |
| | | | | | | | | | | |
| 159EWGEN-A1 | 4.90-7.05 | 292.25 | 228.6 | 9.65 | 150 | 400 | 9.65 | 20.19 | 40.39 | N-F |
| 159EWGES-A1 | 4.90-7.05 | 292.25 | 228.6 | 9.65 | 150 | 400 | 9.65 | 20.19 | 40.39 | SMA-F |
| | | | | | | | | | | |
| 137EWGEN-A1 | 5.85-8.20 | 260.85 | 203.2 | 9.65 | 150 | 400 | 9.65 | 15.8 | 34.85 | N-F |
| | | | | | | | | | | |
| 112EWGEN-A1 | 7.05-10.0 | 252.85 | 203.2 | 9.65 | 150 | 400 | 9.65 | 12.62 | 28.5 | N-F |
| 112EWGES-A1 | 7.05-10.0 | 252.85 | 203.2 | 9.65 | 150 | 400 | 9.65 | 12.62 | 28.5 | SMA-F |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Size(mm) | | | | | | | | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Figure1 | | | Figure2/3 | | | | | |
| | | A | B | C | D | E | F | H | W | |
| 90EWGEN-A1 | 8.20-12.4 | 196.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 10.16 | 22.86 | N-F |
| 75EWGEN-A1 | 10.0-15.0 | 188.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 9.53 | 19.05 | N-F |
| 62EWGEN-A1 | 12.4-18.0 | 185.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 7.9 | 15.8 | N-F |
| 51EWGES-A1 | 15.0-22.0 | 185.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 6.48 | 12.95 | SMA-F |
| | | | | | | | | | | |
| 42EWGES-A1 | 18.0-26.5 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 10.67 | SMA-F |
| 42EWGEK-A1 | 18.0-26.5 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 10.67 | 2.92mm-F |
| | | | | | | | | | | |
| 34EWGEK-A1 | 22.0-33.0 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 4.32 | 8.64 | 2.92mm-F |
| | | | | | | | | | | |
| 28EWGEK-A1 | 26.5-40.0 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 3.56 | 7.11 | 2.92mm-F |
| 28EWGE2.4-A1 | 26.5-40.0 | 184.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 3.56 | 7.11 | 2.4mm-F |
| | | | | | | | | | | |
| 22EWGE2.4-A1 | 33.0-50.0 | 174.75 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.85 | 5.69 | 2.4mm-F |
| | | | | | | | | | | |
| 19EWGE2.4-A1 | 40.0-60.0 | 172.25 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.39 | 4.78 | 1.85mm-F |
| 19EWGE1.85-A1 | 40.0-60.0 | 171.25 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 2.39 | 4.78 | 2.4mm-F |
| | | | | | | | | | | |
| 15EWGE1.85-A1 | 50.0-65.0 | 176.45 | 152.4 | 6.35 | 102 | 399.6 | 6.35 | 1.88 | 3.76 | 1.85mm-F |



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# Open Ended Waveguide Probes 18.0~26.5GHz

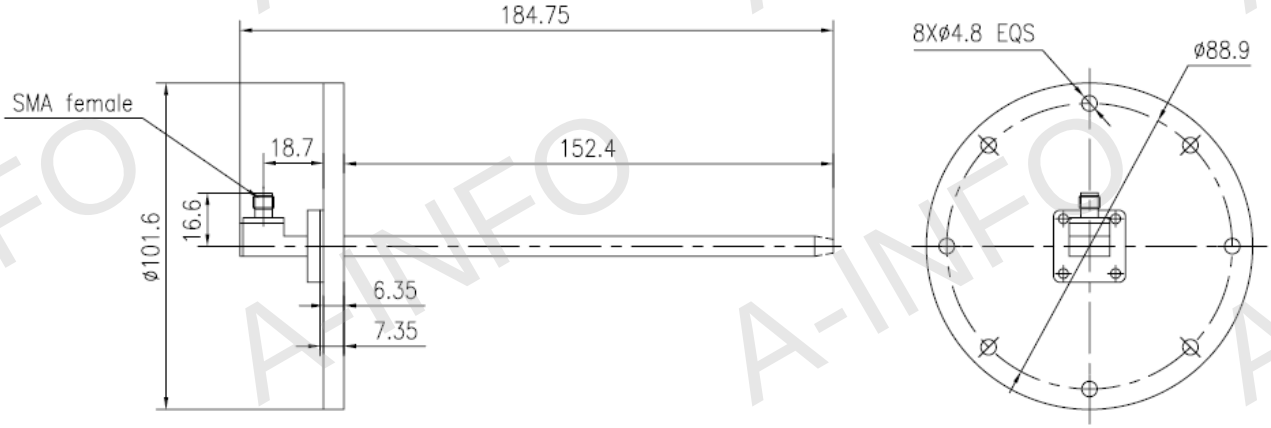
**P/N: 42EWG**



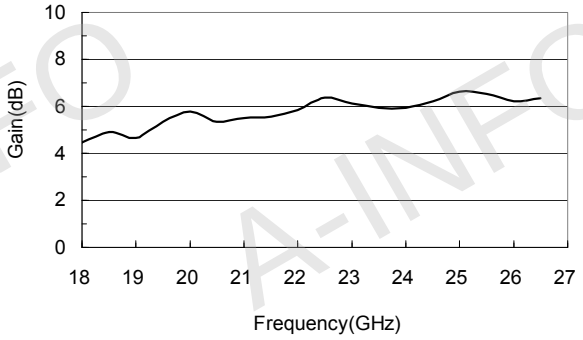
## Technical Specification

| | |
|---|---|
| Frequency(GHz) | 18.0-26.5 |
| Gain (dB) | 5 Typ. |
| VSWR | 2.0 Typ. |
| Connector | SMA-F/2.92mm-F/3.5mm-F |
| Material | Cu |
| Length(mm) | 184.75 |
| Net Weight(Kg) | 0.55 Around |

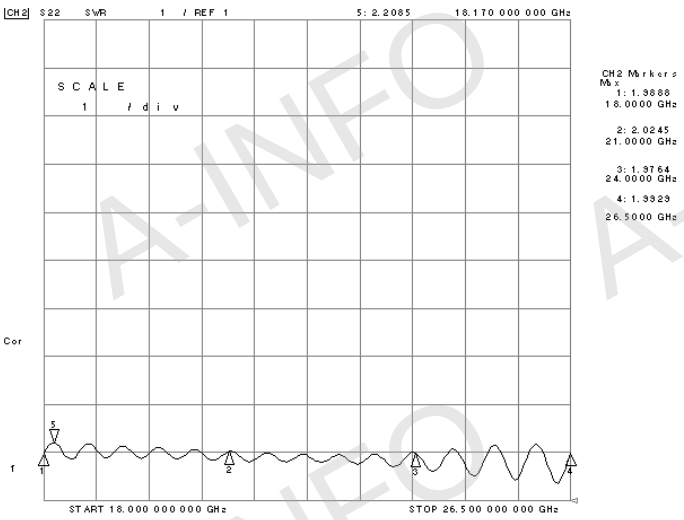
## Outline Drawing(Size: mm)



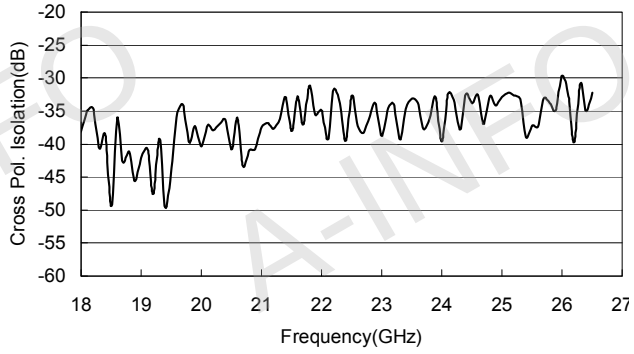

## Gain




## VSWR




## Cross Pol. Isolation





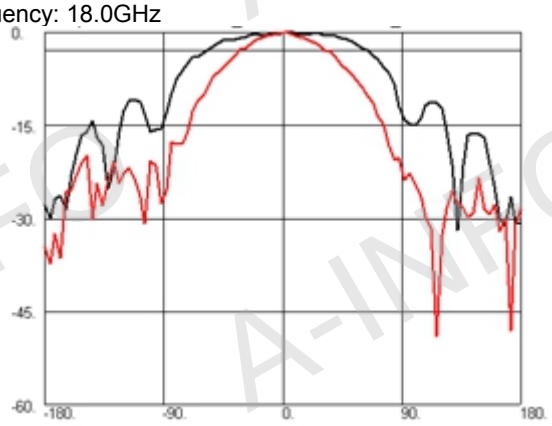

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# Open Ended Waveguide Probes 18.0~26.5GHz(continued)

**P/N: 42EWG**

**Pattern**

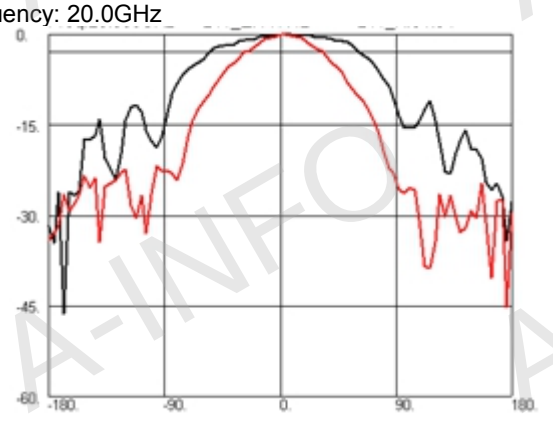
Frequency: 18.0GHz




H-Plane ——
3dB Beamwidth (deg): 64.81

E-Plane ——
3dB Beamwidth (deg): 122.05

Frequency: 20.0GHz




H-Plane ——
3dB Beamwidth (deg): 61.64

E-Plane ——
3dB Beamwidth (deg): 117.42

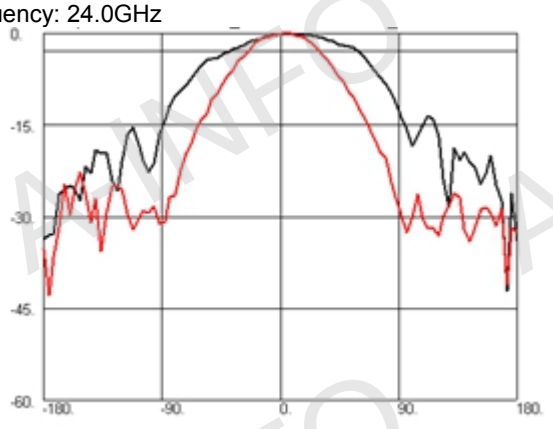
Frequency: 22.0GHz




H-Plane ——
3dB Beamwidth (deg): 55.54

E-Plane ——
3dB Beamwidth (deg): 108.26

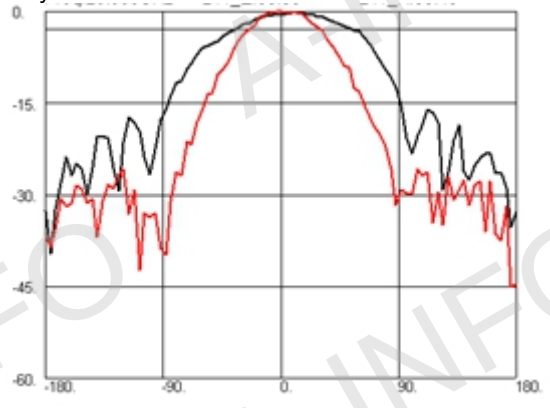
Frequency: 24.0GHz




H-Plane ——
3dB Beamwidth (deg): 54.19

E-Plane ——
3dB Beamwidth (deg): 99.64

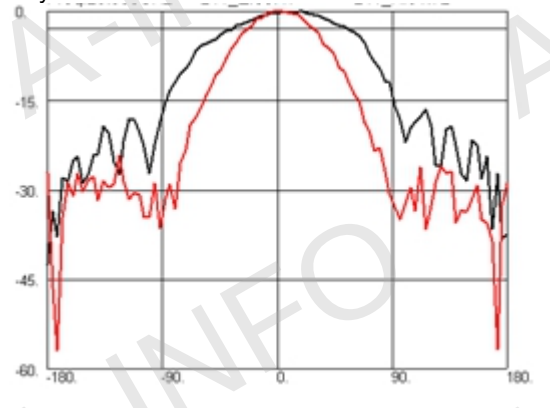
Frequency: 26.0GHz




H-Plane ——
3dB Beamwidth (deg): 55.43

E-Plane ——
3dB Beamwidth (deg): 90.08

Frequency: 26.5GHz

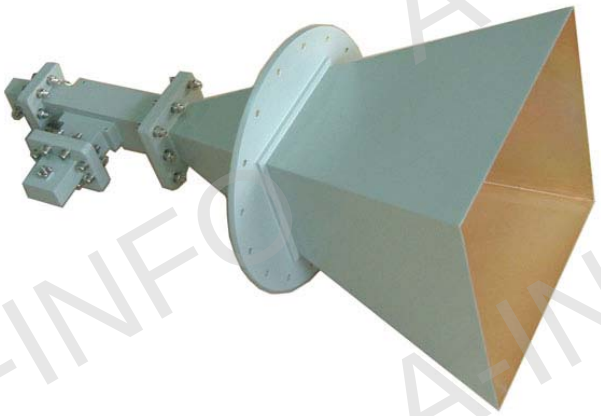



H-Plane ——
3dB Beamwidth (deg): 51.72

E-Plane ——
3dB Beamwidth (deg): 90.47


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# Ortho-Mode Transducer (OMT) Horn Antenna



*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – OMT Horn Antenna and download.*

| Model | Freq. Range (GHz) | Polarization | Gain (dB) min. | VSWR Typ. | Cross Isolation (dB) min. | Connector | Size (mm) |
|---|---|---|---|---|---|---|---|
| LB-OMT-5060-SF | 5.0-6.0 | Dual | 20 | 2.0 | 30 | SMA-F | 270 x 270 x 620 |
| LB-OMT-5060-NF | 5.0-6.0 | Dual | 20 | 2.0 | 30 | N-F | 270 x 270 x 620 |
| LB-OMT-90100-SF | 9.0-10.0 | Dual | 20 | 2.0 | 30 | SMA-F | 150 x 150 x 358 |
| LB-OMT-90100-NF | 9.0-10.0 | Dual | 20 | 2.0 | 30 | N-F | 150 x 150 x 358 |
| LB-OMT-150220-SF | 15.0-22.0 | Dual | 15 | 2.0 Max | 30 | SMA-F | 43 x 43x 79.5 |

Notes:

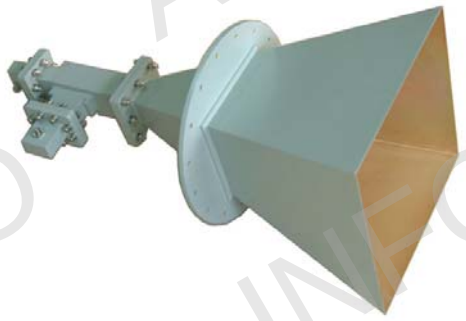
1,The Conical and Corrugated Conical horn antenna can also be applied to OMT Horn to get better sidelobe and radiation Pattern.

2,Customization is available.


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# Ortho-Mode Transducer (OMT) Horn Antenna 5.0~6.0GHz

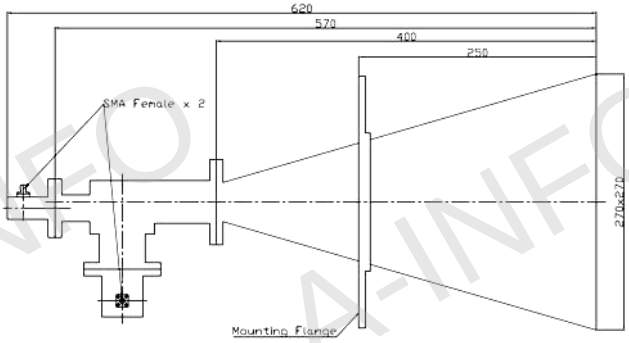
**P/N: LB-OMT-5060**



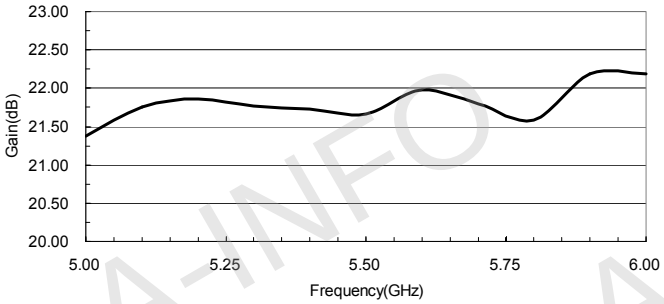
## Technical Specification

| | |
|---|---|
| Polarization | Dual Linear |
| Frequency(GHz) | 5.0-6.0 |
| Gain (dB) | 20 min. |
| VSWR | 2.0 Typ. |
| Cross Isolation(dB) | 30 min. |
| Power Handling(W) | 10 min. |
| Connector | SMA-Female |
| Net Weight(Kg) | 3.6 Around |

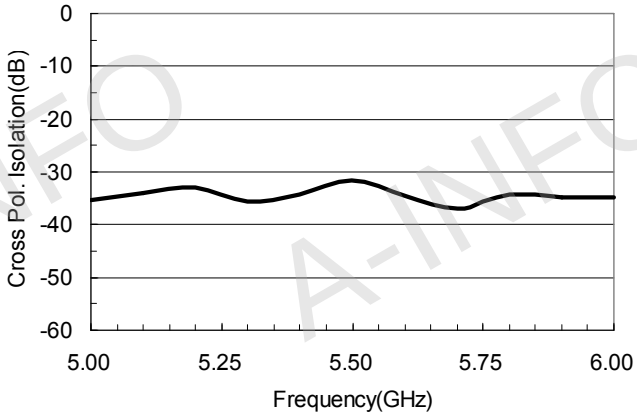
## Outline Drawing(Size: mm)



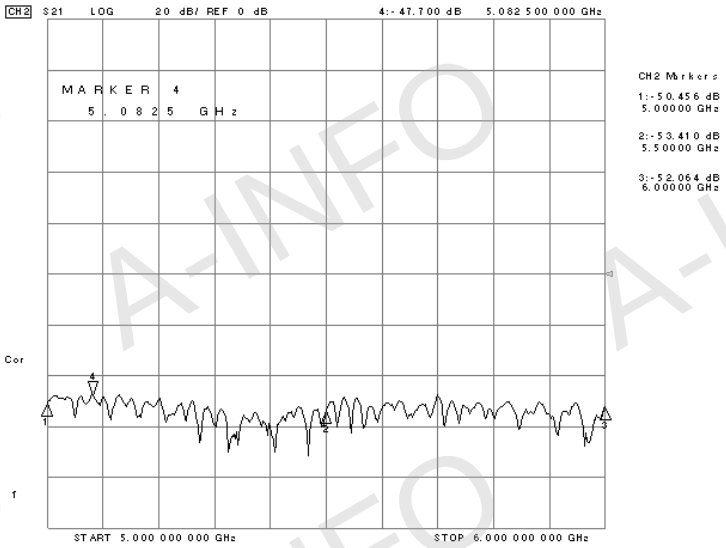

## Gain




## Cross Polarization Isolation




## Port to Port Isolation



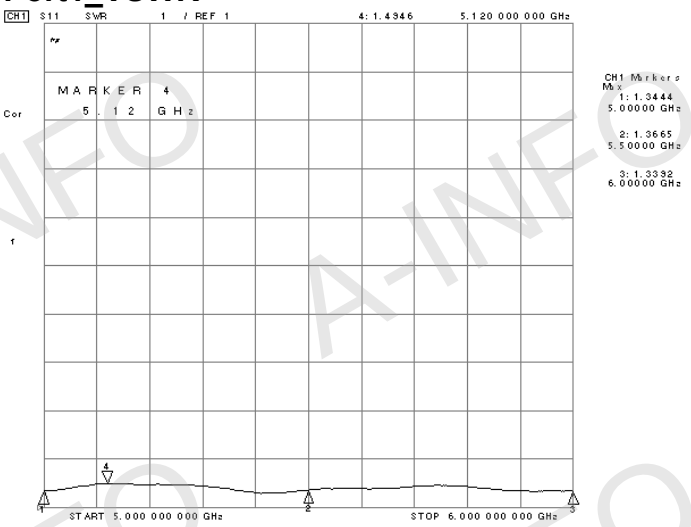


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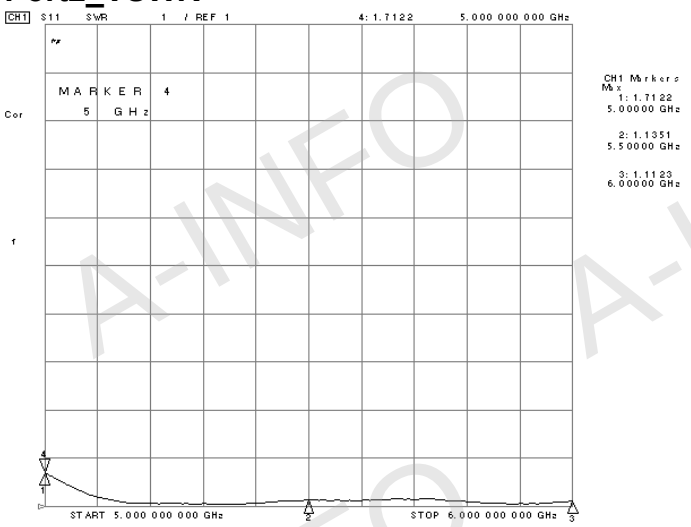
# *Ortho-Mode Transducer (OMT) Horn Antenna 5.0~6.0GHz (continued)*

**P/N: LB-OMT-5060**

## Port1_VSWR

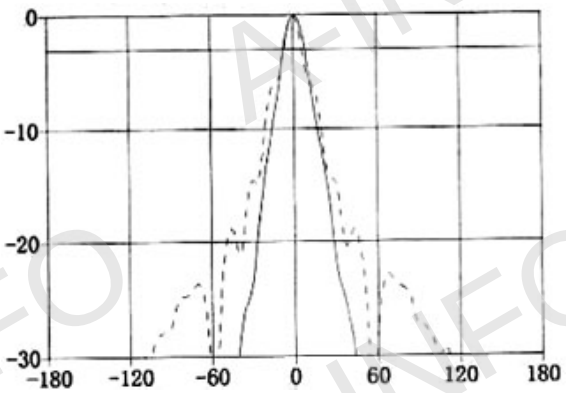



## Port2_VSWR




## Pattern

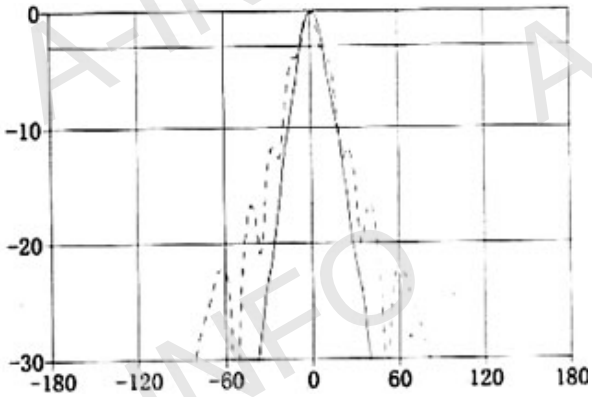
5.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 15.29 3dB Beamwidth (deg): 12.81

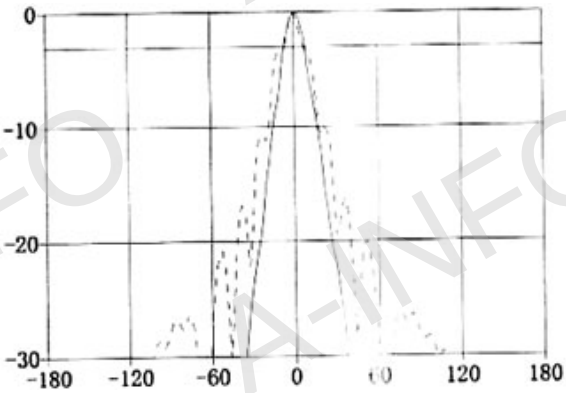
5.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 15.40 3dB Beamwidth (deg): 13.26

6.0GHz




H-Plane ——— E-Plane - - - - -

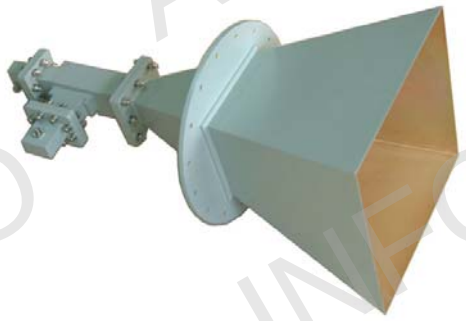
3dB Beamwidth (deg): 14.78 3dB Beamwidth (deg): 14.18



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# Ortho-Mode Transducer (OMT) Horn Antenna 9.0~10.0GHz

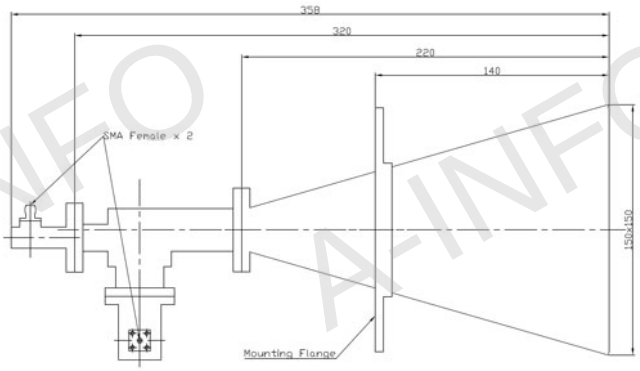
**P/N: LB-OMT-90100**



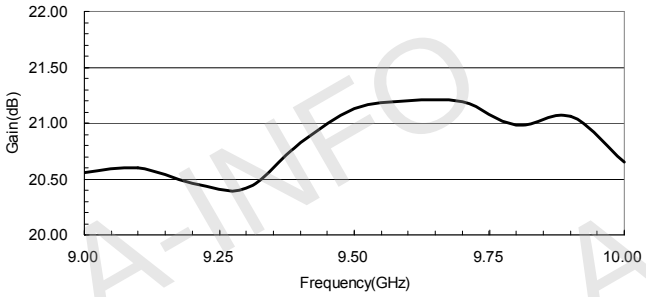
## Technical Specification

| | |
|---|---|
| Polarization | Dual Linear |
| Frequency(GHz) | 9.0-10.0 |
| Gain (dB) | 20 min. |
| VSWR | 2.0 Typ. |
| Cross Isolation(dB) | 30 min. |
| Power Handling(W) | 10 min. |
| Connector | SMA-Female |

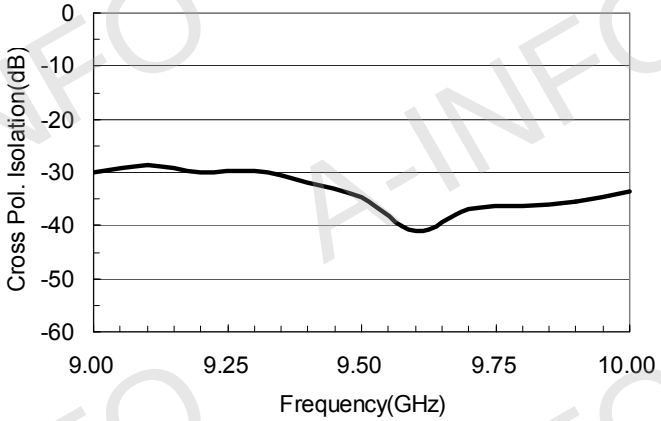
## Outline Drawing(Size: mm)



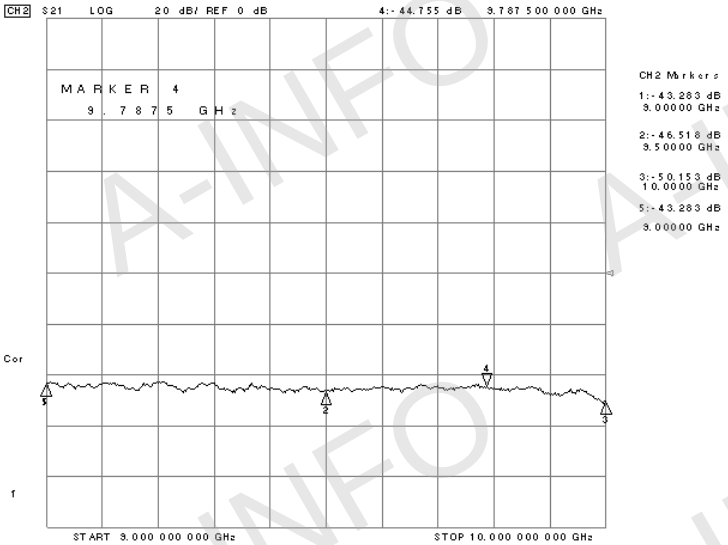

## Gain




## Cross Polarization Isolation




## Port to Port Isolation



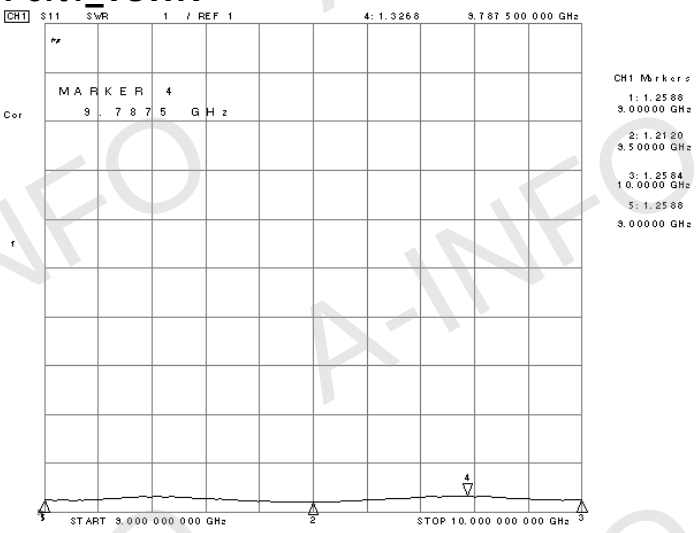



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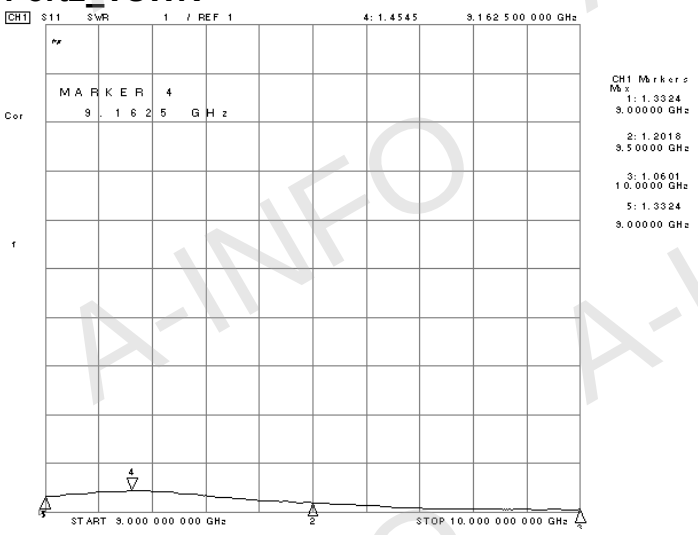
# *Ortho-Mode Transducer (OMT) Horn Antenna 9.0~10.0GHz (continued)*

**P/N: LB-OMT-90100**

## Port1_VSWR

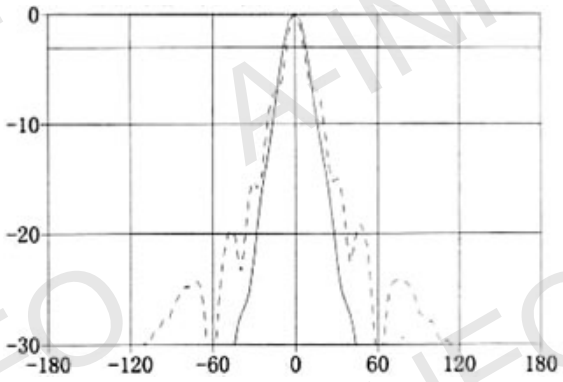



## Port2_VSWR




## Pattern

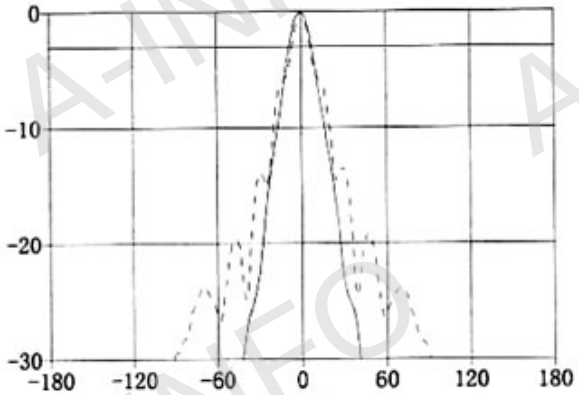
9.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 16.37 3dB Beamwidth (deg): 12.49

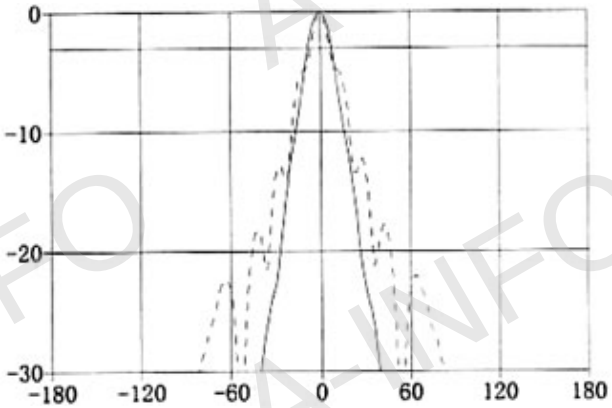
9.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 15.69 3dB Beamwidth (deg): 12.62

10.0GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 15.69 3dB Beamwidth (deg): 12.37



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# Conical Horn Antenna

## Include the following Types Conical Horn Antennas :

1. Conical Horn with EIA Standard Circular WG Interface (Table 1)
2. Conical Horn with Other Circular WG Interface(Table 2)
3. Conical Horn with Rectangular WG Transition - Linear Polarization (Table 3)
4. Conical Horn with Integrated Rectangular WG Transition - Linear Polarization (Table 4)
5. Conical Horn with Polarizer and Rectangular WG Transition - Circular Polarization (Table 5)
6. Conical Horn with Ortho-Mode Transducer (OMT) - Dual Linear Polarization (Table 6)
7. Conical Horn with Polarizer and Ortho-Mode Transducer (OMT) - Dual Circular Polarization (coming soon)

The LB-CNH series conical horn antennas have four kinds of polarization options: Linear, Circular(RHCP/LHCP), Dual Linear and Dual Circular. And YLB series conical horn antennas are Linear Polarization. A-INFO's conical horn antenna can cover from 5.3GHz to 220GHz frequency range. Those conical horns are precisely fabricated to minimize the tolerance of aperture size and flare angle. These horns are ideally suited for antenna far field testing, RF radiation measurements and other applications.

Model Information

| Example Part Number: | LB-CNH | -90 | -10 | -T06 | -C | -SF |
|---|---|---|---|---|---|---|
| Product Code | | | | | | |
| Waveguide Size: WR137 to WR5<br>EIA WC Size or Customized Size | | | | | | |
| Gain in dB, Standard gain is 15dB, 20dB, 25dB | | | | | | |
| Polarization options, For Circular and Dual Pol. modules.<br>Leave blank for Linear Polarization modules. | | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female;<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | | |

## Calibration Option

Far Field Calibration Data with Extra Fee

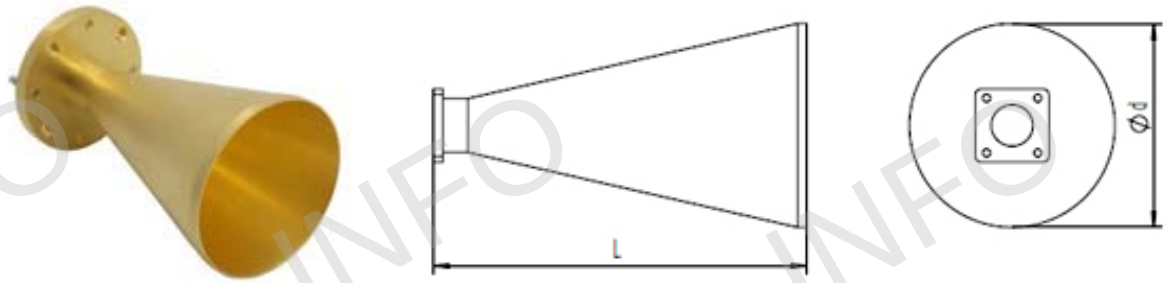
## Horn Antenna Accessories

1. Mounting Bracket
2. Tripod
3. Radome
4. Carrying Case


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*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Conical Horn Antenna and download.*

## 1. Conical Horn with EIA Standard Circular WG Interface




| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | Output | Size (mm) ϕd | Size (mm) L | Material |
|---|---|---|---|---|---|---|---|---|---|
| LB-CNH-WC150-10 | 5.30~7.27 | WC150 | 10 | Linear | A | FAP70-M | - | - | Al |
| LB-CNH-WC150-15 | | | 15 | Linear | A | FAP70-M | - | - | Al |
| LB-CNH-WC150-20 | | | 20 | Linear | A | FAP70-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-WC128-10 | 6.21~8.51 | WC128 | 10 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-WC128-15 | | | 15 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-WC128-20 | | | 20 | Linear | A | FBP84 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-WC109-10 | 7.27~9.97 | WC109 | 10 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-WC109-15 | | | 15 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-WC109-20 | | | 20 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-WC109-25 | | | 25 | Linear | A | FBP84 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-WC94-10 | 8.49~11.60 | WC94 | 10 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-WC94-15 | | | 15 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-WC94-20 | | | 20 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-WC94-25 | | | 25 | Linear | A | FBP100 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-WC80-10 | 9.97~13.70 | WC80 | 10 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC80-15 | | | 15 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC80-20 | | | 20 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC80-25 | | | 25 | Linear | A | FBP120 | - | - | Al |


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| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-WC69-10 | 11.60~15.90 | WC69 | 10 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC69-15 | | | 15 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC69-20 | | | 20 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC69-25 | | | 25 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-WC59-10 | 13.40~18.40 | WC59 | 10 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-WC59-15 | | | 15 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-WC59-20 | | | 20 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-WC59-25 | | | 25 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-WC50-10 | 15.90~21.80 | WC50 | 10 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-WC50-15 | | | 15 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-WC50-20 | | | 20 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-WC50-25 | | | 25 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-WC44-10 | 18.20~24.90 | WC44 | 10 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC44-15 | | | 15 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC44-20 | | | 20 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC44-25 | | | 25 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC38-10 | 21.20~29.10 | WC38 | 10 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC38-15 | | | 15 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC38-20 | | | 20 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC38-25 | | | 25 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC33-10 | 24.30~33.20 | WC33 | 10 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC33-15 | | | 15 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC33-20 | | | 20 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC33-25 | | | 25 | Linear | A | UG-595/U-M | - | - | Al |
| LB-CNH-WC28-10 | 28.30~38.80 | WC28 | 10 | Linear | A | UG-381/U-M | - | - | Cu |
| LB-CNH-WC28-15 | | | 15 | Linear | A | UG-381/U-M | - | - | Cu |
| LB-CNH-WC28-20 | | | 20 | Linear | A | UG-381/U-M | - | - | Cu |
| LB-CNH-WC28-25 | | | 25 | Linear | A | UG-381/U-M | - | - | Cu |
| LB-CNH-WC25-10 | 31.80~43.00 | WC25 | 10 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC25-15 | | | 15 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC25-20 | | | 20 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC25-25 | | | 25 | Linear | A | UG-383/U-M | - | - | Cu |



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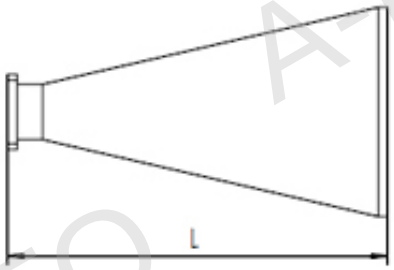
| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-WC22-10 | 36.40~49.80 | WC22 | 10 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC22-15 | | | 15 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC22-20 | | | 20 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC22-25 | | | 25 | Linear | A | UG-383/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC19-10 | 42.40~58.10 | WC19 | 10 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC19-15 | | | 15 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC19-20 | | | 20 | Linear | A | UG-383/U-M | - | - | Cu |
| LB-CNH-WC19-25 | | | 25 | Linear | A | UG-383/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC17-10 | 46.30~63.50 | WC17 | 10 | Linear | A | UG-385/U-M | - | - | Cu |
| LB-CNH-WC17-15 | | | 15 | Linear | A | UG-385/U-M | - | - | Cu |
| LB-CNH-WC17-20 | | | 20 | Linear | A | UG-385/U-M | - | - | Cu |
| LB-CNH-WC17-25 | | | 25 | Linear | A | UG-385/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC14-10 | 56.60~77.50 | WC14 | 10 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC14-15 | | | 15 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC14-20 | | | 20 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC14-25 | | | 25 | Linear | A | UG-387/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC13-10 | 63.50~87.20 | WC13 | 10 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC13-15 | | | 15 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC13-20 | | | 20 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC13-25 | | | 25 | Linear | A | UG-387/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC11-10 | 72.70~99.70 | WC11 | 10 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC11-15 | | | 15 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC11-20 | | | 20 | Linear | A | UG-387/U-M | - | - | Cu |
| LB-CNH-WC11-25 | | | 25 | Linear | A | UG-387/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-WC9-10 | 84.80~116.00 | WC9 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-WC9-15 | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-WC9-20 | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-WC9-25 | | | 25 | Linear | A | UG387/U-M | - | - | Cu |

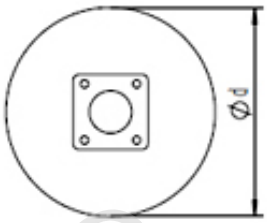


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## 2. Conical Horn with Other Circular WG Interface






| Model | Frequency (GHz) | Size (mm/inch) | Gain (dB) | Pol. | Figure | Output | Size (mm) ϕd | Size (mm) L | Material |
|---|---|---|---|---|---|---|---|---|---|
| LB-CNH-C25-10 | 8.20-12.4 | 25/0.984 | 10 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-C25-15 | | | 15 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-C25-20 | | | 20 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-C25-25 | | | 25 | Linear | A | FBP100 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C21.5-10 | 10.0-15.0 | 21.5/0.846 | 10 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-C21.5-15 | | | 15 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-C21.5-20 | | | 20 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-C21.5-25 | | | 25 | Linear | A | FBP120 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C16.76-10 | 12.4-14.6 | 16.76/0.660 | 10 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-C16.76-15 | | | 15 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-C16.76-20 | | | 20 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-C16.76-25 | | | 25 | Linear | A | FBP140 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C13.97-10 | 14.6-17.5 | 13.97/0.550 | 10 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-C13.97-15 | | | 15 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-C13.97-20 | | | 20 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-C13.97-25 | | | 25 | Linear | A | FBP180 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C11.94-10 | 17.5-20.5 | 11.94/0.470 | 10 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C11.94-15 | | | 15 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C11.94-20 | | | 20 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C11.94-25 | | | 25 | Linear | A | FBP220 | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C10.06-10 | 20.5-24.5 | 10.06/0.396 | 10 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C10.06-15 | | | 15 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C10.06-20 | | | 20 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-C10.06-25 | | | 25 | Linear | A | FBP220 | - | - | Al |


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| Model | Frequency (GHz) | Size (mm/inch) | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-C8.0-10 | 26.0-33.0 | 8.0/0.315 | 10 | Linear | A | UG381/U-M | - | - | Al |
| LB-CNH-C8.0-15 | | | 15 | Linear | A | UG381/U-M | - | - | Al |
| LB-CNH-C8.0-20 | | | 20 | Linear | A | UG381/U-M | 47.5 | 83.8 | Cu |
| LB-CNH-C8.0-25 | | | 25 | Linear | A | UG381/U-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C4.191-10 | 50.0-58.0 | 4.191/0.165 | 10 | Linear | A | UG383/U-M | - | - | Al |
| LB-CNH-C4.191-15 | | | 15 | Linear | A | UG383/U-M | - | - | Al |
| LB-CNH-C4.191-20 | | | 20 | Linear | A | UG383/U-M | - | - | Al |
| LB-CNH-C4.191-25 | | | 25 | Linear | A | UG383/U-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C2.083-10 | 100.0-112.0 | 2.083/0.082 | 10 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C2.083-15 | | | 15 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C2.083-20 | | | 20 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C2.083-25 | | | 25 | Linear | A | UG387/U-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C1.905-10 | 112.0-125.0 | 1.905/0.075 | 10 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.905-15 | | | 15 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.905-20 | | | 20 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.905-25 | | | 25 | Linear | A | UG387/U-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C1.702-10 | 125.0-140.0 | 1.702/0.067 | 10 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.702-15 | | | 15 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.702-20 | | | 20 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.702-25 | | | 25 | Linear | A | UG387/U-M | - | - | Al |
| | | | | | | | | | |
| LB-CNH-C1.499-10 | 140.0-160.0 | 1.499/0.059 | 10 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.499-15 | | | 15 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.499-20 | | | 20 | Linear | A | UG387/U-M | - | - | Al |
| LB-CNH-C1.499-25 | | | 25 | Linear | A | UG387/U-M | - | - | Al |

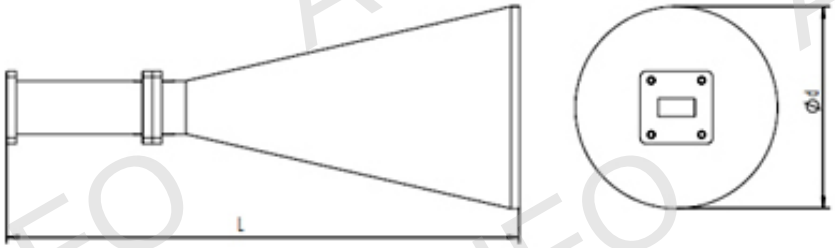


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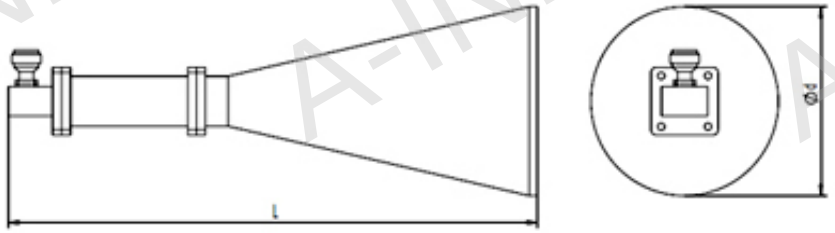
## 3. Conical Horn with Rectangular WG Transition - Linear Polarization

A Type, WG Output:






C Type, Coaxial Output:




| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-137-10-A | 5.85-8.20 | WR137 | 10 | Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-10-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-137-15-A | | | 15 | Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-15-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-137-20-A | | | 20 | Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-20-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| LB-CNH-112-10-A | 7.05-10.0 | WR112 | 10 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-10-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-112-15-A | | | 15 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-15-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-112-20-A | | | 20 | Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-20-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| LB-CNH-90-10-A | 8.20-12.4 | WR90 | 10 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-10-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-15-A | | | 15 | Linear | A | FBP100 | 66 | 222 | Al |
| LB-CNH-90-15-C-XX | | | | | C | SF / NF | 66 | 260 | |
| LB-CNH-90-20-A | | | 20 | Linear | A | FBP100 | 127 | 331 | Al |
| LB-CNH-90-20-C-XX | | | | | C | SF / NF | 127 | 369 | |
| LB-CNH-90-25-A | | | 25 | Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-25-C-XX | | | | | C | SF / NF | - | - | |


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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-75-10-A | 10.0-15.0 | WR75 | 10 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-10-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-A | | | 15 | Linear | A | FBP120 | 55.6 | 177.7 | Al |
| LB-CNH-75-15-C-XX | | | | | C | SF / NF | 55.6 | 207.7 | |
| LB-CNH-75-20-A | | | 20 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-20-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-A | | | 25 | Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-25-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-10-A | 12.4-18.0 | WR62 | 10 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-10-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-15-A | | | 15 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-15-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-20-A | | | 20 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-20-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-25-A | | | 25 | Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-25-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-51-10-A | 15.0-22.0 | WR51 | 10 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-10-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-15-A | | | 15 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-15-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-20-A | | | 20 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-20-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-25-A | | | 25 | Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-25-C-XX | | | | | C | SF | - | - | |
| LB-CNH-42-10-A | 18.0-26.5 | WR42 | 10 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-10-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| LB-CNH-42-15-A | | | 15 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-15-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| LB-CNH-42-20-A | | | 20 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-20-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| LB-CNH-42-25-A | | | 25 | Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-25-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-34-10-A | 22.0-33.0 | WR34 | 10 | Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-10-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-15-A | | | 15 | Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-15-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-20-A | | | 20 | Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-20-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-25-A | | | 25 | Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-25-C-XX | | | | | C | 2.92mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-28-10-A | 26.5-40.0 | WR28 | 10 | Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-10-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-15-A | | | 15 | Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-15-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-20-A | | | 20 | Linear | A | FBP320 | 47.5 | 121.9 | Cu |
| LB-CNH-28-20-C-XX | | | | | C | KF / 2.4F | 47.5 | 145.9 | |
| LB-CNH-28-25-A | | | 25 | Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-25-C-XX | | | | | C | KF / 2.4F | - | - | |
| | | | | | | | | | |
| LB-CNH-22-10-A | 33.0-50.0 | WR22 | 10 | Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-10-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-15-A | | | 15 | Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-15-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-20-A | | | 20 | Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-20-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-25-A | | | 25 | Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-25-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-19-10-A | 40.0-60.0 | WR19 | 10 | Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-10-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-10-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-19-15-A | 40.0-60.0 | | 15 | Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-15-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-15-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-19-20-A | 40.0-60.0 | | 20 | Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-20-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-20-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | | | |
| LB-CNH-19-25-A | 40.0-60.0 | | 25 | Linear | A | FUGP500 | | | Cu |
| LB-CNH-19-25-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | | | |
| LB-CNH-19-25-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | | | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-15-10-A | 50.0-75.0 | WR15 | 10 | Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-10-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-15-A | 50.0-75.0 | | 15 | Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-15-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-20-A | 50.0-75.0 | | 20 | Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-20-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-25-A | 50.0-75.0 | | 25 | Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-25-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-12-10-A | 60.0-90.0 | WR12 | 10 | Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-15-A | | | 15 | Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-20-A | | | 20 | Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-25-A | | | 25 | Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-10-10-A | 75.0-110.0 | WR10 | 10 | Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-15-A | | | 15 | Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-20-A | | | 20 | Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-25-A | | | 25 | Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-8-10-A | 90.0-140.0 | WR8 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-10-A | 110.0-170.0 | WR6 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-10-A | 140.0-220.0 | WR5 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |

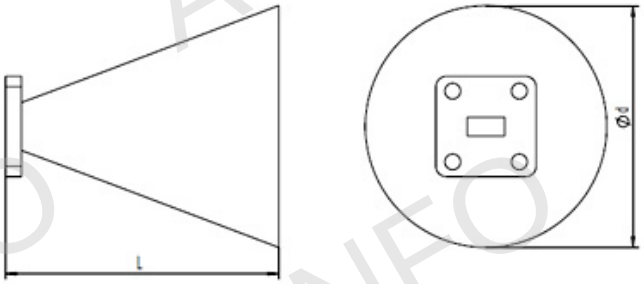


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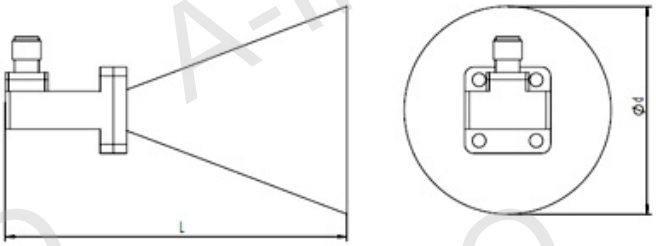
## 4. Conical Horn with Integrated Rectangular WG Transition - Linear Polarization



A Type, WG Output:




C Type, Coaxial Output:




| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) ϕd | Size (mm) L | Material |
|---|---|---|---|---|---|---|---|---|---|
| YLB-137-10-A | 5.85-8.20 | WR137 | 10 | Linear | A | FDP70 | - | - | Al |
| YLB-137-10-C-XX | | | | | C | NF / SF | - | - | |
| YLB-137-15-A | | | 15 | Linear | A | FDP70 | - | - | Al |
| YLB-137-15-C-XX | | | | | C | NF / SF | - | - | |
| YLB-137-20-A | | | 20 | Linear | A | FDP70 | - | - | Al |
| YLB-137-20-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| YLB-112-10-A | 7.05-10.0 | WR112 | 10 | Linear | A | FBP84 | - | - | Al |
| YLB-112-10-C-XX | | | | | C | NF / SF | - | - | |
| YLB-112-15-A | | | 15 | Linear | A | FBP84 | - | - | Al |
| YLB-112-15-C-XX | | | | | C | NF / SF | - | - | |
| YLB-112-20-A | | | 20 | Linear | A | FBP84 | - | - | Al |
| YLB-112-20-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| YLB-90-10-A | 8.20-12.4 | WR90 | 10 | Linear | A | FBP100 | - | - | Al |
| YLB-90-10-C-XX | | | | | C | SF / NF | - | - | |
| YLB-90-15-A | | | 15 | Linear | A | FBP100 | - | - | Al |
| YLB-90-15-C-XX | | | | | C | SF / NF | - | - | |
| YLB-90-20-A | | | 20 | Linear | A | FBP100 | - | - | Al |
| YLB-90-20-C-XX | | | | | C | SF / NF | - | - | |
| YLB-90-25-A | | | 25 | Linear | A | FBP100 | - | - | Al |
| YLB-90-25-C-XX | | | | | C | SF / NF | - | - | |


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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| YLB-75-10-A | 10.0-15.0 | WR75 | 10 | Linear | A | FBP120 | - | - | Al |
| YLB-75-10-C-XX | | | | | C | SF / NF | - | - | |
| YLB-75-15-A | | | 15 | Linear | A | FBP120 | - | - | Al |
| YLB-75-15-C-XX | | | | | C | SF / NF | - | - | |
| YLB-75-20-A | | | 20 | Linear | A | FBP120 | - | - | Al |
| YLB-75-20-C-XX | | | | | C | SF / NF | - | - | |
| YLB-75-25-A | | | 25 | Linear | A | FBP120 | - | - | Al |
| LB-75-25-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| YLB-62-10-A | 12.4-18.0 | WR62 | 10 | Linear | A | FBP140 | - | - | Al |
| YLB-62-10-C-XX | | | | | C | SF / NF | - | - | |
| YLB-62-15-A | | | 15 | Linear | A | FBP140 | - | - | Al |
| YLB-62-15-C-XX | | | | | C | SF / NF | - | - | |
| YLB-62-20-A | | | 20 | Linear | A | FBP140 | - | - | Al |
| YLB-62-20-C-XX | | | | | C | SF / NF | - | - | |
| YLB-62-25-A | | | 25 | Linear | A | FBP140 | - | - | Al |
| YLB-62-25-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| YLB-51-10-A | 15.0-22.0 | WR51 | 10 | Linear | A | FBP180 | - | - | Al |
| YLB-51-10-C-XX | | | | | C | SF | - | - | |
| YLB-51-15-A | | | 15 | Linear | A | FBP180 | - | - | Al |
| YLB-51-15-C-XX | | | | | C | SF | - | - | |
| YLB-51-20-A | | | 20 | Linear | A | FBP180 | - | - | Al |
| YLB-51-20-C-XX | | | | | C | SF | - | - | |
| YLB-51-25-A | | | 25 | Linear | A | FBP180 | - | - | Al |
| YLB-51-25-C-XX | | | | | C | SF | - | - | |
| | | | | | | | | | |
| YLB-42-10-A | 18.0-26.5 | WR42 | 10 | Linear | A | FBP220 | - | - | Al |
| YLB-42-10-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| YLB-42-15-A | | | 15 | Linear | A | FBP220 | - | - | Al |
| YLB-42-15-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| YLB-42-20-A | | | 20 | Linear | A | FBP220 | - | - | Al |
| YLB-42-20-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |
| YLB-42-25-A | | | 25 | Linear | A | FBP220 | - | - | Al |
| YLB-42-25-C-XX | | | | | C | SF / KF/ 3.5F | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| YLB-34-10-A | 22.0-33.0 | WR34 | 10 | Linear | A | FBP260 | - | - | Al |
| YLB-34-10-C-XX | | | | | C | 2.92mm-Female | - | - | |
| YLB-34-15-A | | | 15 | Linear | A | FBP260 | - | - | Al |
| YLB-34-15-C-XX | | | | | C | 2.92mm-Female | - | - | |
| YLB-34-20-A | | | 20 | Linear | A | FBP260 | - | - | Al |
| YLB-34-20-C-XX | | | | | C | 2.92mm-Female | - | - | |
| YLB-34-25-A | | | 25 | Linear | A | FBP260 | - | - | Al |
| YLB-34-25-C-XX | | | | | C | 2.92mm-Female | - | - | |
| | | | | | | | | | |
| YLB-28-10-A | 26.5-40.0 | WR28 | 10 | Linear | A | FBP320 | - | - | Cu |
| YLB-28-10-C-XX | | | | | C | KF / 2.4F | - | - | |
| YLB-28-15-A | | | 15 | Linear | A | FBP320 | - | - | Cu |
| YLB-28-15-C-XX | | | | | C | KF / 2.4F | - | - | |
| YLB-28-20-A | | | 20 | Linear | A | FBP320 | - | - | Cu |
| YLB-28-20-C-XX | | | | | C | KF / 2.4F | - | - | |
| YLB-28-25-A | | | 25 | Linear | A | FBP320 | - | - | Cu |
| YLB-28-25-C-XX | | | | | C | KF / 2.4F | - | - | |
| | | | | | | | | | |
| YLB-22-10-A | 33.0-50.0 | WR22 | 10 | Linear | A | FUGP400 | - | - | Cu |
| YLB-22-10-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| YLB-22-15-A | | | 15 | Linear | A | FUGP400 | - | - | Cu |
| YLB-22-15-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| YLB-22-20-A | | | 20 | Linear | A | FUGP400 | - | - | Cu |
| YLB-22-20-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| YLB-22-25-A | | | 25 | Linear | A | FUGP400 | - | - | Cu |
| YLB-22-25-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| | | | | | | | | | |
| YLB-19-10-A | 40.0-60.0 | WR19 | 10 | Linear | A | FUGP500 | - | - | Cu |
| YLB-19-10-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| YLB-19-10-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-19-15-A | 40.0-60.0 | | 15 | Linear | A | FUGP500 | - | - | Cu |
| YLB-19-15-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| YLB-19-15-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-19-20-A | 40.0-60.0 | | 20 | Linear | A | FUGP500 | - | - | Cu |
| YLB-19-20-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| YLB-19-20-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-19-25-A | 40.0-60.0 | | 25 | Linear | A | FUGP500 | - | - | Cu |
| YLB-19-25-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| YLB-19-25-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| YLB-15-10-A | 50.0-75.0 | WR15 | 10 | Linear | A | FUGP620 | - | - | Cu |
| YLB-15-10-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-15-15-A | 50.0-75.0 | | 15 | Linear | A | FUGP620 | - | - | Cu |
| YLB-15-15-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-15-20-A | 50.0-75.0 | | 20 | Linear | A | FUGP620 | - | - | Cu |
| YLB-15-20-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-15-25-A | 50.0-75.0 | | 25 | Linear | A | FUGP620 | - | - | Cu |
| YLB-15-25-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| YLB-12-10-A | 60.0-90.0 | WR12 | 10 | Linear | A | FUGP740 | - | - | Cu |
| YLB-12-15-A | | | 15 | Linear | A | FUGP740 | - | - | Cu |
| YLB-12-20-A | | | 20 | Linear | A | FUGP740 | - | - | Cu |
| YLB-12-25-A | | | 25 | Linear | A | FUGP740 | - | - | Cu |
| YLB-10-10-A | 75.0-110.0 | WR10 | 10 | Linear | A | FUGP900 | - | - | Cu |
| YLB-10-15-A | | | 15 | Linear | A | FUGP900 | - | - | Cu |
| YLB-10-20-A | | | 20 | Linear | A | FUGP900 | - | - | Cu |
| YLB-10-25-A | | | 25 | Linear | A | FUGP900 | - | - | Cu |
| YLB-8-10-A | 90.0-140.0 | WR8 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-8-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-8-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-8-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-6-10-A | 110.0-170.0 | WR6 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-6-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-6-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-6-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-5-10-A | 140.0-220.0 | WR5 | 10 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-5-15-A | | | 15 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-5-20-A | | | 20 | Linear | A | UG387/U-M | - | - | Cu |
| YLB-5-25-A | | | 25 | Linear | A | UG387/U-M | - | - | Cu |

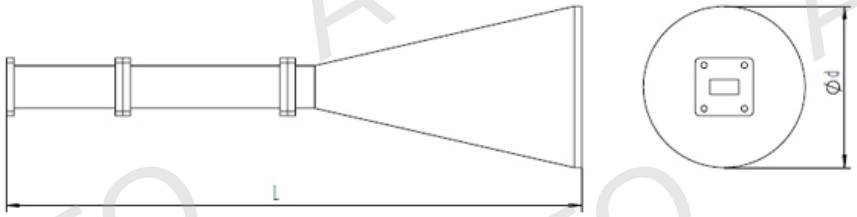


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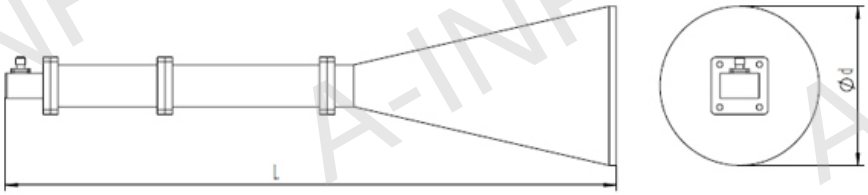
## 5. Conical Horn with Polarizer and Rectangular WG Transition - Circular Polarization

A Type, WG Output:






C Type, Coaxial Output:




| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-75-10-R16-A | 11.0-14.0 | WR75 | 10 | RHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-10-R16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-10-L16-A | | | 10 | LHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-10-L16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-R16-A | | | 15 | RHCP | A | FBP120 | 55.6 | 285.7 | Al |
| LB-CNH-75-15-R16-C-XX | | | | | C | SF / NF | 55.6 | 315.7 | |
| LB-CNH-75-15-L16-A | | | 15 | LHCP | A | FBP120 | 55.6 | 285.7 | Al |
| LB-CNH-75-15-L16-C-XX | | | | | C | SF / NF | 55.6 | 315.7 | |
| LB-CNH-75-20-R16-A | | | 20 | RHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-20-R16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-20-L16-A | | | 20 | LHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-20-L16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-R16-A | | | 25 | RHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-25-R16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-L16-A | | | 25 | LHCP | A | FBP120 | - | - | Al |
| LB-CNH-75-25-L16-C-XX | | | | | C | SF / NF | - | - | |


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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-22-10-R16a-A | 36.0-43.0 | WR22 | 10 | RHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-10-R16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-10-L16a-A | | | 10 | LHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-10-L16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-15-R16a-A | | | 15 | RHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-15-R16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-15-L16a-A | | | 15 | LHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-15-L16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-20-R16a-A | | | 20 | RHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-20-R16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-20-L16a-A | | | 20 | LHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-20-L16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-25-R16a-A | | | 25 | RHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-25-R16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-25-L16a-A | | | 25 | LHCP | A | FUGP400 | - | - | Cu |
| LB-CNH-22-25-L16a-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-10-10-R06a-A | 75.0-86.0 | WR10 | 10 | RHCP | A | FUGP900 | - | - | Cu |
| LB-CNH-10-10-L06a-A | | | | LHCP | A | FUGP900 | - | - | |
| LB-CNH-10-15-R06a-A | | | 15 | RHCP | A | FUGP900 | - | - | Cu |
| LB-CNH-10-15-L06a-A | | | | LHCP | A | FUGP900 | - | - | |
| LB-CNH-10-20-R06a-A | | | 20 | RHCP | A | FUGP900 | 19.1 | 76.3 | Cu |
| LB-CNH-10-20-L06a-A | | | | LHCP | A | FUGP900 | 19.1 | 76.3 | |
| LB-CNH-10-25-R06a-A | | | 25 | RHCP | A | FUGP900 | - | - | Cu |
| LB-CNH-10-25-L06a-A | | | | LHCP | A | FUGP900 | - | - | |

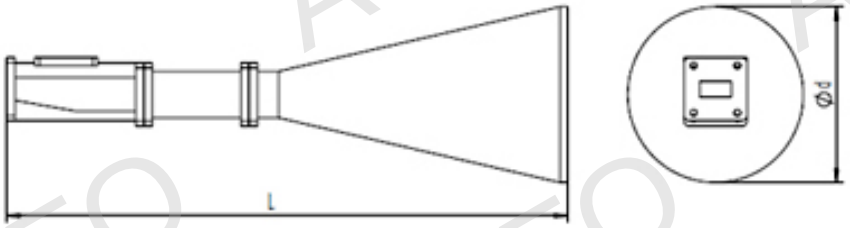


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## 6. Conical Horn with Ortho-Mode Transducer (OMT) - Dual Linear Polarization

A Type, WG Output:






C Type, Coaxial Output:




| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-137-10-T02-A | 5.85-8.20 | WR137 | 10 | Dual Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-10-T02-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-137-15-T02-A | | | 15 | Dual Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-15-T02-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-137-20-T02-A | | | 20 | Dual Linear | A | FDP70 | - | - | Al |
| LB-CNH-137-20-T02-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| LB-CNH-112-10-T02-A | 7.05-10.0 | WR112 | 10 | Dual Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-10-T02-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-112-15-T02-A | | | 15 | Dual Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-15-T02-C-XX | | | | | C | NF / SF | - | - | |
| LB-CNH-112-20-T02-A | | | 20 | Dual Linear | A | FBP84 | - | - | Al |
| LB-CNH-112-20-T02-C-XX | | | | | C | NF / SF | - | - | |
| | | | | | | | | | |
| LB-CNH-90-10-T02-A | 8.20-12.4 | WR90 | 10 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-10-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-15-T02-A | | | 15 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-15-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-20-T02-A | | | 20 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-20-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-25-T02-A | | | 25 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-25-T02-C-XX | | | | | C | SF / NF | - | - | |


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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-90-10-T06-A | 8.20-10.8 | WR90 | 10 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-10-T06-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-15-T06-A | | | 15 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-15-T06-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-20-T06-A | | | 20 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-20-T06-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-25-T06-A | | | 25 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-25-T06-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-90-10-T16-A | 8.90-11.7 | WR90 | 10 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-10-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-15-T16-A | | | 15 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-15-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-20-T16-A | | | 20 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-20-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-25-T16-A | | | 25 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-25-T16-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-90-10-T26-A | 9.30-12.4 | WR90 | 10 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-10-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-15-T26-A | | | 15 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-15-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-20-T26-A | | | 20 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-20-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-90-25-T26-A | | | 25 | Dual Linear | A | FBP100 | - | - | Al |
| LB-CNH-90-25-T26-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-75-10-T02-A | 10.0-15.0 | WR75 | 10 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-10-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-T02-A | | | 15 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-15-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-20-T02-A | | | 20 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-20-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-T02-A | | | 25 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-25-T02-C-XX | | | | | C | SF / NF | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-75-10-T06-A | 10.0-13.0 | WR75 | 10 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-10-T06-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-T06-A | | | 15 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-15-T06-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-20-T06-A | | | 20 | Dual Linear | A | FBP120 | 106 | 339 | Al |
| LB-CNH-75-20-T06-C-XX | | | | | C | SF / NF | 106 | 369 | |
| LB-CNH-75-25-T06-A | | | 25 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-25-T06-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-75-10-T16-A | 11.0-14.0 | WR75 | 10 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-10-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-T16-A | | | 15 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-15-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-20-T16-A | | | 20 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-20-T16-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-T16-A | | | 25 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-25-T16-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-75-10-T26-A | 12.0-15.0 | WR75 | 10 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-10-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-15-T26-A | | | 15 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-15-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-20-T26-A | | | 20 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-20-T26-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-75-25-T26-A | | | 25 | Dual Linear | A | FBP120 | - | - | Al |
| LB-CNH-75-25-T26-C-XX | | | | | C | SF / NF | - | - | |
| | | | | | | | | | |
| LB-CNH-62-10-T02-A | 12.4-18.0 | WR62 | 10 | Dual Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-10-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-15-T02-A | | | 15 | Dual Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-15-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-20-T02-A | | | 20 | Dual Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-20-T02-C-XX | | | | | C | SF / NF | - | - | |
| LB-CNH-62-25-T02-A | | | 25 | Dual Linear | A | FBP140 | - | - | Al |
| LB-CNH-62-25-T02-C-XX | | | | | C | SF / NF | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-51-10-T02-A | 15.0-22.0 | WR51 | 10 | Dual Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-10-T02-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-15-T02-A | | | 15 | Dual Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-15-T02-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-20-T02-A | | | 20 | Dual Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-20-T02-C-XX | | | | | C | SF | - | - | |
| LB-CNH-51-25-T02-A | | | 25 | Dual Linear | A | FBP180 | - | - | Al |
| LB-CNH-51-25-T02-C-XX | | | | | C | SF | - | - | |
| | | | | | | | | | |
| LB-CNH-42-10-T02-A | 18.0-26.5 | WR42 | 10 | Dual Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-10-T02-C-XX | | | | | C | SF/KF/3.5F | - | - | |
| LB-CNH-42-15-T02-A | | | 15 | Dual Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-15-T02-C-XX | | | | | C | SF/KF/3.5F | - | - | |
| LB-CNH-42-20-T02-A | | | 20 | Dual Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-20-T02-C-XX | | | | | C | SF/KF/3.5F | - | - | |
| LB-CNH-42-25-T02-A | | | 25 | Dual Linear | A | FBP220 | - | - | Al |
| LB-CNH-42-25-T02-C-XX | | | | | C | SF/KF/3.5F | - | - | |
| | | | | | | | | | |
| LB-CNH-34-10-T02-A | 22.0-33.0 | WR34 | 10 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-10-T02-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-15-T02-A | | | 15 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-15-T02-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-20-T02-A | | | 20 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-20-T02-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-25-T02-A | | | 25 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-25-T02-C-XX | | | | | C | 2.92mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-34-10-T06-A | 22.0-29.0 | WR34 | 10 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-10-T06-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-15-T06-A | | | 15 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-15-T06-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-20-T06-A | | | 20 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-20-T06-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-25-T06-A | | | 25 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-25-T06-C-XX | | | | | C | 2.92mm-Female | - | - | |



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| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-34-10-T16-A | 23.8-31.2 | WR34 | 10 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-10-T16-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-15-T16-A | | | 15 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-15-T16-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-20-T16-A | | | 20 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-20-T16-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-25-T16-A | | | 25 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-25-T16-C-XX | | | | | C | 2.92mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-34-10-T26-A | 25.0-33.0 | WR34 | 10 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-10-T26-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-15-T26-A | | | 15 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-15-T26-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-20-T26-A | | | 20 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-20-T26-C-XX | | | | | C | 2.92mm-Female | - | - | |
| LB-CNH-34-25-T26-A | | | 25 | Dual Linear | A | FBP260 | - | - | Al |
| LB-CNH-34-25-T26-C-XX | | | | | C | 2.92mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-28-10-T02-A | 26.5-40.0 | WR28 | 10 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-10-T02-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-15-T02-A | | | 15 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-15-T02-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-20-T02-A | | | 20 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-20-T02-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-25-T02-A | | | 25 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-25-T02-C-XX | | | | | C | KF / 2.4F | - | - | |
| | | | | | | | | | |
| LB-CNH-28-10-T06-A | 30.0-40.0 | WR28 | 10 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-10-T06-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-15-T06-A | | | 15 | Dual Linear | A | FBP320 | 23 | 106.75 | Cu |
| LB-CNH-28-15-T06-C-XX | | | | | C | KF / 2.4F | 23 | 130.8 | |
| LB-CNH-28-20-T06-A | | | 20 | Dual Linear | A | FBP320 | 47.5 | 140.85 | Cu |
| LB-CNH-28-20-T06-C-XX | | | | | C | KF / 2.4F | 47.5 | 164.9 | |
| LB-CNH-28-25-T06-A | | | 25 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-25-T06-C-XX | | | | | C | KF / 2.4F | - | - | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) ϕd | Size (mm) L | Material |
|---|---|---|---|---|---|---|---|---|---|
| LB-CNH-28-10-T16-A | 28.5-38.0 | WR28 | 10 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-10-T16-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-15-T16-A | | | 15 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-15-T16-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-20-T16-A | | | 20 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-20-T16-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-25-T16-A | | | 25 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-25-T16-C-XX | | | | | C | KF / 2.4F | - | - | |
| | | | | | | | | | |
| LB-CNH-28-10-T26-A | 26.0-35.0 | WR28 | 10 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-10-T26-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-15-T26-A | | | 15 | Dual Linear | A | FBP320 | 23 | 108.75 | Cu |
| LB-CNH-28-15-T26-C-XX | | | | | C | KF / 2.4F | 23 | 132.8 | |
| LB-CNH-28-20-T26-A | | | 20 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-20-T26-C-XX | | | | | C | KF / 2.4F | - | - | |
| LB-CNH-28-25-T26-A | | | 25 | Dual Linear | A | FBP320 | - | - | Cu |
| LB-CNH-28-25-T26-C-XX | | | | | C | KF / 2.4F | - | - | |
| | | | | | | | | | |
| LB-CNH-28-20-T68-A | 24.0-50.0 | WR28 | 20 | Dual Linear | A | FBP320 | 47.5 | 199.37 | Cu |
| LB-CNH-28-20-T68-C-2.4F | | | | | C | 2.4mm-Female | 47.5 | 222.99 | |
| | | | | | | | | | |
| LB-CNH-22-10-T02-A | 33.0-50.0 | WR22 | 10 | Dual Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-10-T02-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-15-T02-A | | | 15 | Dual Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-15-T02-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-20-T02-A | | | 20 | Dual Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-20-T02-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-22-25-T02-A | | | 25 | Dual Linear | A | FUGP400 | - | - | Cu |
| LB-CNH-22-25-T02-C-2.4F | | | | | C | 2.4mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-19-10-T02-A | 40.0-60.0 | WR19 | 10 | Dual Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-10-T02-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-10-T02-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-19-15-T02-A | 40.0-60.0 | | 15 | Dual Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-15-T02-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-15-T02-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | Waveguide | Gain (dB) | Pol. | Figure | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ϕd | L | |
| LB-CNH-19-20-T02-A | 40.0-60.0 | | 20 | Dual Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-20-T02-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-20-T02-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-19-25-T02-A | 40.0-60.0 | | 25 | Dual Linear | A | FUGP500 | - | - | Cu |
| LB-CNH-19-25-T02-C-2.4F | 40.0-50.0 | | | | C | 2.4mm-Female | - | - | |
| LB-CNH-19-25-T02-C-1.85F | 40.0-60.0 | | | | C | 1.85mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-15-10-T02-A | 50.0-75.0 | WR15 | 10 | Dual Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-10-T02-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-15-T02-A | 50.0-75.0 | | 15 | Dual Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-15-T02-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-20-T02-A | 50.0-75.0 | | 20 | Dual Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-20-T02-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| LB-CNH-15-25-T02-A | 50.0-75.0 | | 25 | Dual Linear | A | FUGP620 | - | - | Cu |
| LB-CNH-15-25-T02-C-1.85F | 50.0-65.0 | | | | C | 1.85mm-Female | - | - | |
| | | | | | | | | | |
| LB-CNH-12-10-T02-A | 60.0-90.0 | WR12 | 10 | Dual Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-15-T02-A | | | 15 | Dual Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-20-T02-A | | | 20 | Dual Linear | A | FUGP740 | - | - | Cu |
| LB-CNH-12-25-T02-A | | | 25 | Dual Linear | A | FUGP740 | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-10-10-T02-A | 75.0-110.0 | WR10 | 10 | Dual Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-15-T02-A | | | 15 | Dual Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-20-T02-A | | | 20 | Dual Linear | A | FUGP900 | - | - | Cu |
| LB-CNH-10-25-T02-A | | | 25 | Dual Linear | A | FUGP900 | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-8-10-T02-A | 90.0-140.0 | WR8 | 10 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-15-T02-A | | | 15 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-20-T02-A | | | 20 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-8-25-T02-A | | | 25 | Dual Linear | A | UG387/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-6-10-T02-A | 110.0-170.0 | WR6 | 10 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-15-T02-A | | | 15 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-20-T02-A | | | 20 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-6-25-T02-A | | | 25 | Dual Linear | A | UG387/U-M | - | - | Cu |
| | | | | | | | | | |
| LB-CNH-5-10-T02-A | 140.0-220.0 | WR5 | 10 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-15-T02-A | | | 15 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-20-T02-A | | | 20 | Dual Linear | A | UG387/U-M | - | - | Cu |
| LB-CNH-5-25-T02-A | | | 25 | Dual Linear | A | UG387/U-M | - | - | Cu |



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# Conical Horn Antenna 8.2~12.4GHz

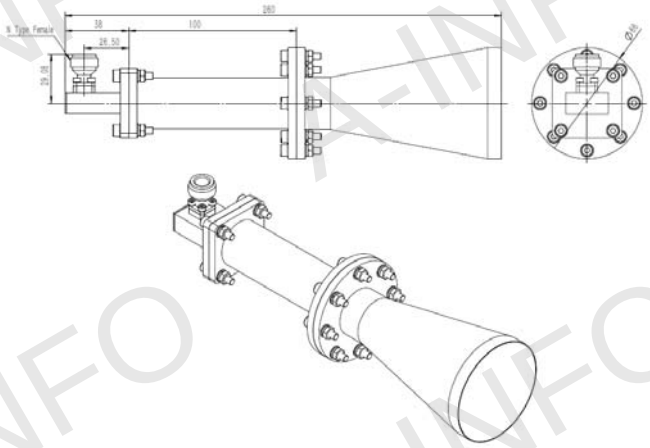
**P/N: LB-CNH-90-15**



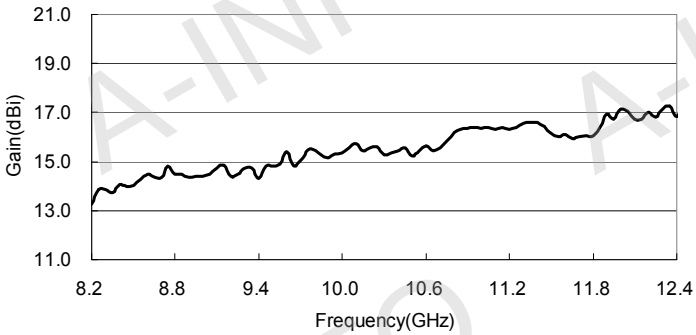
## Technical Specification

| | | |
|---|---|---|
| Frequency Range(GHz) | 8.2-12.4 | |
| Waveguide | WR90 | |
| Gain (dBi) | 15 Typ. | |
| 3dB Beamwidth(deg) | E Plane: | 30 Typ. |
| | H Plane: | 25 Typ. |
| Polarization | Linear | |
| Cross Pol. Isolation(dB) | -40 Typ. | |
| VSWR | A Type: | 1.5 Max. |
| | C Type: | 1.5 Max. |
| Material | Al | |
| Output | A Type: | FBP100(UBR100) |
| | C Type: | N-F or SMA-F |
| Size(mm) | A Type: | Φ66 x 222 |
| | C Type: | Φ66 x 260 |
| Net Weight(Kg) | A Type: | 0.55 Around |
| | C Type: | 0.60 Around |

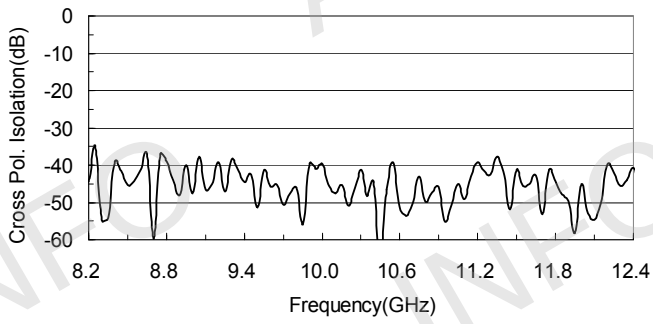
## Outline Drawing(Size: mm)



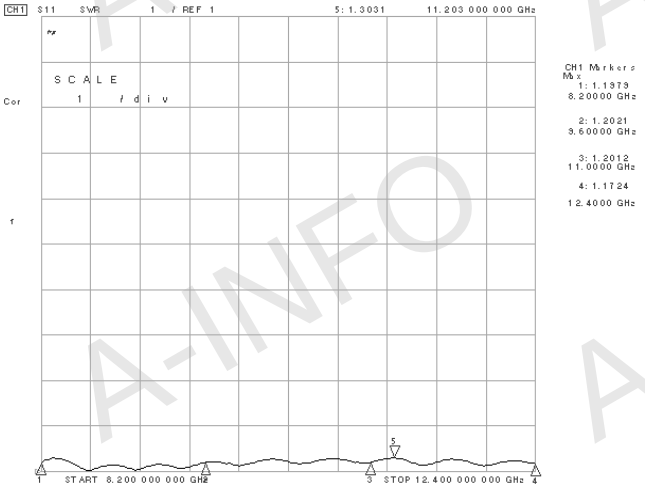
## Gain




## Cross Polarization Isolation




## VSWR





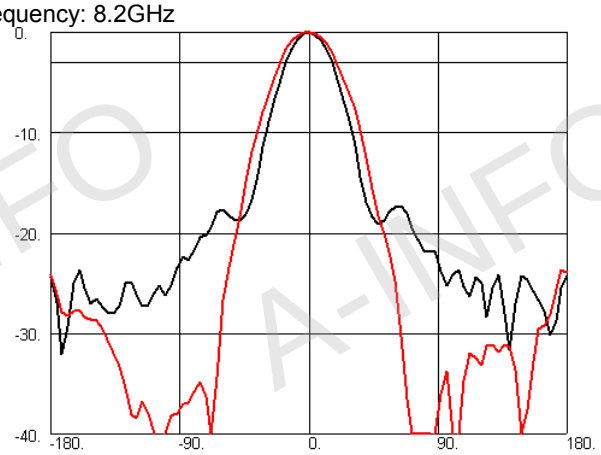

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# Conical Horn Antenna 8.2~12.4GHz(continued)

**P/N: LB-CNH-90-15**

**Pattern**

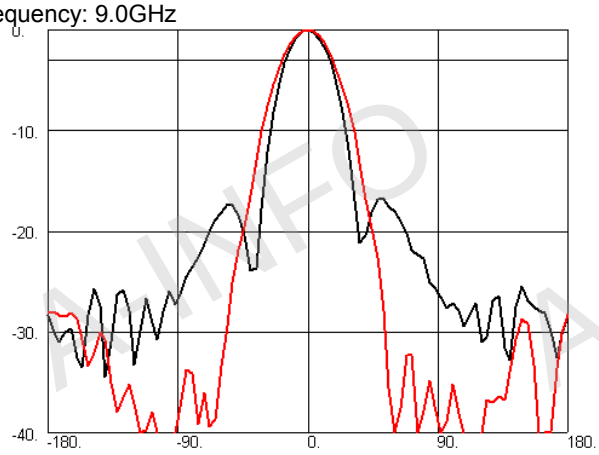
Frequency: 8.2GHz




H-Plane ——
3dB Beamwidth (deg): 39.44

E-Plane ——
3dB Beamwidth (deg): 31.81

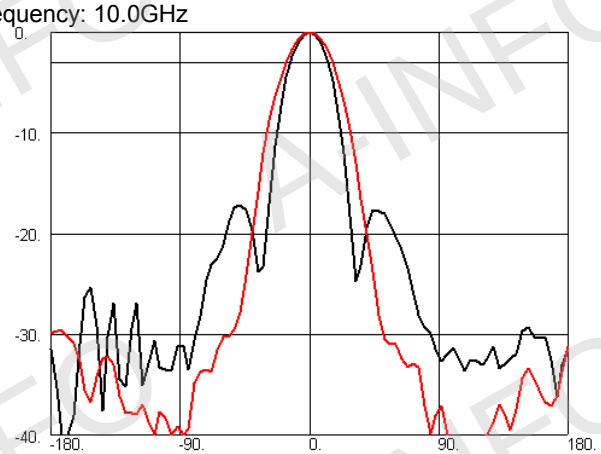
Frequency: 9.0GHz




H-Plane ——
3dB Beamwidth (deg): 34.83

E-Plane ——
3dB Beamwidth (deg): 30.23

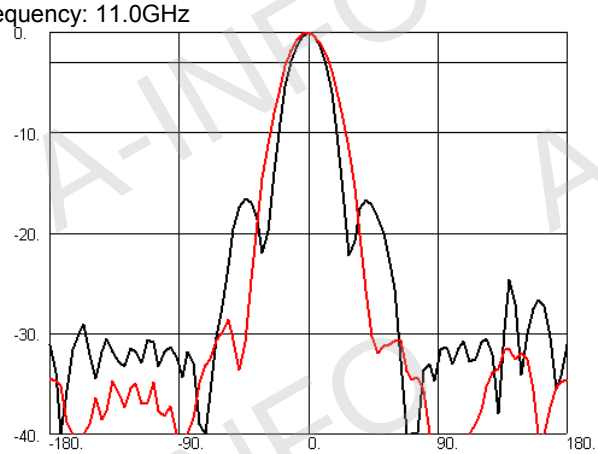
Frequency: 10.0GHz




H-Plane ——
3dB Beamwidth (deg): 32.13

E-Plane ——
3dB Beamwidth (deg): 25.74

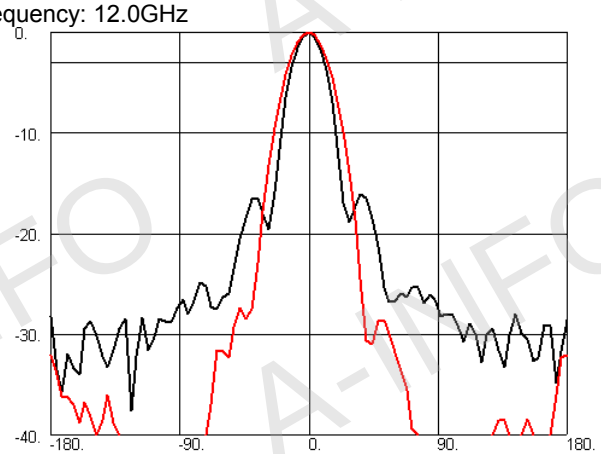
Frequency: 11.0GHz




H-Plane ——
3dB Beamwidth (deg): 28.84

E-Plane ——
3dB Beamwidth (deg): 23.58

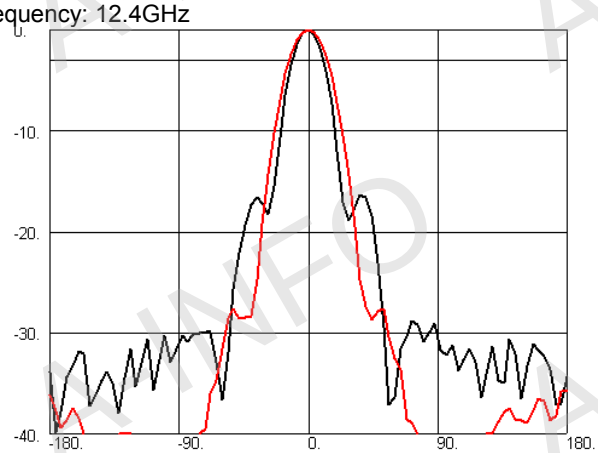
Frequency: 12.0GHz




H-Plane ——
3dB Beamwidth (deg): 26.25

E-Plane ——
3dB Beamwidth (deg): 21.40

Frequency: 12.4GHz




H-Plane ——
3dB Beamwidth (deg): 26.17

E-Plane ——
3dB Beamwidth (deg): 21.17



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# Conical Horn Antenna 30.0~40.0GHz

**P/N: LB-CNH-28-20-T06**

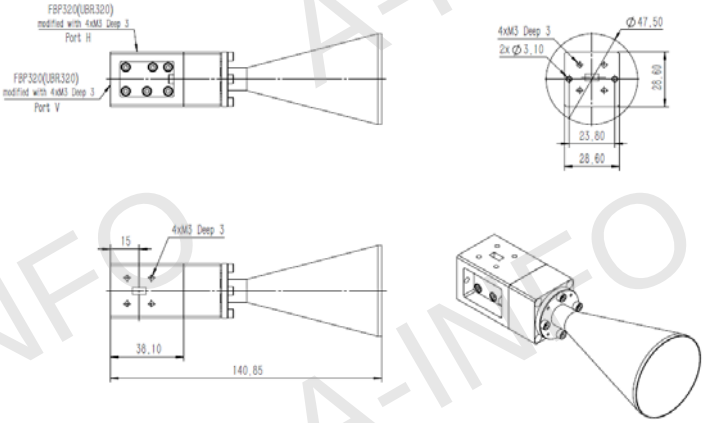


## Technical Specification

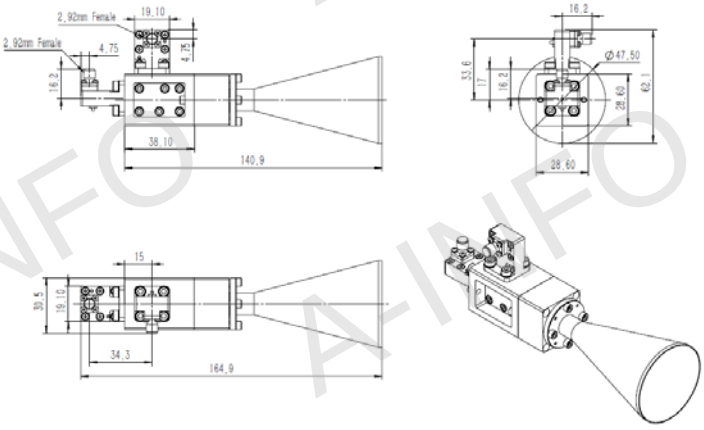
| | | |
|---|---|---|
| **Frequency Range(GHz)** | | 30.0-40.0 |
| **Waveguide** | | WR28 |
| **Gain (dBi)** | | 20 Typ. |
| **Polarization** | | Dual Linear |
| **3dB Beamwidth(deg)** | E Plane: | 12 Typ. |
| | H Plane: | 14 Typ. |
| **Cross Pol. Isolation(dB)** | | -30 Typ. |
| **Port to Port Isolation(dB)** | | 30 Min. |
| **VSWR** | | 2.0 Typ. |
| **Output** | A Type: | FBP320(UBR320) (Modified with 4xM3 Deep 3) |
| | C Type: | 2.92mm-Female or 2.4mm-Female |
| **Material** | | Cu |
| **Size(mm)** | A Type: | Φ47.5 x 140.85 |
| | C Type: | Φ62.1 x 164.9 |
| **Net Weight(Kg)** | A Type: | 0. 36 Around |
| | C Type: | 0.44 Around |

## Outline Drawing(Size: mm)

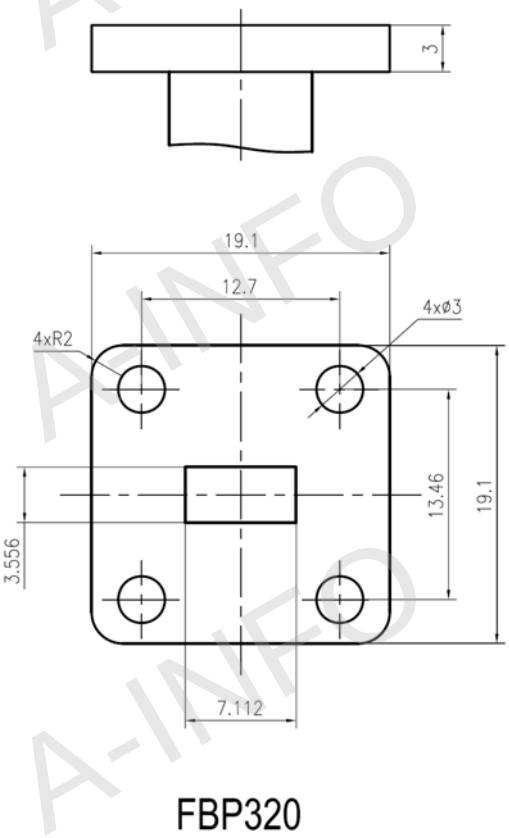
A Type(With FBP320 Output)




C Type (With 2.92mm-Female Output)




## Flange Drawing (Size: mm)



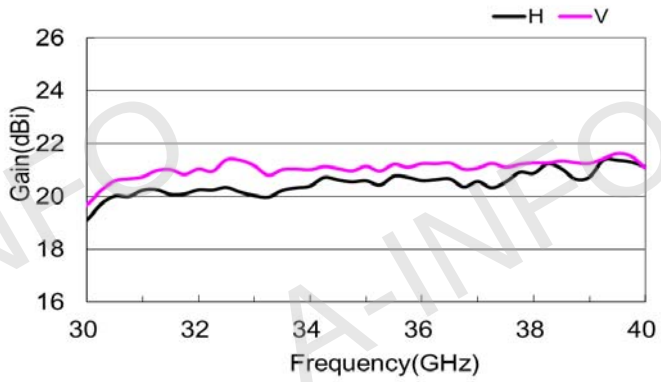



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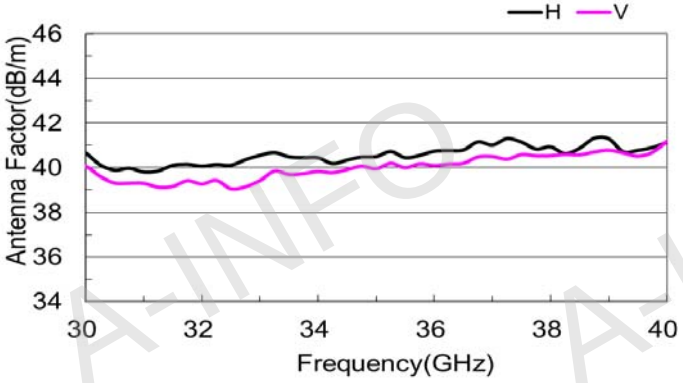
## *Conical Horn Antenna 30.0~40.0GHz(continued)*

**P/N: LB-CNH-28-20-T06**

### Gain

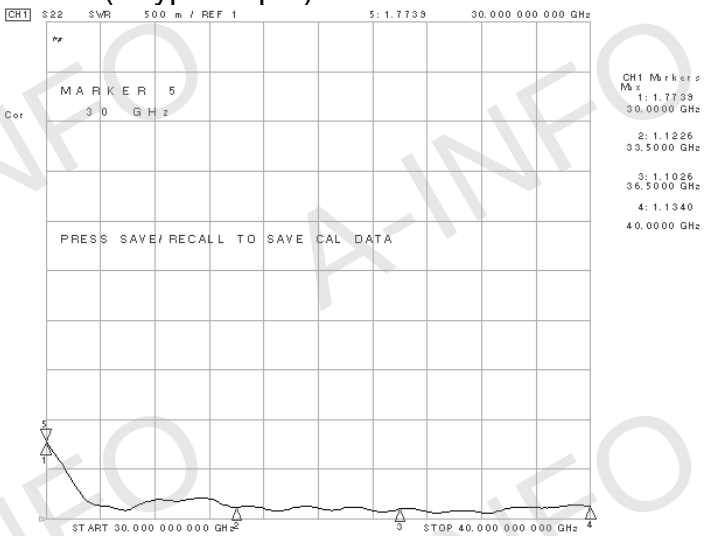



### Antenna Factor



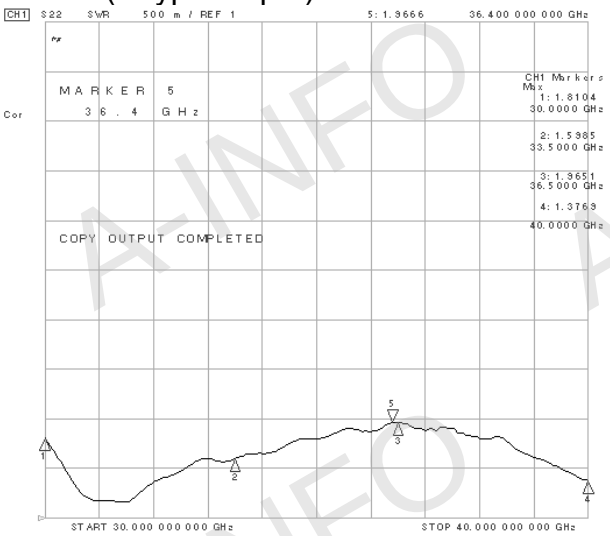

### VSWR

Port-V (A type output)

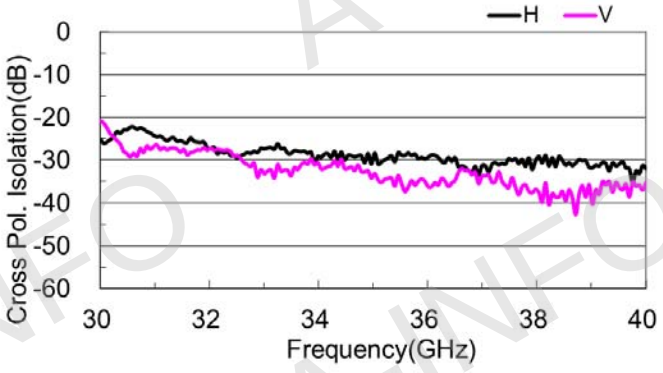



### VSWR

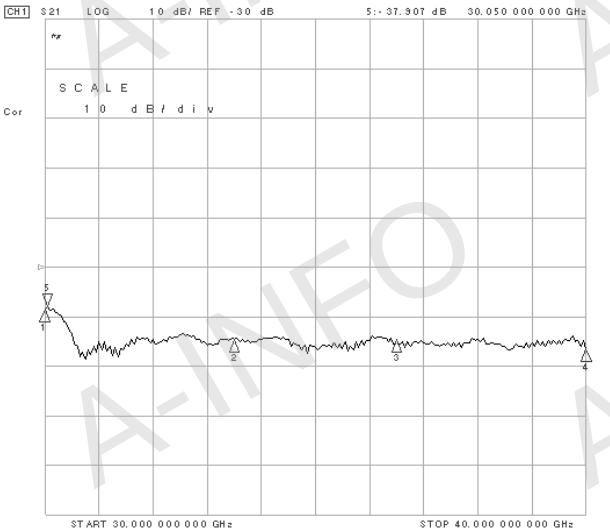
Port-H (A type output)




### Cross Polarization Isolation




### Port to Port Isolation



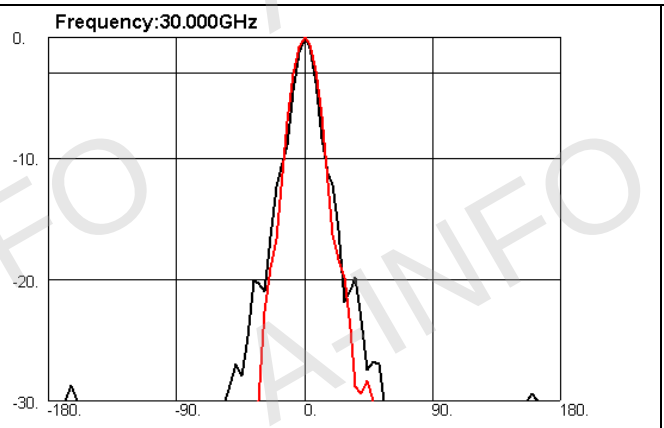



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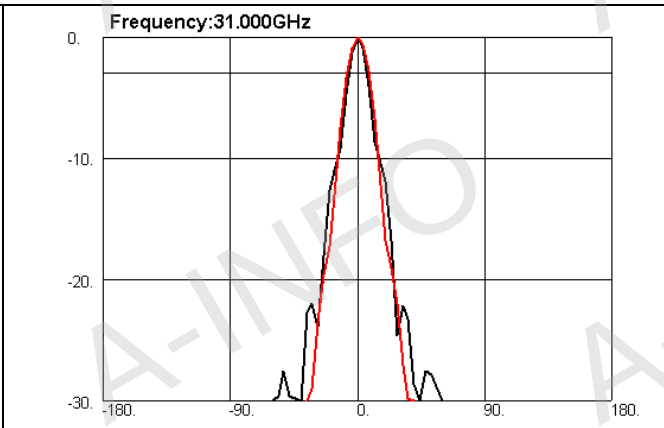
## Conical Horn Antenna 30.0~40.0GHz(continued)

**P/N: LB-CNH-28-20-T06**

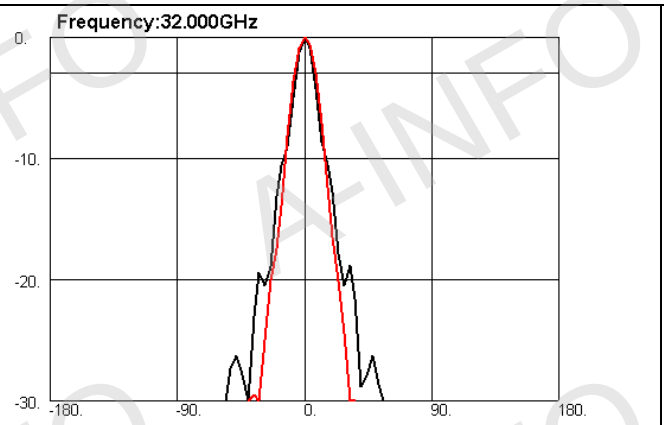
**Pattern**



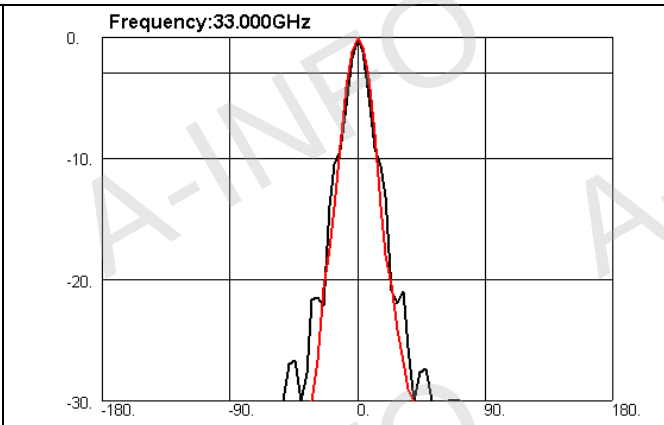

3dB Beamwidth(deg):16.07 3dB Beamwidth(deg):13.02



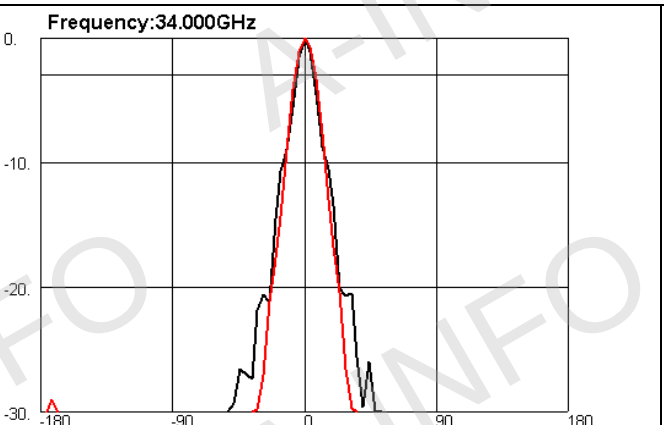

3dB Beamwidth(deg):15.62 3dB Beamwidth(deg):12.59



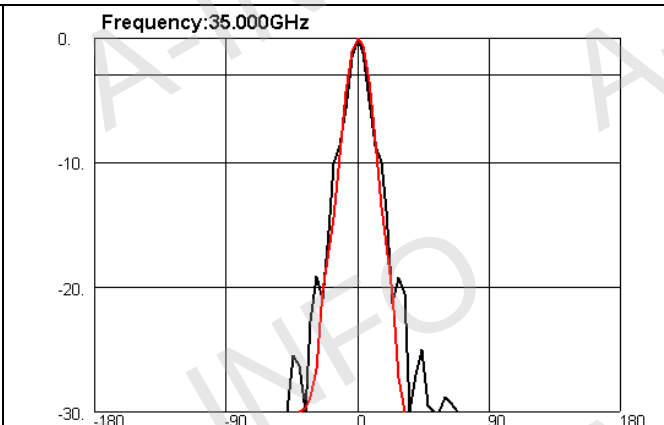

3dB Beamwidth(deg):14.96 3dB Beamwidth(deg):12.34




3dB Beamwidth(deg):13.85 3dB Beamwidth(deg):11.21




3dB Beamwidth(deg):14.06 3dB Beamwidth(deg):11.58




3dB Beamwidth(deg):13.60 3dB Beamwidth(deg):11.23

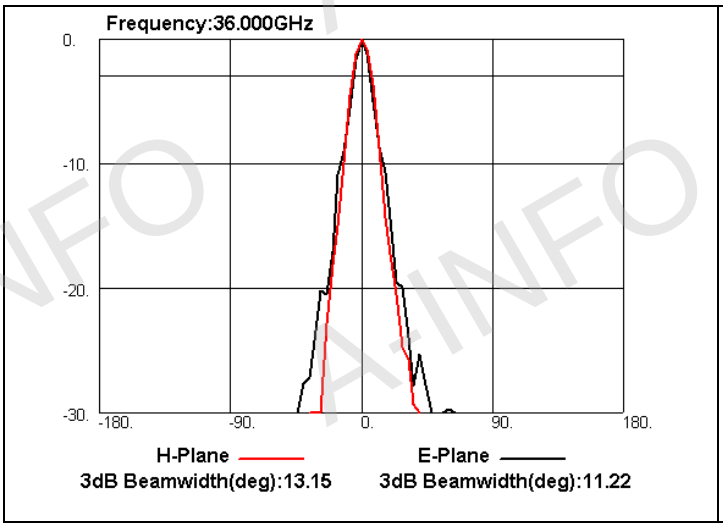


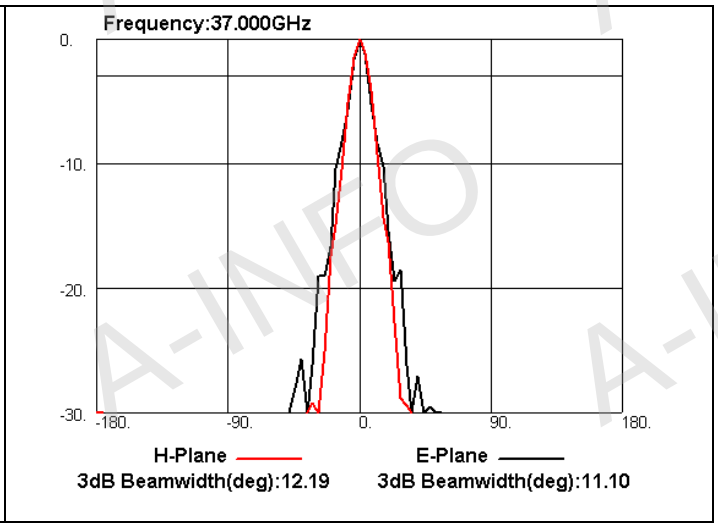
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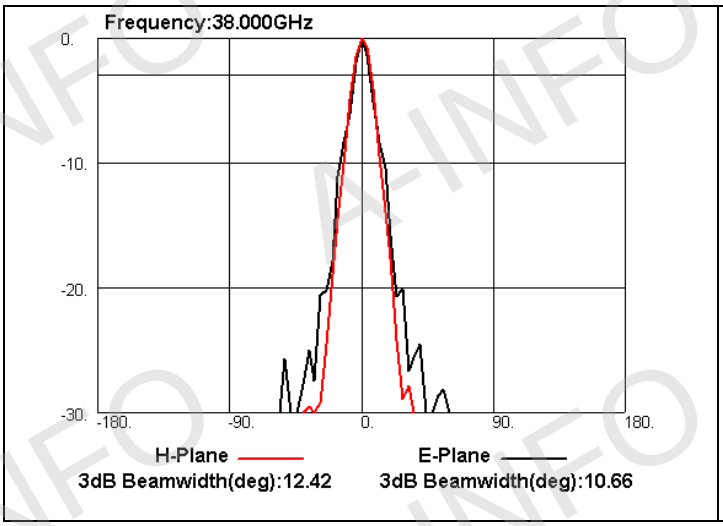
## *Conical Horn Antenna 30.0~40.0GHz(continued)*

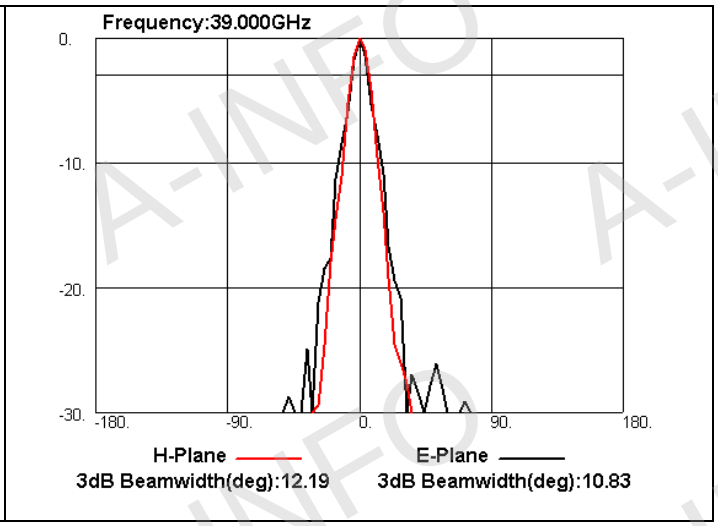
**P/N: LB-CNH-28-20-T06**

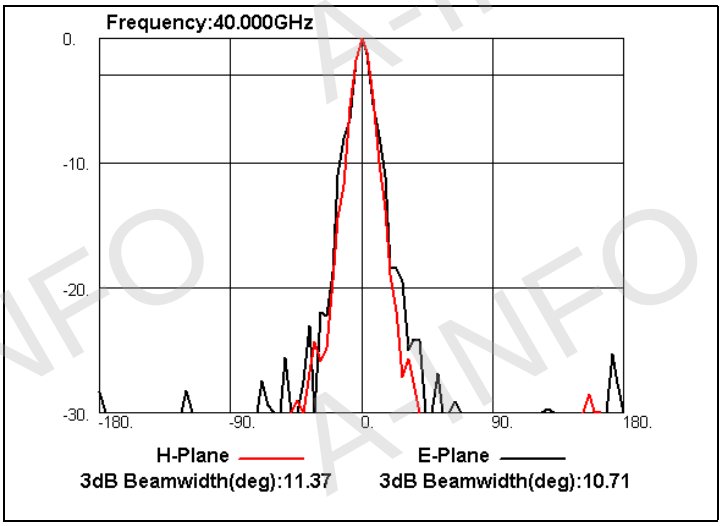
**Pattern**





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# Corrugated Conical Horn Antenna



Model Information

| Example Part Number: | LB-CH | -90 | -15 | -C | -SF |
|---|---|---|---|---|---|
| Product Code | | | | | |
| Waveguide Size: WR90 - WR10 | | | | | |
| Gain in dB, Standard gain is 10dB, 15dB, 20dB, 25dB | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female;<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | |

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna –Corrugated Conical Horn Antenna and download.*

| Model | Freq. (GHz) | WG | Pol. | Gain (dB) Typ. | Figure | VSWR Typ. | Output | Size(mm) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Length | Aperture Diameter |
| LB-CH-90-15-A | 8.2-12.4 | WR90 | Linear | 15 | A | 1.15 | FBP100 | 228 | 90 |
| LB-CH-90-15-C-XX | | | | | C | 1.5 | SF/NF | 266 | 90 |
| LB-CH-90-20-A | | | | 20 | A | 1.15 | FBP100 | 335 | 150 |
| LB-CH-90-20-C-XX | | | | | C | 1.5 | SF/NF | 373 | 150 |
| LB-CH-90-25-A | | | | 25 | A | 1.15 | FBP100 | - | - |
| LB-CH-90-25-C-XX | | | | | C | 1.5 | SF/NF | - | - |
| | | | | | | | | | |
| LB-CH-75-15-A | 10.0-15.0 | WR75 | Linear | 15 | A | 1.15 | FBP120 | 145.3 | 81.34 |
| LB-CH-75-15-C-XX | | | | | C | 1.5 | SF/NF | 175.3 | 81.34 |
| LB-CH-75-20-A | | | | 20 | A | 1.15 | FBP120 | 251.4 | 136.44 |
| LB-CH-75-20-C-XX | | | | | C | 1.5 | SF/NF | 281.4 | 136.44 |
| LB-CH-75-25-A | | | | 25 | A | 1.15 | FBP120 | - | - |
| LB-CH-75-25-C-XX | | | | | C | 1.5 | SF/NF | - | - |
| | | | | | | | | | |
| LB-CH-62-15-A | 12.4-18.0 | WR62 | Linear | 15 | A | 1.15 | FBP140 | - | - |
| LB-CH-62-15-C-XX | | | | | C | 1.5 | SF/NF | - | - |
| LB-CH-62-20-A | | | | 20 | A | 1.15 | FBP140 | - | - |
| LB-CH-62-20-C-XX | | | | | C | 1.5 | SF/NF | - | - |
| LB-CH-62-25-A | | | | 25 | A | 1.15 | FBP140 | - | - |
| LB-CH-62-25-C-XX | | | | | C | 1.5 | SF/NF | - | - |



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Website: www.ainfoinc.com
Email: sales@ainfoinc.com

| Model | Freq. (GHz) | WG | Pol. | Gain (dB) Typ. | Figure | VSWR Typ. | Output | Size(mm) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Length | Aperture Diameter |
| LB-CH-51-15-A | 15.0-22.0 | WR51 | Linear | 15 | A | 1.2 | FBP180 | - | - |
| LB-CH-51-15-C-XX | | | | | C | 1.5 | SF | - | - |
| LB-CH-51-20-A | | | | 20 | A | 1.2 | FBP180 | - | - |
| LB-CH-51-20-C-XX | | | | | C | 1.5 | SF | - | - |
| LB-CH-51-25-A | | | | 25 | A | 1.2 | FBP180 | - | - |
| LB-CH-51-25-C-XX | | | | | C | 1.5 | SF | - | - |
| | | | | | | | | | |
| LB-CH-42-15-A | 18.0-26.5 | WR42 | Linear | 15 | A | 1.2 | FBP220 | - | - |
| LB-CH-42-15-C-XX | | | | | C | 1.5 | SF/KF/3.5F | - | - |
| LB-CH-42-20-A | | | | 20 | A | 1.2 | FBP220 | - | - |
| LB-CH-42-20-C-XX | | | | | C | 1.5 | SF/KF/3.5F | - | - |
| LB-CH-42-25-A | | | | 25 | A | 1.2 | FBP220 | - | - |
| LB-CH-42-25-C-XX | | | | | C | 1.5 | SF/KF/3.5F | - | - |
| | | | | | | | | | |
| LB-CH-34-15-A | 22.0-33.0 | WR34 | Linear | 15 | A | 1.2 | FBP260 | - | - |
| LB-CH-34-15-C-XX | | | | | C | 1.5 | KF | - | - |
| LB-CH-34-20-A | | | | 20 | A | 1.2 | FBP260 | - | - |
| LB-CH-34-20-C-XX | | | | | C | 1.5 | KF | - | - |
| LB-CH-34-25-A | | | | 25 | A | 1.2 | FBP260 | - | - |
| LB-CH-34-25-C-XX | | | | | C | 1.5 | KF | - | - |
| | | | | | | | | | |
| LB-CH-28-15-A | 26.5-40.0 | WR28 | Linear | 15 | A | 1.2 | FBP320 | - | - |
| LB-CH-28-15-C-XX | | | | | C | 1.5 | KF/2.4F | - | - |
| LB-CH-28-20-A | | | | 20 | A | 1.2 | FBP320 | - | - |
| LB-CH-28-20-C-XX | | | | | C | 1.5 | KF/2.4F | - | - |
| LB-CH-28-25-A | | | | 25 | A | 1.2 | FBP320 | - | - |
| LB-CH-28-25-C-XX | | | | | C | 1.5 | KF/2.4F | - | - |
| | | | | | | | | | |
| LB-CH-22-15-A | 33.0-50.0 | WR22 | Linear | 15 | A | 1.2 | FUGP400 | - | - |
| LB-CH-22-15-C-XX | | | | | C | 1.5 | 2.4F | - | - |
| LB-CH-22-20-A | | | | 20 | A | 1.2 | FUGP400 | - | - |
| LB-CH-22-20-C-XX | | | | | C | 1.5 | 2.4F | - | - |
| LB-CH-22-25-A | | | | 25 | A | 1.2 | FUGP400 | - | - |
| LB-CH-22-25-C-XX | | | | | C | 1.5 | 2.4F | - | - |
| | | | | | | | | | |
| LB-CH-19-15-A | 40.0-60.0 | WR19 | Linear | 15 | A | 1.2 | FUGP500 | - | - |
| LB-CH-19-15-C-XX | | | | | C | 1.5 | 1.85F | - | - |
| LB-CH-19-20-A | | | | 20 | A | 1.2 | FUGP500 | - | - |
| LB-CH-19-20-C-XX | | | | | C | 1.5 | 1.85F | - | - |
| LB-CH-19-25-A | | | | 25 | A | 1.2 | FUGP500 | - | - |
| LB-CH-19-25-C-XX | | | | | C | 1.5 | 1.85F | - | - |



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| Model | Freq. (GHz) | WG | Pol. | Gain (dB) Typ. | Figure | VSWR Typ. | Output | Size(mm) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Length | Aperture Diameter |
| LB-CH-15-15-A | 50.0-75.0 | WR15 | Linear | 15 | A | 1.2 | FUGP620 | - | - |
| LB-CH-15-15-C-XX | 50.0-65.0 | | | | C | 1.5 | 1.85F | - | - |
| LB-CH-15-C20 | 59.0-67.0 | | Linear | 15 | A | 1.5 | FUGP620 | - | - |
| LB-CH-15-C21 | | | LHCP | 15 | A | 1.5 | FUGP620 | - | - |
| LB-CH-15-C22 | | | RHCP | 15 | A | 1.5 | FUGP620 | - | - |
| LB-CH-15-20-A | 50.0-75.0 | | Linear | 20 | A | 1.2 | FUGP620 | - | - |
| LB-CH-15-20-C-XX | 50.0-65.0 | | | | C | 1.5 | 1.85F | - | - |
| LB-CH-15-25-A | 50.0-75.0 | | Linear | 25 | A | 1.2 | FUGP620 | - | - |
| LB-CH-15-25-C-XX | 50.0-65.0 | | | | C | 1.5 | 1.85F | - | - |
| LB-CH-15-C10 | 59.0-67.0 | | Linear | 25 | A | 1.2 | FUGP620 | 119.2 | 42.3 |
| LB-CH-15-C11 | | | LHCP | 25 | A | 1.3 | FUGP620 | 119.2 | 42.3 |
| LB-CH-15-C12 | | | RHCP | 25 | A | 1.3 | FUGP620 | 119.2 | 42.3 |
| | | | | | | | | | |
| LB-CH-12-15-A | 60.0-90.0 | WR12 | Linear | 15 | A | 1.5 | FUGP740 | - | - |
| LB-CH-12-20-A | | | Linear | 20 | A | 1.5 | FUGP740 | - | - |
| LB-CH-12-25-A | | | Linear | 25 | A | 1.5 | FUGP740 | - | - |
| | | | | | | | | | |
| LB-CH-10-15-A | 75.0-110.0 | WR10 | Linear | 15 | A | 1.5 | FUGP900 | - | - |
| LB-CH-10-20-A | | | Linear | 20 | A | 1.5 | FUGP900 | - | - |
| LB-CH-10-25-A | | | Linear | 25 | A | 1.5 | FUGP900 | - | - |



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# Corrugated Conical Horn Antenna 8.2~12.4GHz

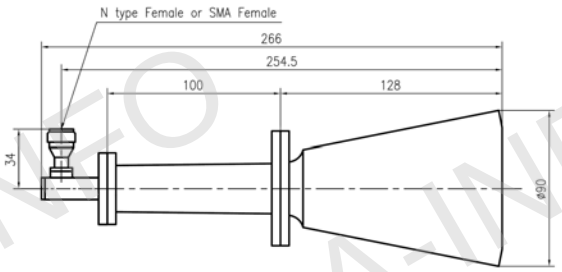
**P/N: LB-CH-90-15**



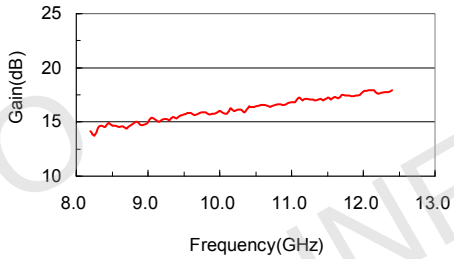
## Technical Specification

| | |
|---|---|
| Polarization | Linear |
| Frequency Range(GHz) | 8.2 - 12.4 |
| Gain(dB) | 15 Typ. |
| VSWR | A Type:1.15 Typ./<br>C Type:1.5 Typ. |
| Cross Pol. Isolation(dB) | -40 Typ. |
| Material | Al |
| Output | A Type: FBP100 /<br>C Type: N-F or SMA-F |
| Size(mm) | A Type: Φ90 x 228<br>C Type: Φ90 x 266 |
| Net Weight(Kg) | A Type: 0.7 /C Type: 0.8 Around |

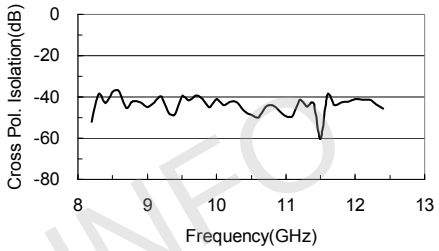
## Outline Drawing (Size: mm)



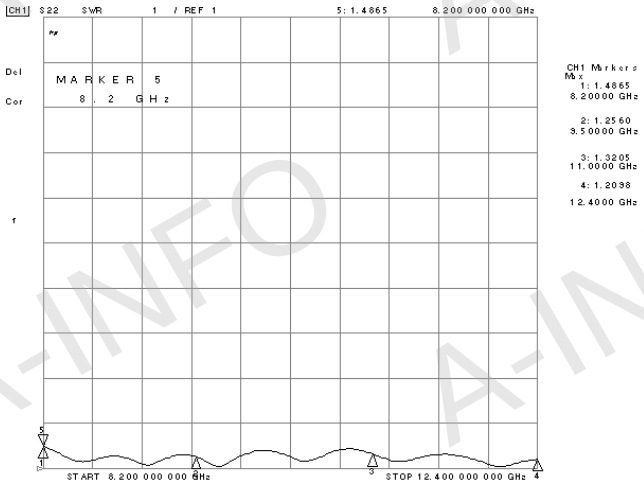

## Gain




## Cross Polarization Isolation




## VSWR





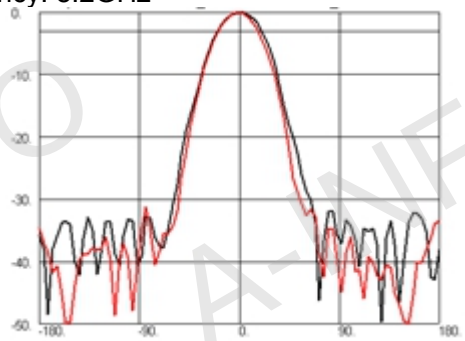

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# Corrugated Conical Horn Antenna 8.2-12.4GHz(continued)

**P/N: LB-CH-90-15**

**Pattern**

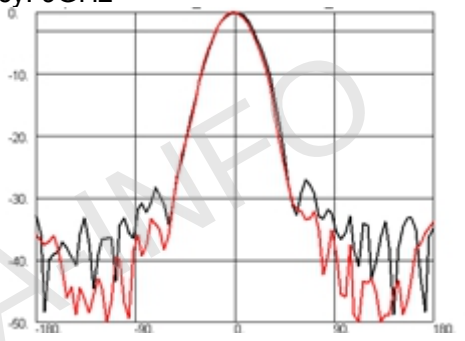
Frequency: 8.2GHz



H-Plane ——
3dB Beamwidth (deg): 35.41

E-Plane ——
3dB Beamwidth (deg): 40.42

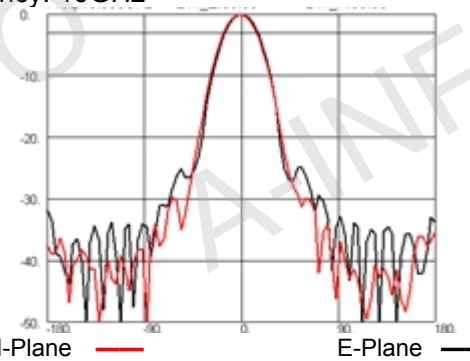
Frequency: 9GHz



H-Plane ——
3dB Beamwidth (deg): 32.09

E-Plane ——
3dB Beamwidth (deg): 33.71

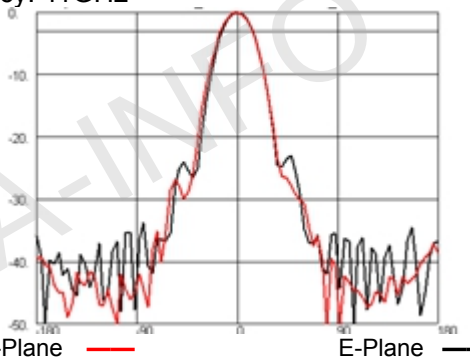
Frequency: 10GHz



H-Plane ——
3dB Beamwidth (deg): 30.00

E-Plane ——
3dB Beamwidth (deg): 30.06

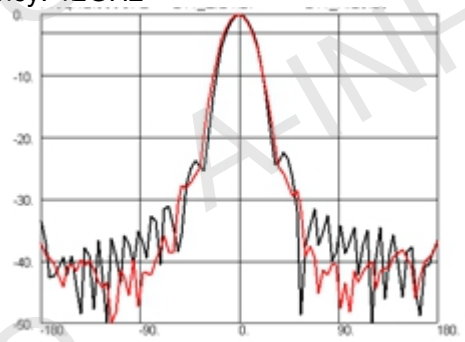
Frequency: 11GHz



H-Plane ——
3dB Beamwidth (deg): 28.01

E-Plane ——
3dB Beamwidth (deg): 27.05

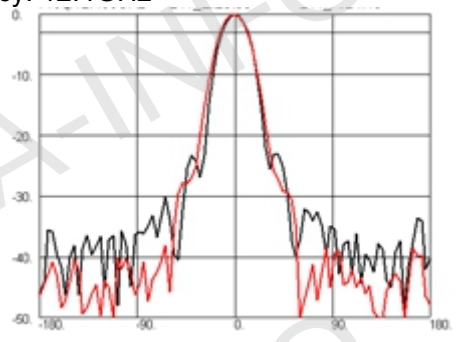
Frequency: 12GHz



H-Plane ——
3dB Beamwidth (deg): 25.26

E-Plane ——
3dB Beamwidth (deg): 24.27

Frequency: 12.4GHz



H-Plane ——
3dB Beamwidth (deg): 24.42

E-Plane ——
3dB Beamwidth (deg): 23.11



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# Corrugated Conical Horn Antenna 8.2~12.4GHz

**P/N: LB-CH-90-20**

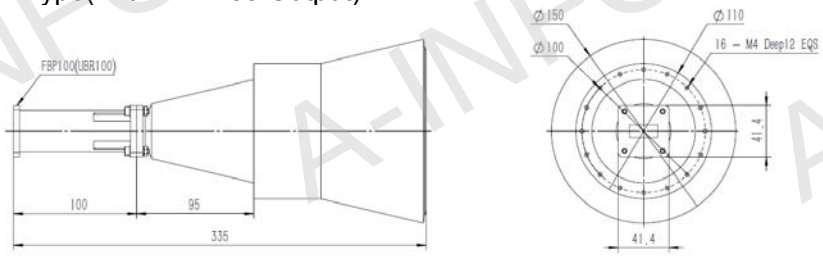


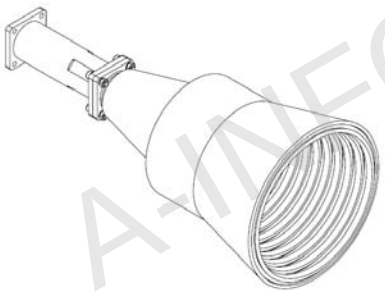
## Technical Specification

| | | |
|---|---|---|
| **Frequency Range(GHz)** | | 8.2 - 12.4 |
| **Waveguide** | | WR90 |
| **Gain(dB)** | | 20 Typ. |
| **Polarization** | | Linear |
| **Cross Pol. Isolation(dB)** | | -40 Typ. |
| **VSWR** | A Type: | 1.15:1 Typ. |
| | C Type: | 1.5:1 Typ. |
| **Output** | A Type: | FBP100 |
| | C Type: | SMA-Female or N-Female |
| **Material** | | Al |
| **Size(mm)** | A Type: | Φ150 x 335 |
| | C Type: | Φ150 x 373 |
| **Net Weight(Kg)** | A Type: | 1.6 Around |
| | C Type: | 1.7 Around |

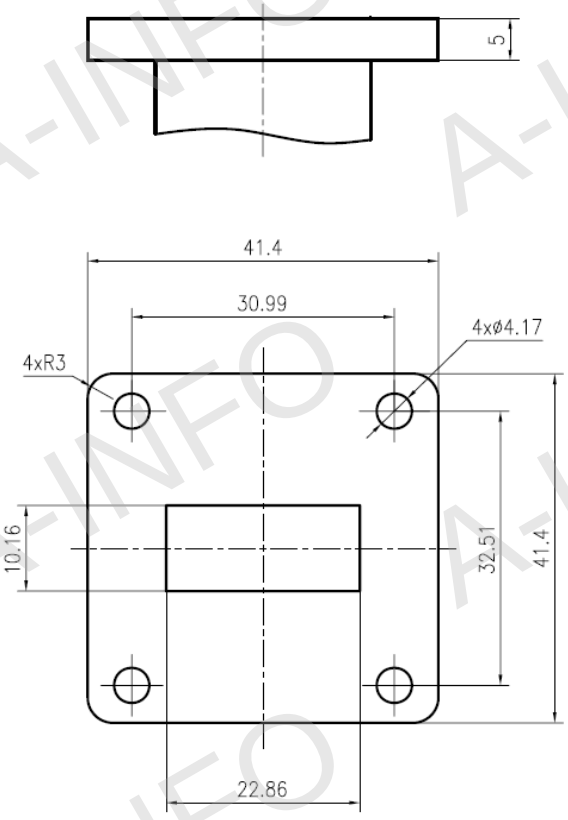
## Outline Drawing (Size: mm)

A Type(With FBP100 Output)



## Flange Outline Drawing (Size: mm)




FBP100



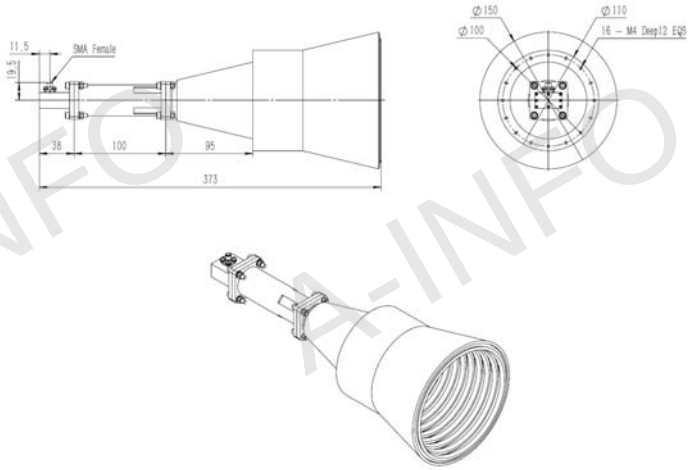
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# Corrugated Conical Horn Antenna 8.2-12.4GHz(continued)

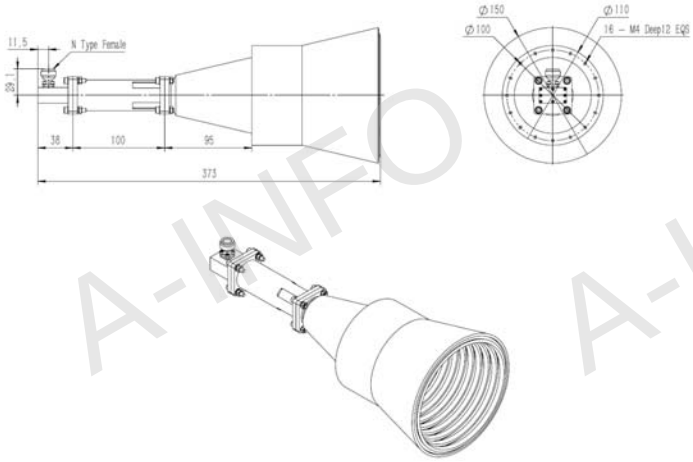
**P/N: LB-CH-90-20**

## Outline Drawing (Size: mm)

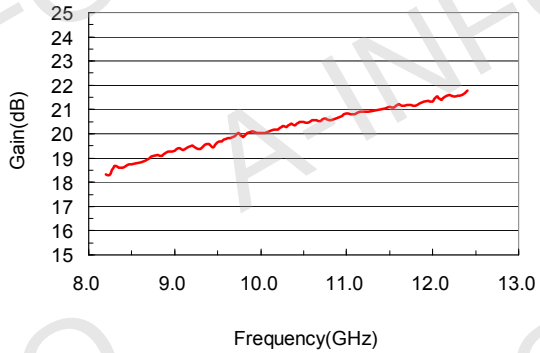
C Type (With SMA-Female Output)



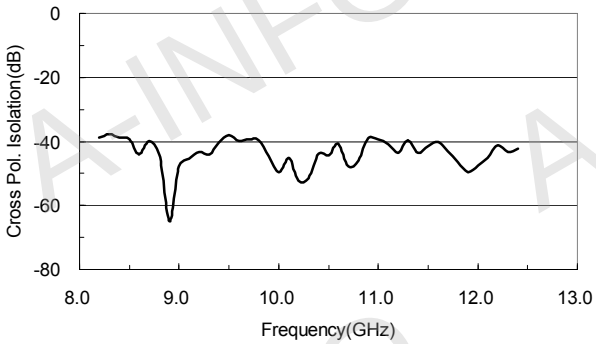

C Type (With N type Female Output)



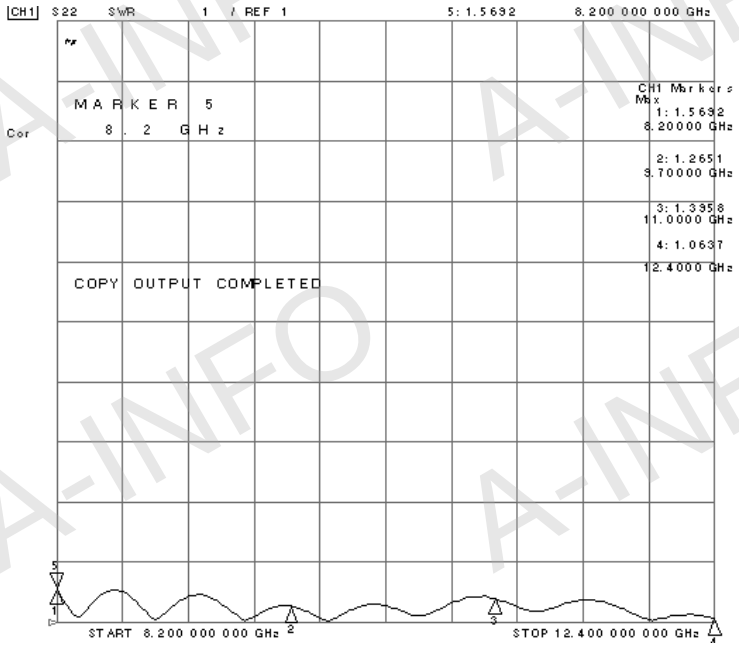

## Gain




## Cross Polarization Isolation




## VSWR





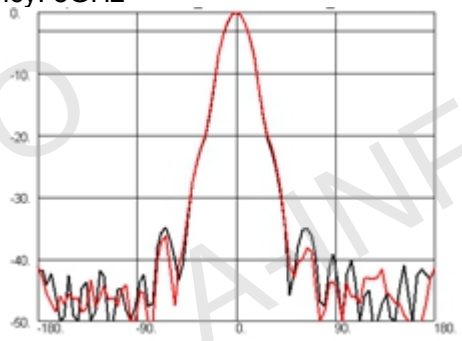

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# Corrugated Conical Horn Antenna 8.2-12.4GHz(continued)

**P/N: LB-CH-90-20**

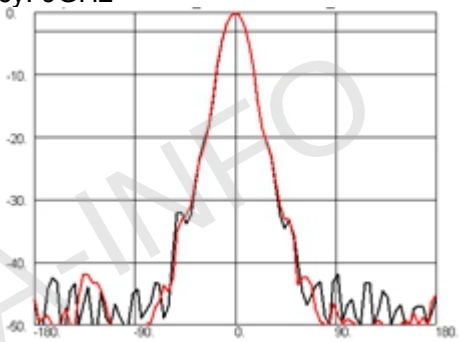
**Pattern**

Frequency: 8GHz



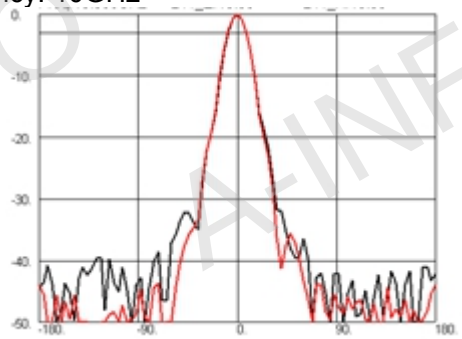
H-Plane —— E-Plane ——
3dB Beamwidth (deg): 20.52 3dB Beamwidth (deg): 20.58

Frequency: 9GHz



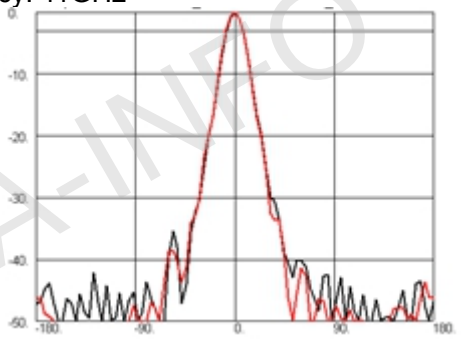
H-Plane —— E-Plane ——
3dB Beamwidth (deg): 18.86 3dB Beamwidth (deg): 18.75

Frequency: 10GHz



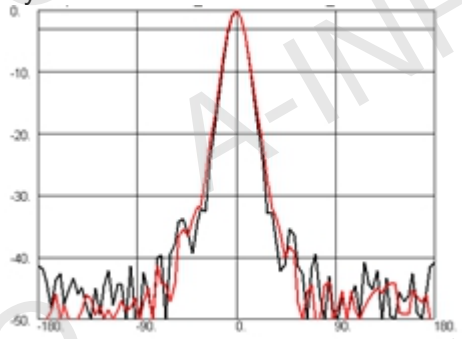
H-Plane —— E-Plane ——
3dB Beamwidth (deg): 16.93 3dB Beamwidth (deg): 16.56

Frequency: 11GHz



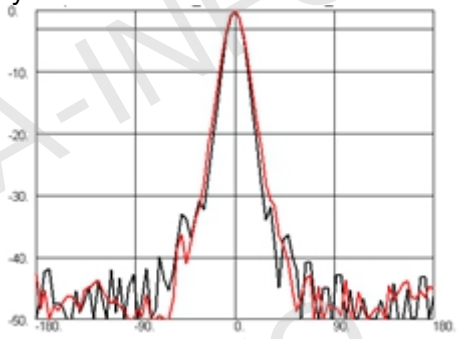
H-Plane —— E-Plane ——
3dB Beamwidth (deg): 15.37 3dB Beamwidth (deg): 14.94

Frequency: 12GHz



H-Plane —— E-Plane ——
3dB Beamwidth (deg): 14.18 3dB Beamwidth (deg): 13.61

Frequency: 12.4GHz



H-Plane —— E-Plane ——
3dB Beamwidth (deg): 13.85 3dB Beamwidth (deg): 12.63



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# Corrugated Conical Horn Antenna 59-67GHz

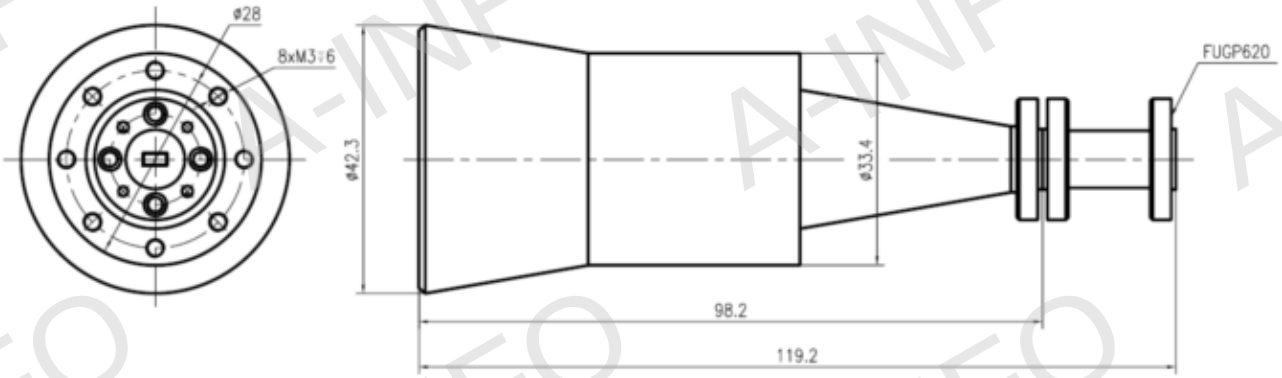
**P/N: LB-CH-15-C10**



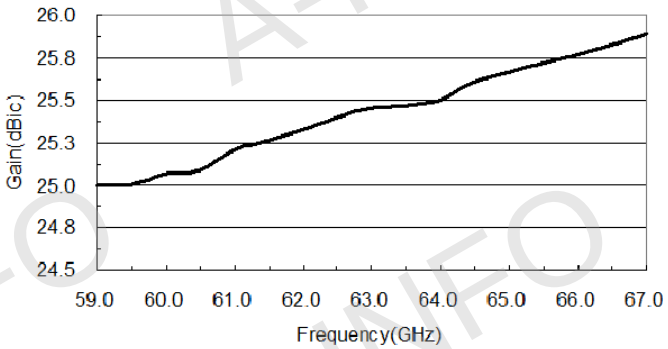
## Technical Specification

| | |
|---|---|
| Polarization | Linear |
| Frequency Range(GHz) | 59-67 |
| Gain(dBic) | 25 Typ. |
| Side Lobe(dB) | -30 Typ. |
| VSWR | 1.2 Typ. |
| Waveguide | WR15 |
| Output | FUGP620 |
| Material | Cu |
| Size(mm) | Φ42.3 x 119.2 Approx. |
| Net Weight(Kg) | 0.25 Around |

## Outline Drawing (Size: mm)




## Gain




## VSWR




| Freq.(GHz) | 59 | 63 | 67 |
|---|---|---|---|
| VSWR | 1.14 | 1.05 | 1.17 |



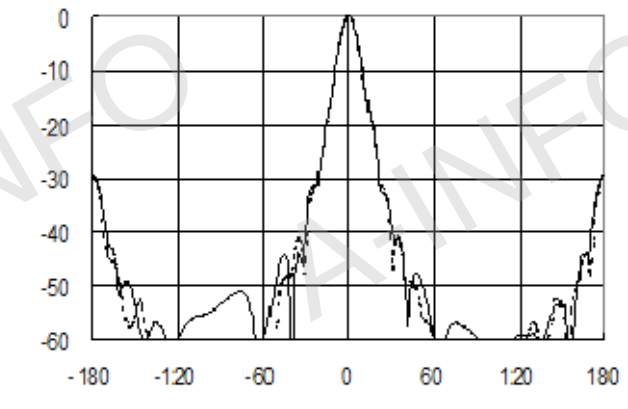
China(Beijing): Tel: (+86) 10-6266-7326, (+86) 10-6266-7327 Fax: (+86) 10-6266-7379
China(Chengdu): Tel: (+86) 28-8519-2786, (+86) 28-8519-3044 Fax: (+86) 28-8519-3068
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# Corrugated Conical Horn Antenna 59-67GHz(continued)

**P/N: LB-CH-15-C10**

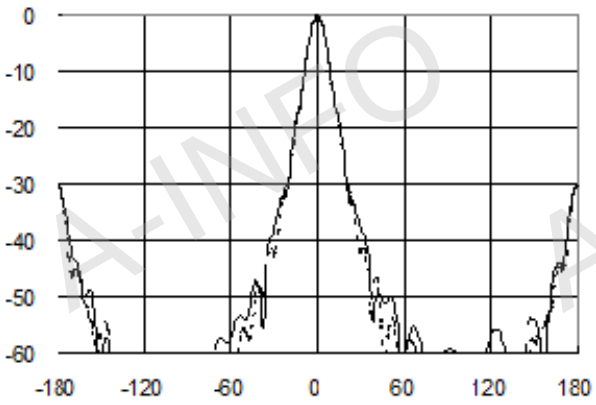
**Pattern**

Frequency: 59GHz



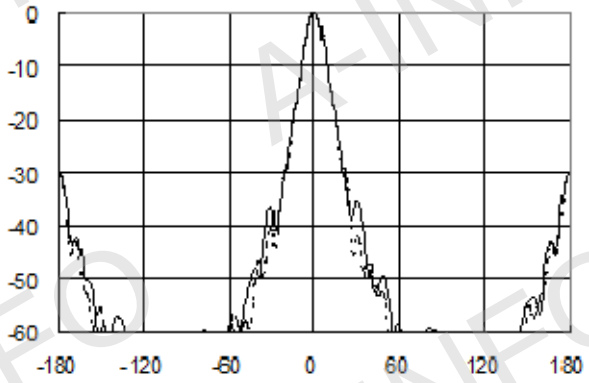

H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 10.90 3dB Beamwidth(deg): 10.70

Frequency: 63GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 10.20 3dB Beamwidth(deg): 10.05

Frequency: 67GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(deg): 9.60 3dB Beamwidth(deg): 9.50



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# Corrugated Conical Horn Antenna 59-67GHz

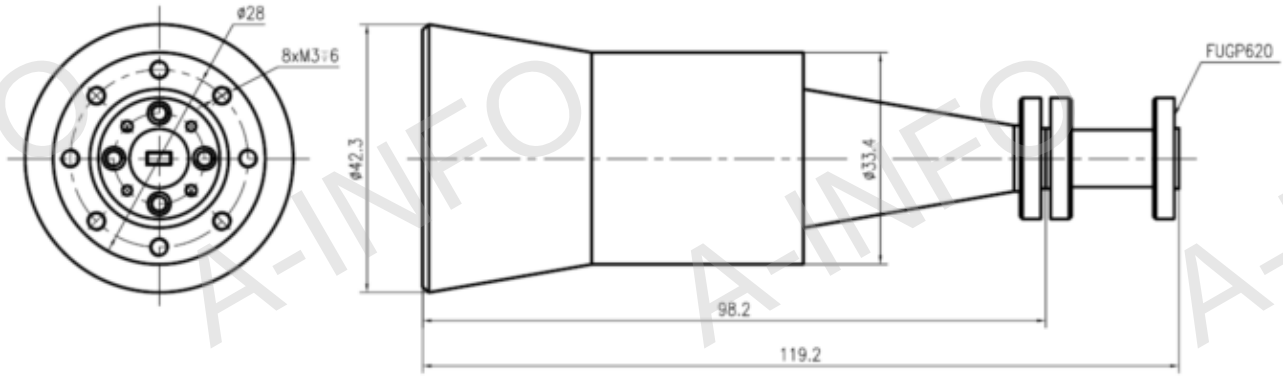
**P/N: LB-CH-15-C11**



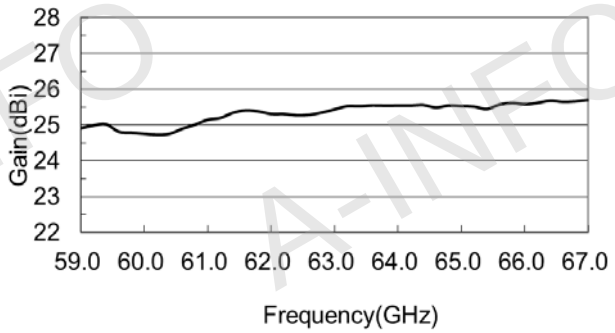
## Technical Specification

| | |
|---|---|
| Polarization | LHCP |
| Frequency Range(GHz) | 59-67 |
| Gain(dBic) | 25 Typ. |
| Side Lobe(dB) | -30 Min. |
| VSWR | 1.3 Max. |
| Axial Ratio(dB) | 2.0 Typ. / 3.0 Max. |
| Output | FUGP620 |
| Material | Cu |
| Size(mm) | Φ42.3 x 119.2 Approx. |
| Net Weight(Kg) | 0.25 Around |

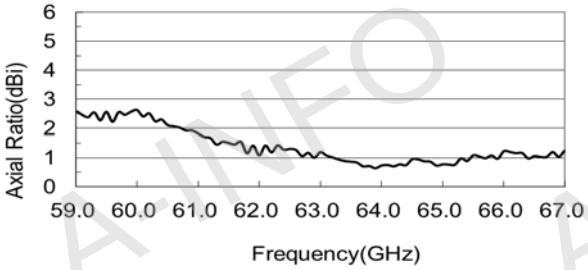
## Outline Drawing (Size: mm)



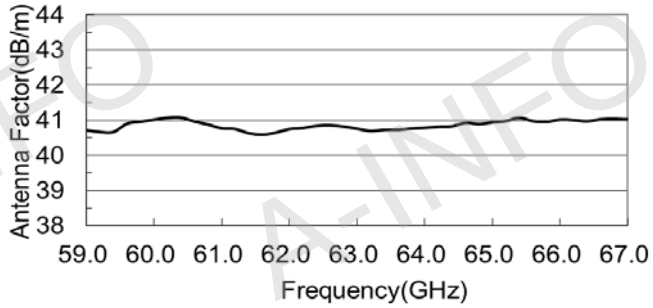

## Gain



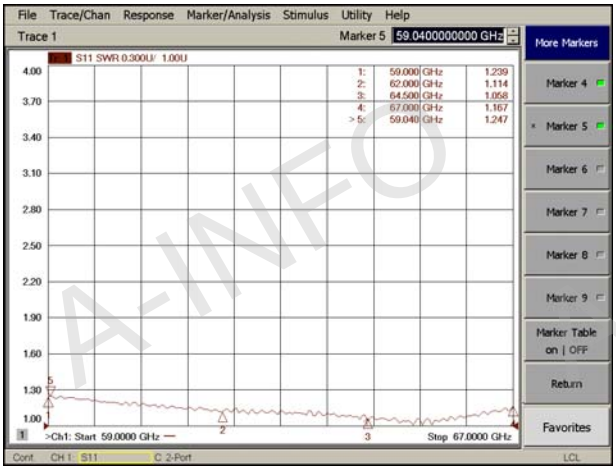

## Axial Ratio




## Antenna Factor




## VSWR



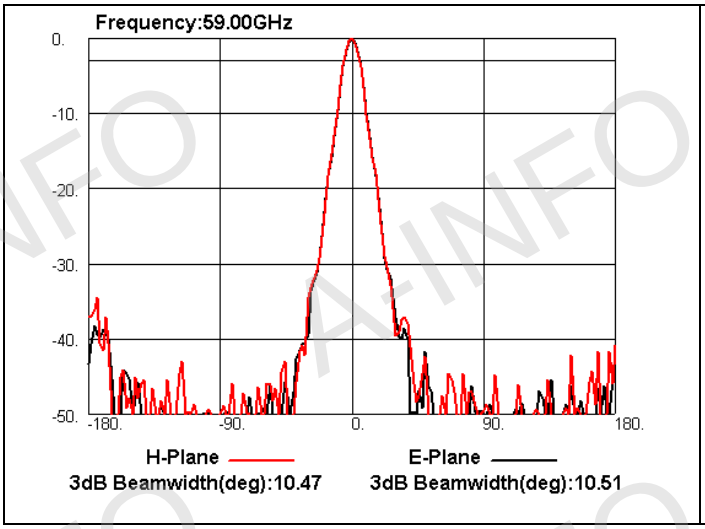


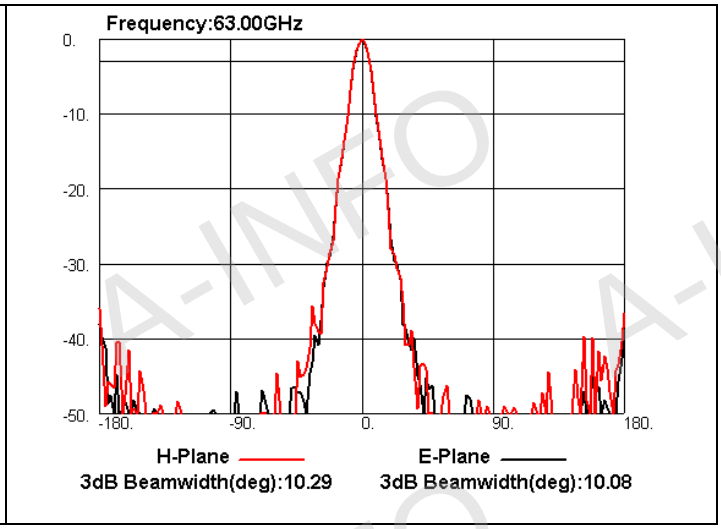

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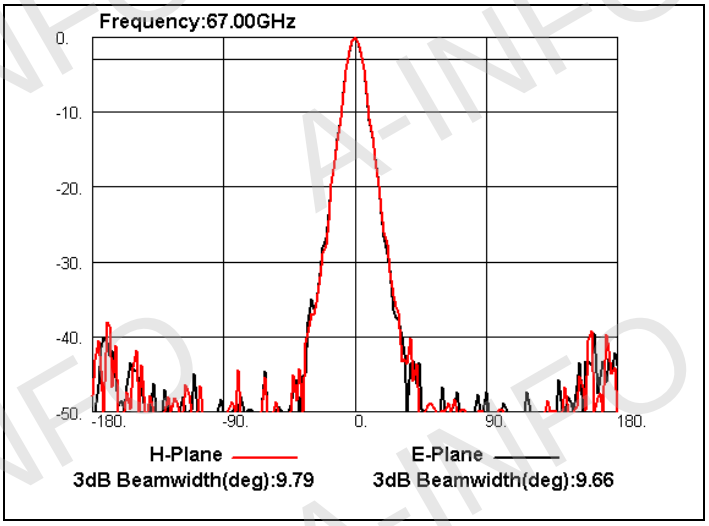
# Corrugated Conical Horn Antenna 59-67GHz(continued)

## P/N: LB-CH-15-C11

### Pattern






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# Corrugated Feed Horn Antenna

## Include the following Types Corrugated Feed Horn Antennas:

1. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface (Table 1)
2. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Equipped with Absorber (Table 2)
3. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Dual Linear Polarization (Table 3)
4. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Dual Linear Polarization, Equipped with Absorber (Table 4)

LB-ACH series corrugated feed horn antennas are axially corrugated aperture design horn. Those corrugated feed horn antennas have features like: rotationally symmetric radiation pattern, low cross polarization and stable amplitude taper within operating frequency. There are four kinds of polarization options: Linear, Circular(RHCP/LHCP), Dual Linear and Dual Circular for LB-ACH series feed horn antenna. A-INFO's corrugated feed horn antennas can cover from 0.75GHz to 220GHz frequency range. Those feed horn antennas are precisely fabricated to minimize the tolerance of aperture corrugated groove and are ideally suited for Compact Antenna Test Range(CATR), Reflector antennas and other applications. All feed horn antennas have an option of integration with absorber for better gain flatness and radiation pattern.

Model Information

| Example Part Number: | LB-ACH | -90 | -10 | -T06 | -C | -SF | -A1 |
|---|---|---|---|---|---|---|---|
| Product Code | | | | | | | |
| Waveguide Size: WR975 to WR5<br>EIA WR Size | | | | | | | |
| Gain in dB, Standard gain is 10dB | | | | | | | |
| Polarization options, For Circular and Dual Pol. modules.<br>Leave blank for Linear Polarization modules. | | | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | | | |
| Figure C Connector Type Option:<br>7/16=7/16 DIN Female;<br>N=N Type-Female; NM=N Type-Male;<br>S=SMA-Female; SM=SMA-Male;<br>3.5=3.5mm-Female; 3.5M=3.5mm-Male;<br>K=2.92mm-Female; KM=2.92mm-Male<br>2.4=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85=1.85mm-Female; 1.85M=1.85mm-Male | | | | | | | |
| Option for Absorber<br>**A1**: Standard Absorber | | | | | | | |

## Calibration Option

Far Field Calibration Data with Extra Fee

## Feed Horn Antenna Accessories

1. Mounting Bracket
2. Tripod
3. Radome
4. Carrying Case



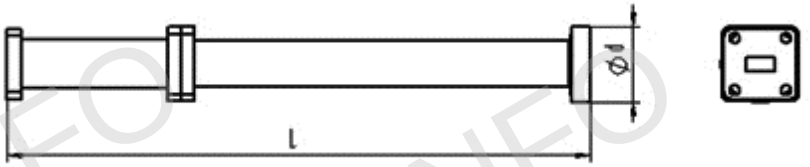
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Email: sales@ainfoinc.com

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Corrugated Feed Horn Antennas and download.*

## 1. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface

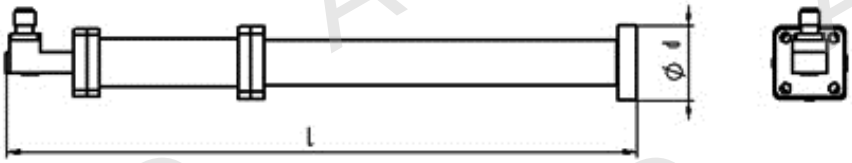
A Type, WG Output:






C Type, Coaxial Output:






| Model | Frequency (GHz) | EIA WR | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ϕd | L | |
| LB-ACH-975-10-A | 0.75-1.12 | WR975 | 10 | Linear | A | 1.3 | FDP9 | - | - | Al |
| LB-ACH-975-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-770-10-A | 0.96-1.45 | WR770 | 10 | Linear | A | 1.3 | FDP12 | - | - | Al |
| LB-ACH-770-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-650-10-A | 1.12-1.70 | WR650 | 10 | Linear | A | 1.3 | FDP14 | - | - | Al |
| LB-ACH-650-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-510-10-A | 1.45-2.20 | WR510 | 10 | Linear | A | 1.3 | FDP18 | - | - | Al |
| LB-ACH-510-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-430-10-A | 1.70-2.60 | WR430 | 10 | Linear | A | 1.3 | FDP22 | - | - | Al |
| LB-ACH-430-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-340-10-A | 2.20-3.30 | WR340 | 10 | Linear | A | 1.3 | FDP26 | - | - | Al |
| LB-ACH-340-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-284-10-A | 2.60-3.95 | WR284 | 10 | Linear | A | 1.3 | FDP32 | - | - | Al |
| LB-ACH-284-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-229-10-A | 3.30-4.90 | WR229 | 10 | Linear | A | 1.3 | FDP40 | - | - | Al |
| LB-ACH-229-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-187-10-A | 3.95-5.85 | WR187 | 10 | Linear | A | 1.3 | FDP48 | - | - | Al |
| LB-ACH-187-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |



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Email: sales@ainfoinc.com

| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ϕd | L | |
| LB-ACH-159-10-A | 4.90-7.05 | WR159 | 10 | Linear | A | 1.3 | FDP58 | - | - | Al |
| LB-ACH-159-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-137-10-A | 5.85-8.20 | WR137 | 10 | Linear | A | 1.3 | FDP70 | - | - | Al |
| LB-ACH-137-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-112-10-A | 7.05-10.0 | WR112 | 10 | Linear | A | 1.3 | FBP84 | - | - | Al |
| LB-ACH-112-10-C-XX | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-90-10-A | 8.2-12.4 | WR90 | 10 | Linear | A | 1.3 | FBP100 | - | - | Al |
| LB-ACH-90-10-C-XX | | | | | C | 1.6 | SF / NF | - | - | Al |
| LB-ACH-75-10-A | 10.0-15.0 | WR75 | 10 | Linear | A | 1.3 | FBP120 | - | - | Al |
| LB-ACH-75-10-C-XX | | | | | C | 1.6 | SF / NF | - | - | Al |
| LB-ACH-62-10-A | 12.4-18.0 | WR62 | 10 | Linear | A | 1.3 | FBP140 | - | - | Al |
| LB-ACH-62-10-C-XX | | | | | C | 1.6 | SF / NF | - | - | Al |
| LB-ACH-51-10-A | 15.0-22.0 | WR51 | 10 | Linear | A | 1.4 | FBP180 | - | - | Al |
| LB-ACH-51-10-C-XX | | | | | C | 1.8 | SF | - | - | Al |
| LB-ACH-42-10-A | 18.0-26.5 | WR42 | 10 | Linear | A | 1.4 | FBP220 | - | - | Al |
| LB-ACH-42-10-C-XX | | | | | C | 1.8 | SF/KF/3.5F | - | - | Al |
| LB-ACH-34-10-A | 22.0-33.0 | WR34 | 10 | Linear | A | 1.4 | FBP260 | 22.9 | 170.1 | Al |
| LB-ACH-34-10-C-XX | | | | | C | 1.8 | KF | 22.9 | 195.1 | Al |
| LB-ACH-28-10-A | 26.5-40.0 | WR28 | 10 | Linear | A | 1.4 | FBP320 | - | - | Cu |
| LB-ACH-28-10-C-XX | | | | | C | 1.8 | KF / 2.4F | - | - | Cu |
| LB-ACH-22-10-A | 33.0-50.0 | WR22 | 10 | Linear | A | 1.5 | FUGP400 | - | - | Cu |
| LB-ACH-22-10-C-XX | | | | | C | 2 | 2.4F | - | - | Cu |
| LB-ACH-19-10-A | 40.0-60.0 | WR19 | 10 | Linear | A | 1.5 | FUGP500 | - | - | Cu |
| LB-ACH-19-10-C-XX | | | | | C | 2 | 1.85F | - | - | Cu |
| LB-ACH-15-10-A | 50.0-75.0 | WR15 | 10 | Linear | A | 1.5 | FUGP620 | - | - | Cu |
| LB-ACH-15-10-C-XX | 50.0-65.0 | | | | C | 2 | 1.85F | - | - | Cu |
| LB-ACH-12-10-A | 60.0-90.0 | WR12 | 10 | Linear | A | 1.6 | FUGP740 | - | - | Cu |
| LB-ACH-10-10-A | 75.0-110.0 | WR10 | 10 | Linear | A | 1.6 | FUGP900 | - | - | Cu |
| LB-ACH-8-10-A | 90.0-140.0 | WR8 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |
| LB-ACH-6-10-A | 110.0-170.0 | WR6 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |
| LB-ACH-5-10-A | 140.0-220.0 | WR5 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |

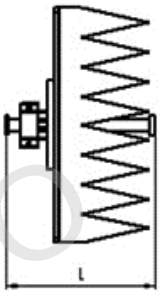


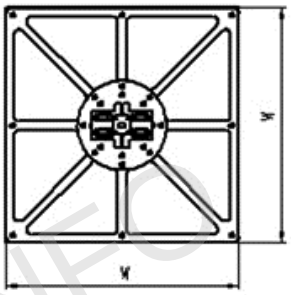
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## 2. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Equipped with Absorber

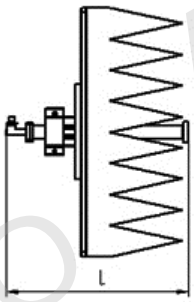


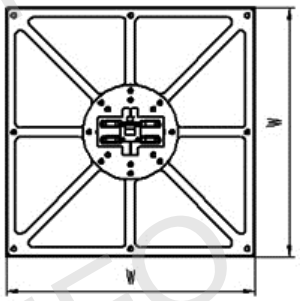
A Type, WG Output:




C Type, Coaxial Output:




| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | W | L | |
| LB-ACH-975-10-A-A1 | 0.75-1.12 | WR975 | 10 | Linear | A | 1.3 | FDP9 | - | - | Al |
| LB-ACH-975-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-770-10-A-A1 | 0.96-1.45 | WR770 | 10 | Linear | A | 1.3 | FDP12 | - | - | Al |
| LB-ACH-770-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-650-10-A-A1 | 1.12-1.70 | WR650 | 10 | Linear | A | 1.3 | FDP14 | - | - | Al |
| LB-ACH-650-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-510-10-A-A1 | 1.45-2.20 | WR510 | 10 | Linear | A | 1.3 | FDP18 | - | - | Al |
| LB-ACH-510-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-430-10-A-A1 | 1.70-2.60 | WR430 | 10 | Linear | A | 1.3 | FDP22 | - | - | Al |
| LB-ACH-430-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-340-10-A-A1 | 2.20-3.30 | WR340 | 10 | Linear | A | 1.3 | FDP26 | - | - | Al |
| LB-ACH-340-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | - | - | Al |
| LB-ACH-284-10-A-A1 | 2.60-3.95 | WR284 | 10 | Linear | A | 1.3 | FDP32 | 375 | - | Al |
| LB-ACH-284-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 375 | - | Al |
| LB-ACH-229-10-A-A1 | 3.30-4.90 | WR229 | 10 | Linear | A | 1.3 | FDP40 | 375 | - | Al |
| LB-ACH-229-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 375 | - | Al |



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Website: www.ainfoinc.com
Email: sales@ainfoinc.com

| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | W | L | |
| LB-ACH-187-10-A-A1 | 3.95-5.85 | WR187 | 10 | Linear | A | 1.3 | FDP48 | 375 | - | Al |
| LB-ACH-187-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 375 | - | Al |
| LB-ACH-159-10-A-A1 | 4.90-7.05 | WR159 | 10 | Linear | A | 1.3 | FDP58 | 375 | - | Al |
| LB-ACH-159-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 375 | - | Al |
| LB-ACH-137-10-A-A1 | 5.85-8.20 | WR137 | 10 | Linear | A | 1.3 | FDP70 | 300 | - | Al |
| LB-ACH-137-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 300 | - | Al |
| LB-ACH-112-10-A-A1 | 7.05-10.0 | WR112 | 10 | Linear | A | 1.3 | FBP84 | 300 | - | Al |
| LB-ACH-112-10-C-XX-A1 | | | | | C | 1.6 | NF / SF | 300 | - | Al |
| LB-ACH-90-10-A-A1 | 8.2-12.4 | WR90 | 10 | Linear | A | 1.3 | FBP100 | 266.4 | - | Al |
| LB-ACH-90-10-C-XX-A1 | | | | | C | 1.6 | SF / NF | 266.4 | - | Al |
| LB-ACH-75-10-A-A1 | 10.0-15.0 | WR75 | 10 | Linear | A | 1.3 | FBP120 | 266.4 | - | Al |
| LB-ACH-75-10-C-XX-A1 | | | | | C | 1.6 | SF / NF | 266.4 | - | Al |
| LB-ACH-62-10-A-A1 | 12.4-18.0 | WR62 | 10 | Linear | A | 1.3 | FBP140 | 266.4 | - | Al |
| LB-ACH-62-10-C-XX-A1 | | | | | C | 1.6 | SF / NF | 266.4 | - | Al |
| LB-ACH-51-10-A-A1 | 15.0-22.0 | WR51 | 10 | Linear | A | 1.4 | FBP180 | 266.4 | - | Al |
| LB-ACH-51-10-C-XX-A1 | | | | | C | 1.8 | SF | 266.4 | - | Al |
| LB-ACH-42-10-A-A1 | 18.0-26.5 | WR42 | 10 | Linear | A | 1.4 | FBP220 | 266.4 | - | Al |
| LB-ACH-42-10-C-XX-A1 | | | | | C | 1.8 | SF/KF/3.5F | 266.4 | - | Al |
| LB-ACH-34-10-A-A1 | 22.0-33.0 | WR34 | 10 | Linear | A | 1.4 | FBP260 | 266.4 | 170.1 | Al |
| LB-ACH-34-10-C-XX-A1 | | | | | C | 1.8 | KF | 266.4 | 195.1 | Al |
| LB-ACH-28-10-A-A1 | 26.5-40.0 | WR28 | 10 | Linear | A | 1.4 | FBP320 | 259 | - | Cu |
| LB-ACH-28-10-C-XX-A1 | | | | | C | 1.8 | KF / 2.4F | 259 | - | Cu |
| LB-ACH-22-10-A-A1 | 33.0-50.0 | WR22 | 10 | Linear | A | 1.5 | FUGP400 | 259 | - | Cu |
| LB-ACH-22-10-C-XX-A1 | | | | | C | 2 | 2.4F | 259 | - | Cu |
| LB-ACH-19-10-A-A1 | 40.0-60.0 | WR19 | 10 | Linear | A | 1.5 | FUGP500 | 259 | - | Cu |
| LB-ACH-19-10-C-XX-A1 | | | | | C | 2 | 1.85F | 259 | - | Cu |
| LB-ACH-15-10-A-A1 | 50.0-75.0 | WR15 | 10 | Linear | A | 1.5 | FUGP620 | 259 | - | Cu |
| LB-ACH-15-10-C-XX-A1 | 50.0-65.0 | | | | C | 2 | 1.85F | 259 | - | Cu |
| LB-ACH-12-10-A-A1 | 60.0-90.0 | WR12 | 10 | Linear | A | 1.6 | FUGP740 | 259 | - | Cu |
| LB-ACH-10-10-A-A1 | 75.0-110.0 | WR10 | 10 | Linear | A | 1.6 | FUGP900 | 259 | - | Cu |



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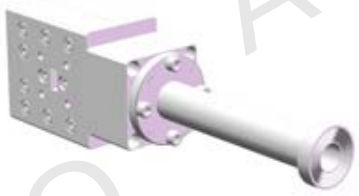
| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | W | L | |
| LB-ACH-8-10-A-A1 | 90.0-140.0 | WR8 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-6-10-A-A1 | 110.0-170.0 | WR6 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-5-10-A-A1 | 140.0-220.0 | WR5 | 10 | Linear | A | 1.6 | UG387/U-M | - | - | Cu |

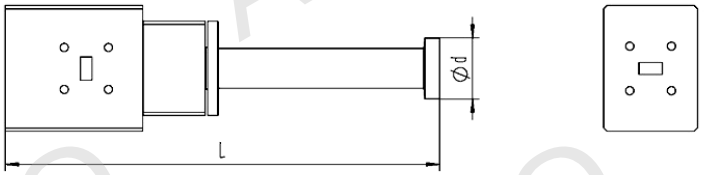


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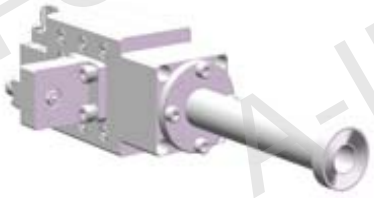
## 3. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Dual Linear Polarization

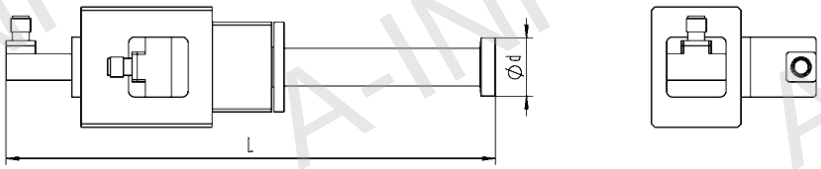
A Type, WG Output:






C Type, Coaxial Output:






| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ϕd | L | |
| LB-ACH-137-10-T02-A | 5.85-8.20 | WR137 | 10 | Dual Linear | A | 1.6 | FDP70 | - | - | Al |
| LB-ACH-137-10-T02-C-XX | | | | | C | 2.0 | NF / SF | - | - | Al |
| LB-ACH-112-10-T02-A | 7.05-10.0 | WR112 | 10 | Dual Linear | A | 1.6 | FBP84 | - | - | Al |
| LB-ACH-112-10-T02-C-XX | | | | | C | 2.0 | NF / SF | - | - | Al |
| LB-ACH-90-10-T02-A | 8.2-12.4 | WR90 | 10 | Dual Linear | A | 1.6 | FBP100 | - | - | Al |
| LB-ACH-90-10-T02-C-XX | | | | | C | 2.0 | SF / NF | - | - | Al |
| LB-ACH-75-10-T02-A | 10.0-10.0 | WR75 | 10 | Dual Linear | A | 1.6 | FBP120 | - | - | Al |
| LB-ACH-75-10-T02-C-XX | | | | | C | 2.0 | SF / NF | - | - | Al |
| LB-ACH-62-10-T02-A | 12.4-18.0 | WR62 | 10 | Dual Linear | A | 1.6 | FBP140 | - | - | Al |
| LB-ACH-62-10-T02-C-XX | | | | | C | 2.0 | SF / NF | - | - | Al |
| LB-ACH-51-10-T02-A | 15.0-22.0 | WR51 | 10 | Dual Linear | A | 1.8 | FBP180 | - | - | Al |
| LB-ACH-51-10-T02-C-XX | | | | | C | 2.2 | SF | - | - | Al |
| LB-ACH-42-10-T02-A | 18.0-26.5 | WR42 | 10 | Dual Linear | A | 1.8 | FBP220 | - | - | Al |
| LB-ACH-42-10-T02-C-XX | | | | | C | 2.2 | SF/KF/3.5F | - | - | Al |
| LB-ACH-34-10-T02-A | 22.0-33.0 | WR34 | 10 | Dual Linear | A | 1.8 | FBP260 | - | - | Al |
| LB-ACH-34-10-T02-C-XX | | | | | C | 2.2 | KF | - | - | Al |
| LB-ACH-28-10-T02-A | 26.5-40.0 | WR28 | 10 | Dual Linear | A | 1.8 | FBP320 | - | - | Cu |
| LB-ACH-28-10-T02-C-XX | | | | | C | 2.2 | KF / 2.4F | - | - | Cu |
| LB-ACH-22-10-T02-A | 33.0-50.0 | WR22 | 10 | Dual Linear | A | 2.0 | FUGP400 | - | - | Cu |
| LB-ACH-22-10-T02-C-XX | | | | | C | 2.5 | 2.4F | - | - | Cu |



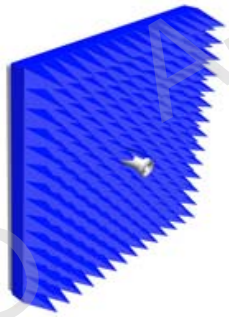
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| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ϕd | L | |
| LB-ACH-19-10-T02-A | 40.0-60.0 | WR19 | 10 | Dual Linear | A | 2.0 | FUGP500 | - | - | Cu |
| LB-ACH-19-10-T02-C-XX | | | | | C | 2.5 | 1.85F | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-15-10-T02-A | 50.0-75.0 | WR15 | 10 | Dual Linear | A | 2.0 | FUGP620 | - | - | Cu |
| LB-ACH-15-10-T02-C-XX | 50.0-65.0 | | | | C | 2.5 | 1.85F | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-12-10-T02-A | 60.0-90.0 | WR12 | 10 | Dual Linear | A | 2.0 | FUGP740 | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-10-T02-10-A | 75.0-110.0 | WR10 | 10 | Dual Linear | A | 2.0 | FUGP900 | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-8-10-T02-A | 90.0-140.0 | WR8 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-6-10-T02-A | 110.0-170.0 | WR6 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-5-10-T02-A | 140.0-220.0 | WR5 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |

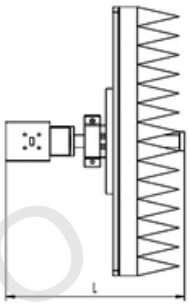


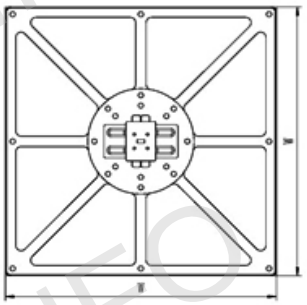
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## 4. Corrugated Feed Horn Antennas with Waveguide and Coaxial Interface, Dual Linear Polarization, Equipped with Absorber



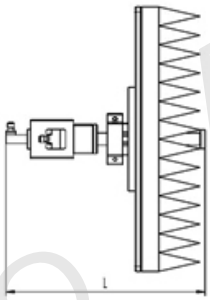
A Type, WG Output:

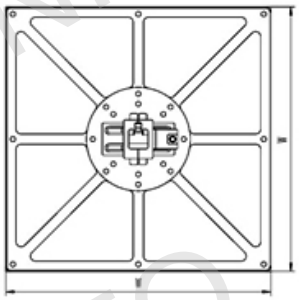






C Type, Coaxial Output:





| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | *Mat. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | W | L | |
| LB-ACH-137-10-T02-T02-A-A1 | 5.85-8.20 | WR137 | 10 | Dual Linear | A | 1.6 | FDP70 | 300 | - | Al |
| LB-ACH-137-10-T02-T02-C-XX-A1 | | | | | C | 2.0 | NF / SF | 300 | - | Al |
| LB-ACH-112-10-T02-A-A1 | 7.05-10.0 | WR112 | 10 | Dual Linear | A | 1.6 | FBP84 | 300 | - | Al |
| LB-ACH-112-10-T02-C-XX-A1 | | | | | C | 2.0 | NF / SF | 300 | - | Al |
| LB-ACH-90-10-T02-A-A1 | 8.2-12.4 | WR90 | 10 | Dual Linear | A | 1.6 | FBP100 | 266.4 | - | Al |
| LB-ACH-90-10-T02-C-XX-A1 | | | | | C | 2.0 | SF / NF | 266.4 | - | Al |
| LB-ACH-75-10-T02-A-A1 | 10.0-15.0 | WR75 | 10 | Dual Linear | A | 1.6 | FBP120 | 266.4 | - | Al |
| LB-ACH-75-10-T02-C-XX-A1 | | | | | C | 2.0 | SF / NF | 266.4 | - | Al |
| LB-ACH-62-10-T02-A-A1 | 12.4-18.0 | WR62 | 10 | Dual Linear | A | 1.6 | FBP140 | 266.4 | - | Al |
| LB-ACH-62-10-T02-C-XX-A1 | | | | | C | 2.0 | SF / NF | 266.4 | - | Al |
| LB-ACH-51-10-T02-A-A1 | 15.0-22.0 | WR51 | 10 | Dual Linear | A | 1.8 | FBP180 | 266.4 | - | Al |
| LB-ACH-51-10-T02-C-XX-A1 | | | | | C | 2.2 | SF | 266.4 | - | Al |
| LB-ACH-42-10-T02-A-A1 | 18.0-26.5 | WR42 | 10 | Dual Linear | A | 1.8 | FBP220 | 266.4 | - | Al |
| LB-ACH-42-10-T02-C-XX-A1 | | | | | C | 2.2 | SF/KF/3.5F | 266.4 | - | Al |
| LB-ACH-34-10-T02-A-A1 | 22.0-33.0 | WR34 | 10 | Dual Linear | A | 1.8 | FBP260 | 266.4 | - | Al |
| LB-ACH-34-10-T02-C-XX-A1 | | | | | C | 2.2 | KF | 266.4 | - | Al |



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| Model | Frequency (GHz) | EIA WC | Gain (dB) | Pol. | Figure | VSWR Typ. | Output | Size (mm) | | *Mat. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | W | L | |
| LB-ACH-28-10-T02-A-A1 | 26.5-40.0 | WR28 | 10 | Dual Linear | A | 1.8 | FBP320 | 259 | - | Cu |
| LB-ACH-28-10-T02-C-XX-A1 | | | | | C | 2.2 | KF / 2.4F | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-22-10-T02-A-A1 | 33.0-50.0 | WR22 | 10 | Dual Linear | A | 2.0 | FUGP400 | 259 | - | Cu |
| LB-ACH-22-10-T02-C-XX-A1 | | | | | C | 2.5 | 2.4F | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-19-10-T02-A | 40.0-60.0 | WR19 | 10 | Dual Linear | A | 2.0 | FUGP500 | 259 | - | Cu |
| LB-ACH-19-10-T02-C-XX | | | | | C | 2.5 | 1.85F | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-15-10-T02-A-A1 | 50.0-75.0 | WR15 | 10 | Dual Linear | A | 2.0 | FUGP620 | 259 | - | Cu |
| LB-ACH-15-10-T02-C-XX-A1 | 50.0-65.0 | | | | C | 2.5 | 1.85F | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-12-10-T02-A-A1 | 60.0-90.0 | WR12 | 10 | Dual Linear | A | 2.0 | FUGP740 | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-10-T02-10-A-A1 | 75.0-110.0 | WR10 | 10 | Dual Linear | A | 2.0 | FUGP900 | 259 | - | Cu |
| | | | | | | | | | | |
| LB-ACH-8-10-T02-A-A1 | 90.0-140.0 | WR8 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-6-10-T02-A-A1 | 110.0-170.0 | WR6 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |
| | | | | | | | | | | |
| LB-ACH-5-10-T02-A-A1 | 140.0-220.0 | WR5 | 10 | Dual Linear | A | 2.0 | UG387/U-M | - | - | Cu |



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# Corrugated Feed Horn Antenna 22.0~33.0GHz

**P/N: LB-ACH-34-10**



LB-ACH-34-10-C-KF



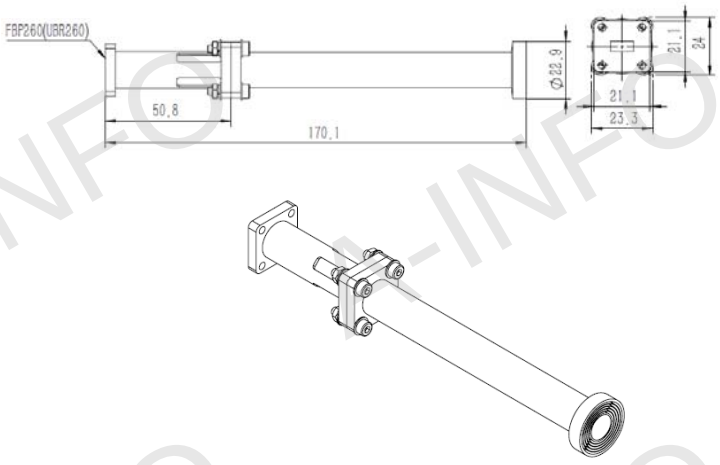
LB-ACH-34-10-C-KF-A1

## Technical Specification

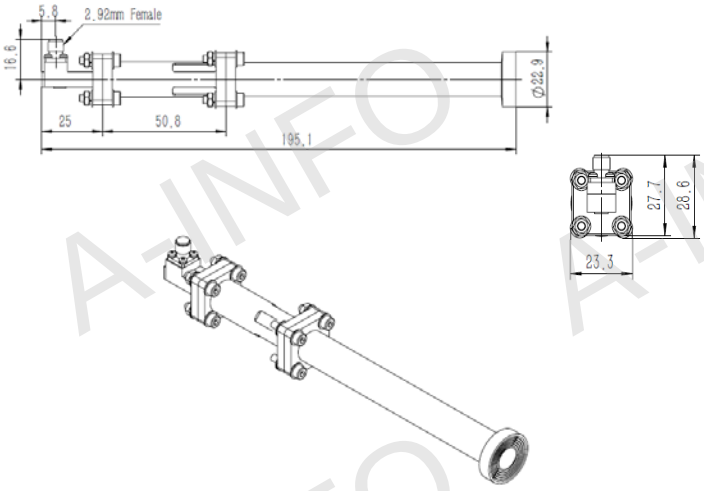
| | | |
|---|---|---|
| **Frequency Range(GHz)** | 22.0 – 33.0 | |
| **Waveguide** | WR34 | |
| **Gain (dBi)** | 10 Typ. | |
| **Polarization** | Linear | |
| **3dB Beamwidth(deg)** | E Plane: | 55 Typ. |
| | H Plane: | 57 Typ. |
| **10dB Beamwidth(deg)** | E Plane: | 100 Typ. |
| | H Plane: | 105 Typ. |
| **Cross Pol. Isolation(dB)** | -45 Typ. | |
| **VSWR** | A Type: | 1.4:1 Typ. |
| | C Type: | 1.8:1 Typ. |
| **Output** | A Type: | FBP260(UBR260) |
| | C Type: | 2.92mm(K)-Female |
| **Material** | Al | |
| **Size(mm)** | A Type: | 23.3 x 24.0 x 170.1 |
| | C Type: | 23.3 x 28.6 x 195.1 |
| | A-A1: | 266.4 x 266.4 x 170.1 |
| | C-KF-A1: | 266.4 x 266.4 x 195.1 |
| **Net Weight(Kg)** | A Type: | 0. 10 Around |
| | C Type: | 0.13 Around |
| | A Type: | 1. 21 Around |
| | C Type: | 1.24 Around |

## Outline Drawing(Size: mm)

A Type (With FBP260 Output)




C Type w/ K-Female Output



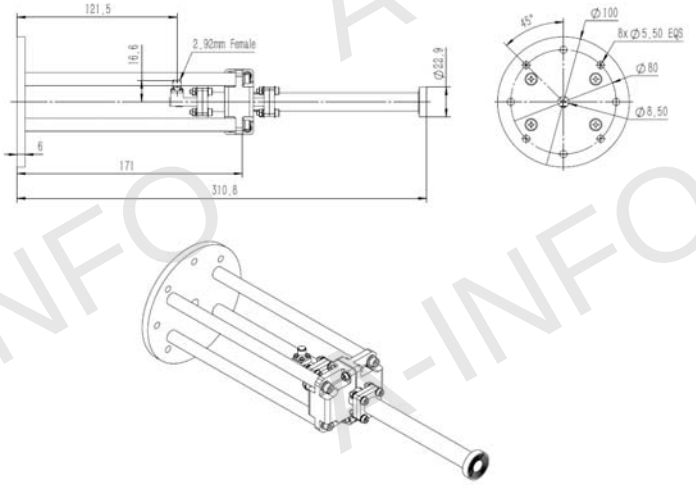



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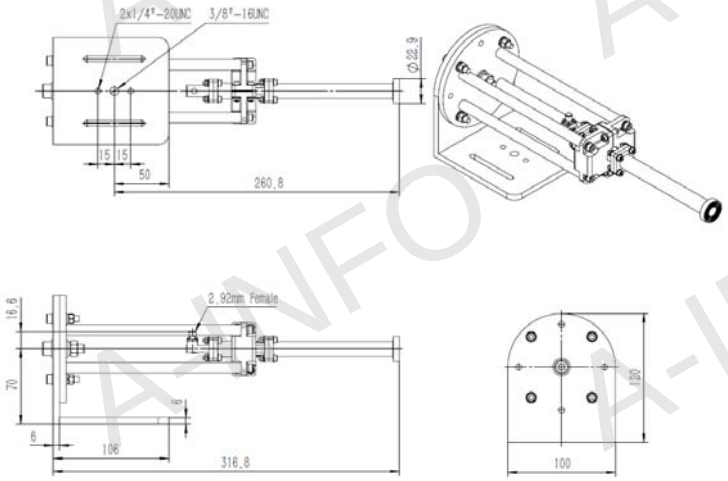
# Corrugated Feed Horn Antenna 22.0~33.0GHz(continued)

## P/N: LB-ACH-34-10

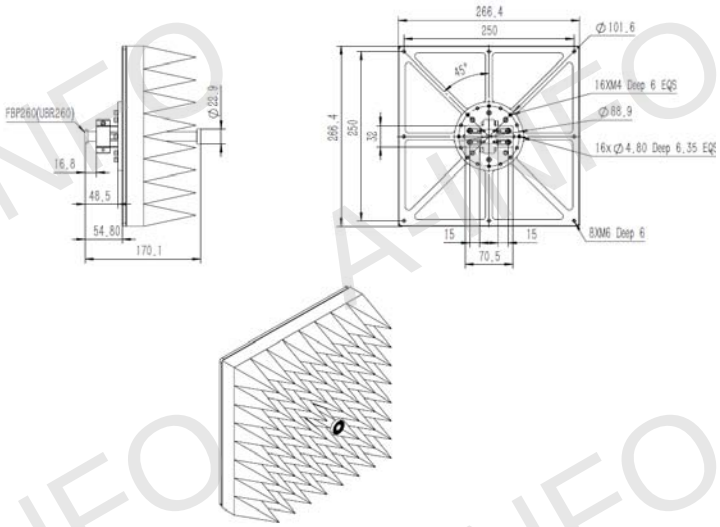
C Type w/ K-Female Output & Round Mounting Bracket



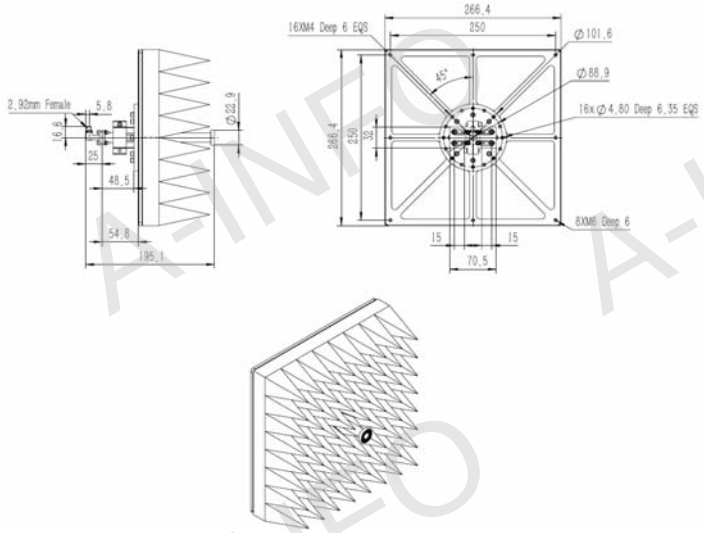

C Type w/ K-Female Output & L Type Mounting Bracket



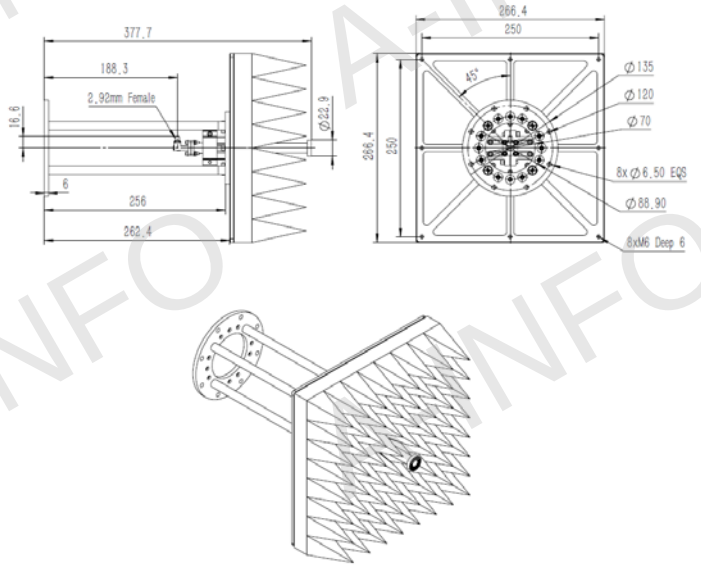

A-A1 Type w/ FBP260 Output, Equipped w/ Absorber



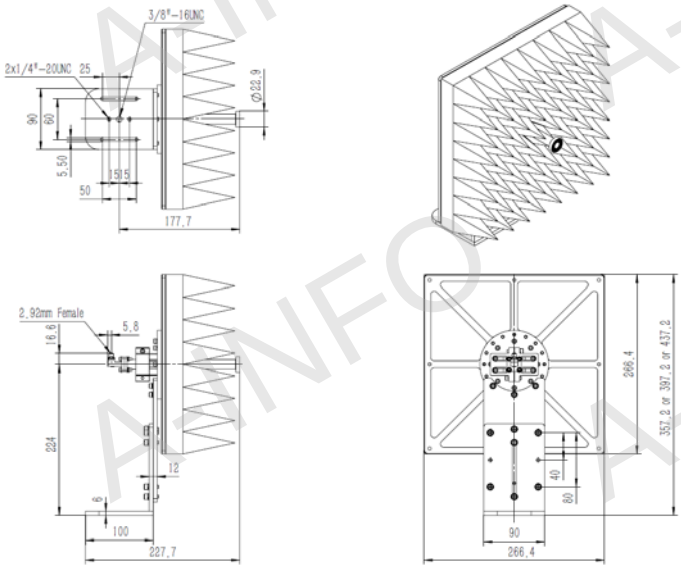

C-KF-A1 Type w/ K-Female Output, Equipped w/ Absorber




C-KF-A1 Type w/ K-Female Output & Round Mounting Bracket, Equipped w/ Absorber




C-KF-A1 Type w/ K-Female Output & L Type Mounting Bracket, Equipped w/ Absorber



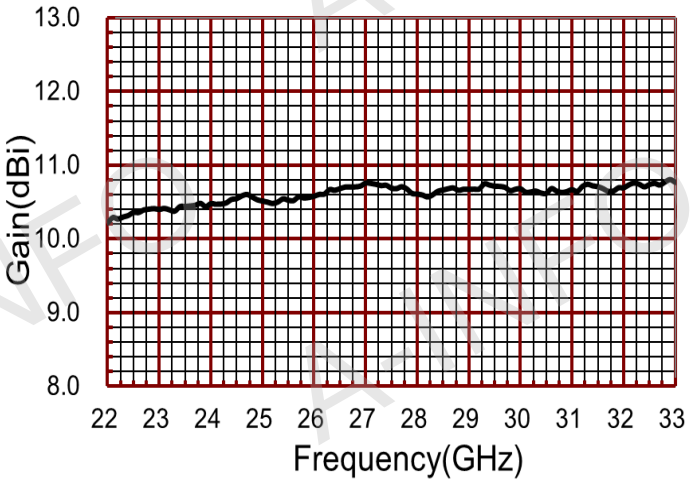



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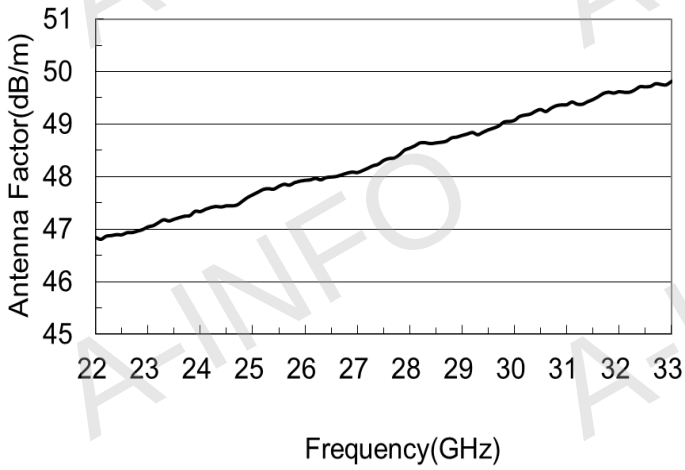
# Corrugated Feed Horn Antenna 22.0~33.0GHz(continued)

**P/N: LB-ACH-34-10**

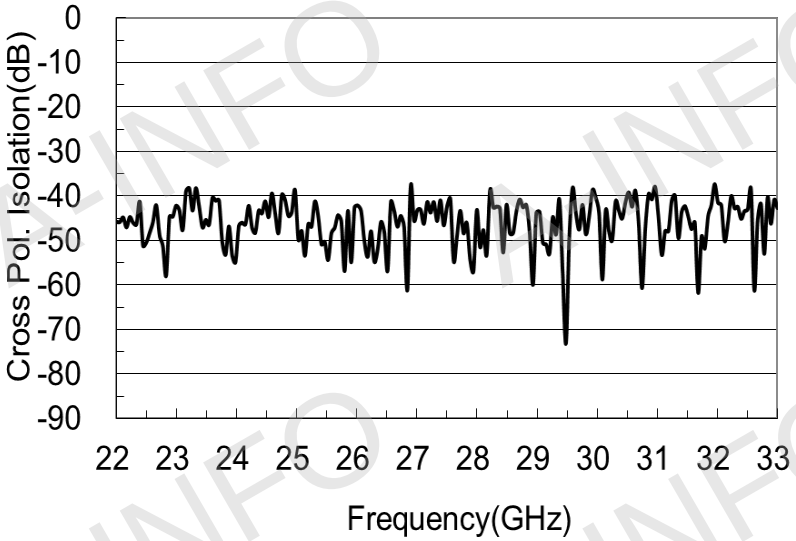
## Gain



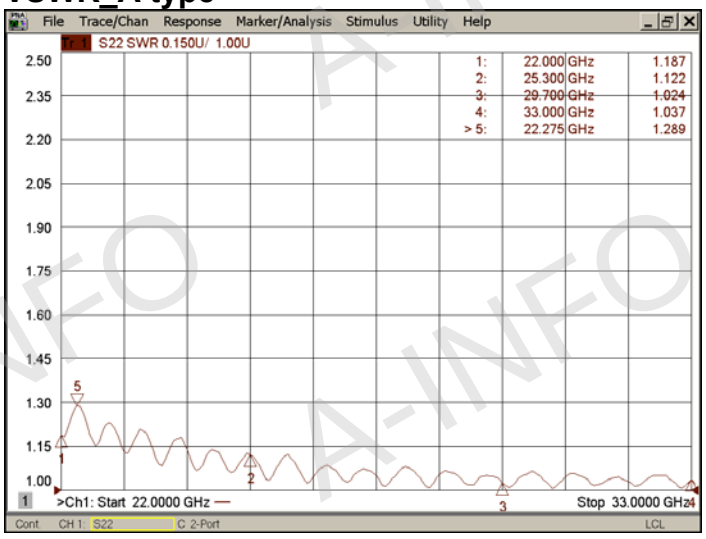

## Antenna Factor



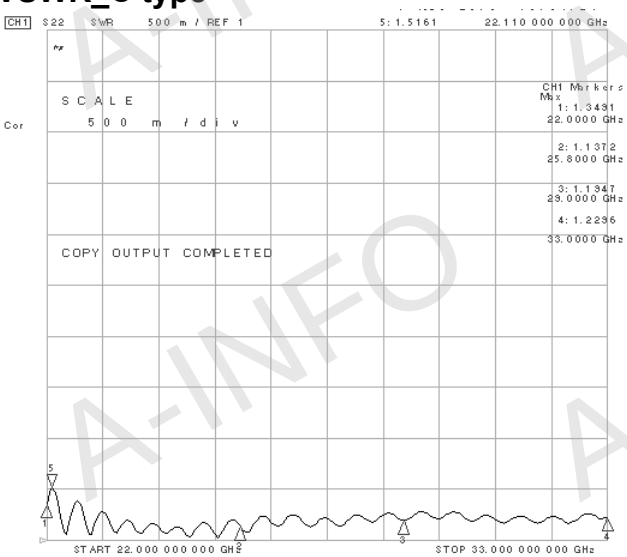

## Cross Polarization Isolation




## VSWR_A type




## VSWR_C type



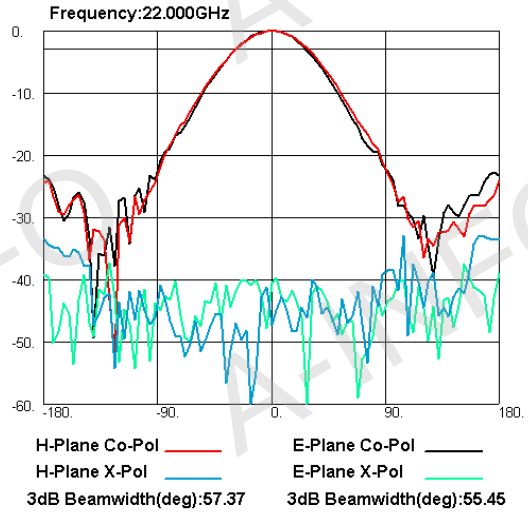


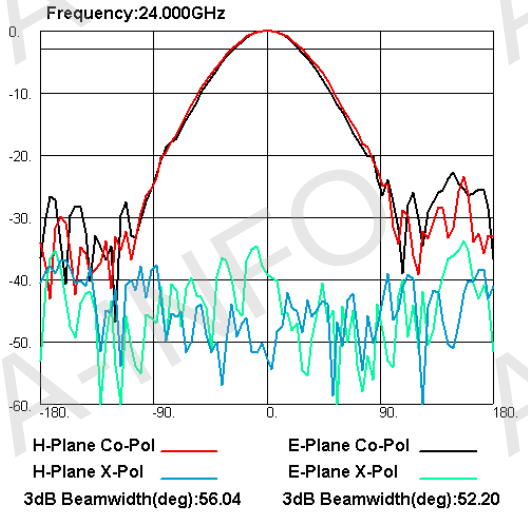

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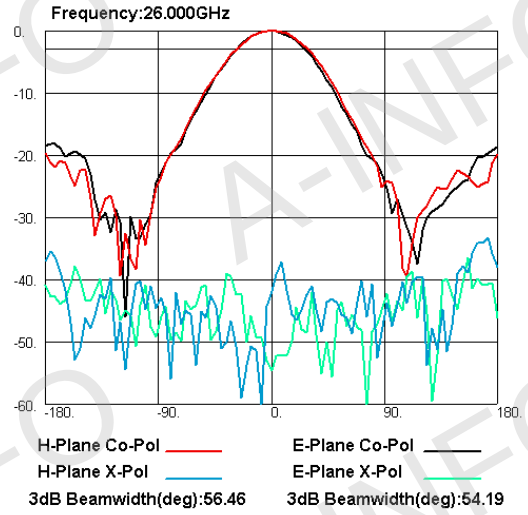
# Corrugated Feed Horn Antenna 22.0~33.0GHz(continued)

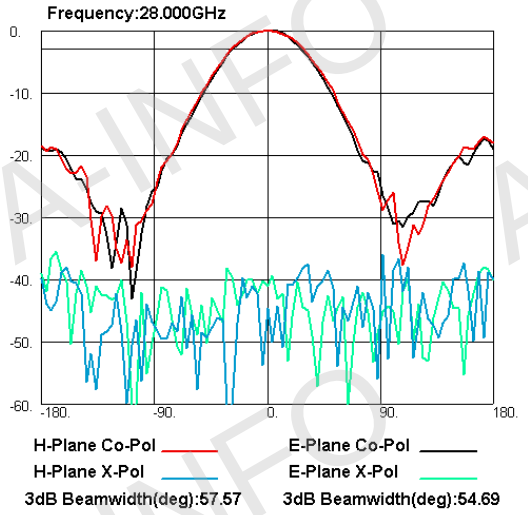
## P/N: LB-ACH-34-10

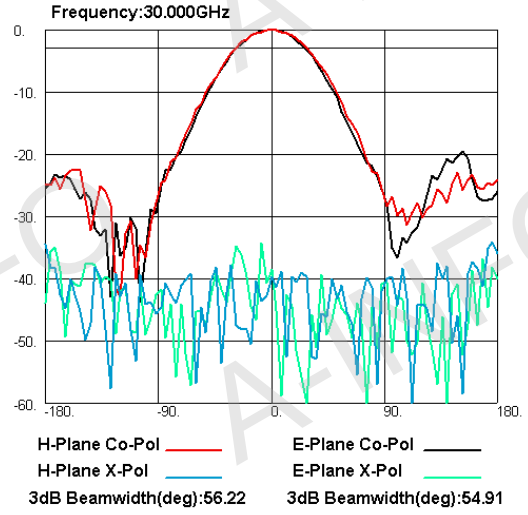
### Pattern

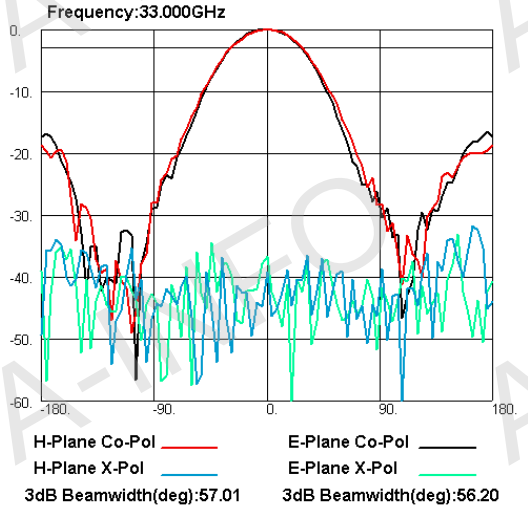





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# Lens Horn Antenna



- **Applications Include:**

| | |
|---|---|
| MVDS(Multipoint Video Distribution Systems) | Point to Point Radio Links |
| LMDS(Local Multipoint Distribution Services) | Vehicle Anti-collision Radars |
| Traffic Control Systems | Traffic Tolling Systems |
| Secure Communications Systems | Short Range Radar |
| Electro-Magnetic Compatibility(EMC) Measurements | Radiation Monitoring Systems |
| Compact/Mobile Systems | Dual Polarized Systems |

- **Features**

| | |
|---|---|
| Models up to 112GHz | Linear, dual and circular polarization |
| Optional Protective membrane | Rectangular or circular feed |
| Ideally suited for small and large quantities | Choice of mounting configurations |
| Customization available | Choice of waveguide to coaxial adapter<br>http://www.ainfoinc.com/en/p_wr_wca.asp |



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Model Information

| | | | | | |
|---|---|---|---|---|---|
| Example Part Number: | LB-CL | -112 | -10 | -C | -SF |
| Product Code | | | | | |
| Waveguide Size: WR112 - WR10 | | | | | |
| Frequency & Gain Code | | | | | |
| Figure Type:<br>-A: Waveguide Output<br>-C: Coaxial Output. Connector type below needs to be specified | | | | | |
| Figure C Connector Type Option:<br>7/16F=7/16 DIN Female;<br>NF=N Type-Female; NM=N Type-Male;<br>SF=SMA-Female; SM=SMA-Male;<br>3.5F=3.5mm-Female; 3.5M=3.5mm-Male;<br>KF=2.92mm-Female; KM=2.92mm-Male;<br>2.4F=2.4mm-Female; 2.4M=2.4mm-Male;<br>1.85F=1.85mm-Female; 1.85M=1.85mm-Male | | | | | |

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Lens Horn Antenna and download.*

| Model | Frequency (GHz) | WR | Pol. | Gain (dB) | VSWR Max | Figure | Nominal 3dB Beamwidth (°) | | Dia-meter (mm) | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E-Plane | H-Plane | | |
| LB-CL-112-10-A | 7.9-8.5 | WR112 | Linear | 20.5 | 1.5 | A | 14.9 | 17.4 | 150 | FBP84 |
| LB-CL-112-10-C-XX | | | | 20.5 | 2.0 | C | 14.9 | 17.4 | 150 | NF/SF |
| LB-CL-112-20-A | 7.9-8.5 | WR112 | Linear | 25.0 | 1.5 | A | 9.0 | 10.5 | 250 | FBP84 |
| LB-CL-112-20-C-XX | | | | 25.0 | 2.0 | C | 9.0 | 10.5 | 250 | NF/SF |
| | | | | | | | | | | |
| LB-CL-90-10-A | 8.0-8.5 | WR90 | Linear | 20.5 | 1.5 | A | 15.0 | 17.4 | 150 | FBP100 |
| LB-CL-90-10-C-XX | | | | 20.5 | 2.0 | C | 15.0 | 17.4 | 150 | SF/NF |
| LB-CL-90-20-A | 8.0-10.5 | WR90 | Linear | 21.5 | 1.5 | A | 13.3 | 15.5 | 150 | FBP100 |
| LB-CL-90-20-C-XX | | | | 21.5 | 2.0 | C | 13.3 | 15.5 | 150 | SF/NF |
| LB-CL-90-30-A | 10.0-10.5 | WR90 | Linear | 22.5 | 1.5 | A | 12.0 | 14.0 | 150 | FBP100 |
| LB-CL-90-30-C-XX | | | | 22.5 | 2.0 | C | 12.0 | 14.0 | 150 | SF/NF |
| | | | | | | | | | | |
| LB-CL-75-10-A | 12.4-12.8 | WR75 | Linear | 24.5 | 1.5 | A | 9.7 | 11.3 | 150 | FBP120 |
| LB-CL-75-10-C-XX | | | | 24.5 | 2.0 | C | 9.7 | 11.3 | 150 | SF/NF |
| | | | | | | | | | | |
| LB-CL-62-10-A | 15.2-16.0 | WR62 | Linear | 26.0 | 1.5 | A | 7.9 | 9.2 | 150 | FBP140 |
| LB-CL-62-10-C-XX | | | | 26.0 | 2.0 | C | 7.9 | 9.2 | 150 | SF/NF |
| LB-CL-62-20-A | 16.4-17.6 | WR62 | Linear | 27.0 | 1.5 | A | 7.2 | 8.4 | 150 | FBP140 |
| LB-CL-62-20-C-XX | | | | 27.0 | 2.0 | C | 7.2 | 8.4 | 150 | SF/NF |
| | | | | | | | | | | |
| LB-CL-42-10-A | 17.7-19.7 | WR42 | Linear | 24.5 | 1.5 | A | 9.1 | 10.7 | 100 | FBP220 |
| LB-CL-42-10-C-XX | | | | 24.5 | 2.0 | C | 9.1 | 10.7 | 100 | SF/KF/3.5F |



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| Model | Frequency (GHz) | WR | Pol. | Gain (dB) | VSWR Max | Figure | Nominal 3dB Beamwidth (°) | | Dia-meter (mm) | Output |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E-Plane | H-Plane | | |
| LB-CL-42-20-A | 17.7-19.7 | WR42 | Linear | 29.0 | 1.5 | A | 5.2 | 6.1 | 175 | FBP220 |
| LB-CL-42-20-C-XX | | | | 29.0 | 2.0 | C | 5.2 | 6.1 | 175 | SF/KF/3.5F |
| LB-CL-42-30-A | 17.7-19.7 | WR42 | Linear | 32.4 | 1.5 | A | 3.7 | 4.3 | 250 | FBP220 |
| LB-CL-42-30-C-XX | | | | 32.4 | 2.0 | C | 3.7 | 4.3 | 250 | SF/KF/3.5F |
| LB-CL-42-40-A | 21.2-23.6 | WR42 | Linear | 26.0 | 1.5 | A | 7.8 | 9.1 | 100 | FBP220 |
| LB-CL-42-40-C-XX | | | | 26.0 | 2.0 | C | 7.8 | 9.1 | 100 | SF/KF/3.5F |
| LB-CL-42-50-A | 21.2-23.6 | WR42 | Linear | 27.5 | 1.5 | A | 6.2 | 7.2 | 125 | FBP220 |
| LB-CL-42-50-C-XX | | | | 27.5 | 2.0 | C | 6.2 | 7.2 | 125 | SF/KF/3.5F |
| LB-CL-42-60-A | 21.2-23.6 | WR42 | Linear | 29.3 | 1.5 | A | 5.3 | 6.1 | 150 | FBP220 |
| LB-CL-42-60-C-XX | | | | 29.3 | 2.0 | C | 5.3 | 6.1 | 150 | SF/KF/3.5F |
| LB-CL-42-70-A | 21.2-23.6 | WR42 | Linear | 33.5 | 1.5 | A | 3.1 | 3.6 | 250 | FBP220 |
| LB-CL-42-70-C-X | | | | 33.5 | 2.0 | C | 3.1 | 3.6 | 250 | SF/KF/3.5F |
| LB-CL-42-80-A | 21.2-26.5 | WR42 | Linear | 34.5 | 1.5 | A | 3.0 | 3.5 | 294 | FBP220 |
| LB-CL-42-80-C-XX | | | | 34.5 | 2.0 | C | 3.0 | 3.5 | 294 | SF/KF/3.5F |
| | | | | | | | | | | |
| LB-CL-28-10-A | 27.5-29.5 | WR28 | Linear | 31.5 | 1.5 | A | 4.1 | 4.7 | 150 | FBP320 |
| LB-CL-28-10-C-XX | | | | 31.5 | 2.0 | C | 4.1 | 4.7 | 150 | KF/2.4F |
| LB-CL-28-20-A | 27.5-29.5 | WR28 | Linear | 36.0 | 1.5 | A | 2.4 | 2.8 | 250 | FBP320 |
| LB-CL-28-20-C-XX | | | | 36.0 | 2.0 | C | 2.4 | 2.8 | 250 | KF/2.4F |
| LB-CL-28-30-A | 31.0-31.8 | WR28 | Linear | 32.0 | 1.5 | A | 3.9 | 4.6 | 150 | FBP320 |
| LB-CL-28-30-C-XX | | | | 32.0 | 2.0 | C | 3.9 | 4.6 | 150 | KF/2.4F |
| LB-CL-28-C20 | 35.0-35.2 | WR28 | LHCP | 28.0 | 1.3 | - | 4.8 | 6.5 | 119 | Customized |
| LB-CL-28-40-A | 37.5-39.5 | WR28 | Linear | 34.0 | 1.5 | A | 3.1 | 3.7 | 150 | FBP320 |
| LB-CL-28-40-C-XX | | | | 34.0 | 2.0 | C | 3.1 | 3.7 | 150 | KF/2.4F |
| LB-CL-28-50-A | 37.5-39.5 | WR28 | Linear | 38.5 | 1.5 | A | 1.8 | 2.1 | 250 | FBP320 |
| LB-CL-28-50-C-XX | | | | 38.5 | 2.0 | C | 1.8 | 2.1 | 250 | KF/2.4F |
| | | | | | | | | | | |
| LB-CL-19-10-A | 40.5-42.5 | WR19 | Linear | 34.5 | 1.5 | A | 2.8 | 3.2 | 150 | FUGP500 |
| LB-CL-19-10-C-XX | | | | 34.5 | 2.0 | C | 2.8 | 3.2 | 150 | 1.85F |
| | | | | | | | | | | |
| LB-CL-15-10-A | 54.2-57.2 | WR15 | Linear | 36.0 | 1.5 | A | 2.4 | 2.8 | 130 | FUGP600 |
| LB-CL-15-10-C-XX | | | | 36.0 | 2.0 | C | 2.4 | 2.8 | 130 | 1.85F |
| LB-CL-15-20-A | 54.2-57.2 | WR15 | Linear | 38.5 | 1.5 | A | 1.8 | 2.1 | 175 | FUGP600 |
| LB-CL-15-20-C-XX | | | | 38.5 | 2.0 | C | 1.8 | 2.1 | 175 | 1.85F |
| LB-CL-15-30-A | 57.2-58.2 | WR15 | Linear | 36.5 | 1.5 | A | 2.4 | 2.9 | 130 | FUGP600 |
| LB-CL-15-30-C-XX | | | | 36.5 | 2.0 | C | 2.4 | 2.9 | 130 | 1.85F |
| LB-CL-15-40-A | 57.2-58.2 | WR15 | Linear | 37.5 | 1.5 | A | 2.1 | 2.5 | 150 | FUGP600 |
| LB-CL-15-40-C-XX | | | | 37.5 | 2.0 | C | 2.1 | 2.5 | 150 | 1.85F |
| LB-CL-15-50-A | 57.2-58.2 | WR15 | Linear | 42.0 | 1.5 | A | 1.2 | 1.4 | 250 | FUGP600 |
| LB-CL-15-50-C-XX | | | | 42.0 | 2.0 | C | 1.2 | 1.4 | 250 | 1.85F |
| LB-CL-15-60-A | 59.0-64.0 | WR15 | Linear | 34.5 | 1.5 | A | 2.9 | 3.4 | 100 | FUGP600 |
| LB-CL-15-60-C-XX | | | | 34.5 | 2.0 | C | 2.9 | 3.4 | 100 | 1.85F |
| | | | | | | | | | | |
| LB-CL-12-10-A | 75.0-80.0 | WR12 | Linear | 40.0 | 1.5 | A | 1.6 | 1.8 | 150 | FUGP740 |
| LB-CL-12-20-A | 75.0-80.0 | WR12 | Linear | 42.5 | 1.5 | A | 1.2 | 1.4 | 200 | FUGP740 |
| | | | | | | | | | | |
| LB-CL-10-10-A | 93.5-95.5 | WR10 | Linear | 46.5 | 1.5 | A | 0.8 | 0.9 | 250 | FUGP900 |



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# Lens Horn Antenna 21.2~26.5GHz

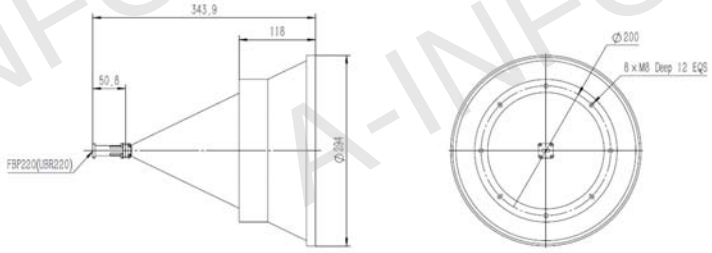
**P/N: LB-CL-42-80**

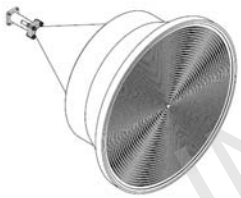


| | | |
|---|---|---|
| **Frequency Range(GHz)** | 21.2 - 26.5 | |
| **Waveguide** | WR42 | |
| **Gain(dBi)** | 34.5 Typ. | |
| **Polarization** | Linear | |
| **3dB Beamwidth(deg)** | E-Plane: | 3.0 Typ. |
| | H-Plane: | 3.5 Typ. |
| **VSWR** | A Type: | 1.5:1 Max. |
| | C Type: | 2.0:1 Max. |
| **Output** | A Type: | FBP220(UBR220) |
| | C Type: | SMA-Female or 2.92mm-Female or 3.5mm-Female |
| **Material** | Al | |
| **Size(mm)** | A Type: | Φ294 x 343.9 |
| | C Type: | Φ294 x 378.9 |
| **Net Weight(Kg)** | A Type: | 6.71 Around |
| | C Type: | 6.77 Around |

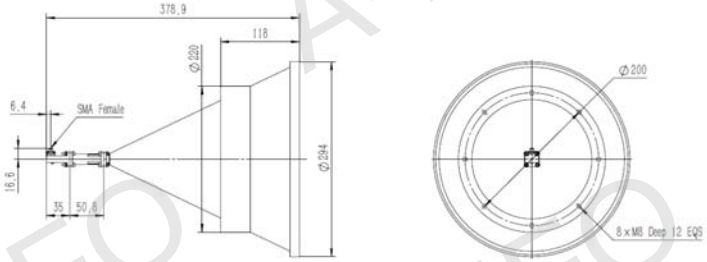
**Outline Drawing (Size:mm)** For 2.92mm-Female output outline drawing, please contact A-INFO.

A Type (With FBP220 Output)



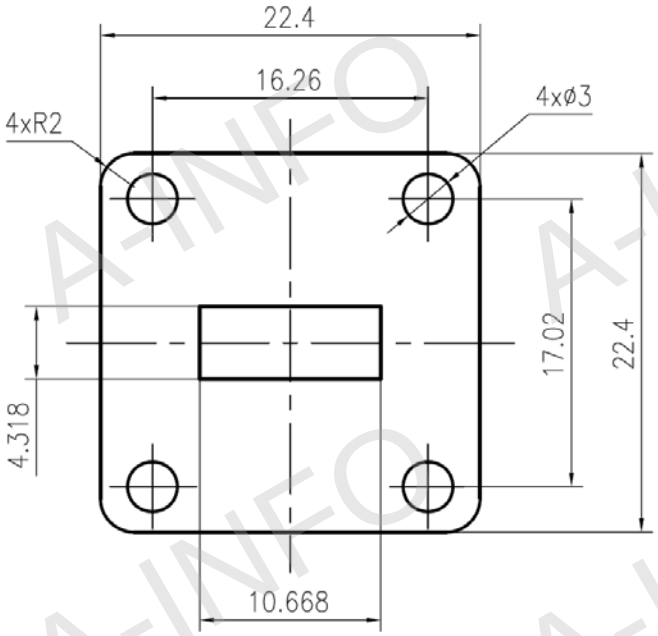
C Type (With SMA-Female Output)






## Flange Drawing (Size: mm)




FBP220

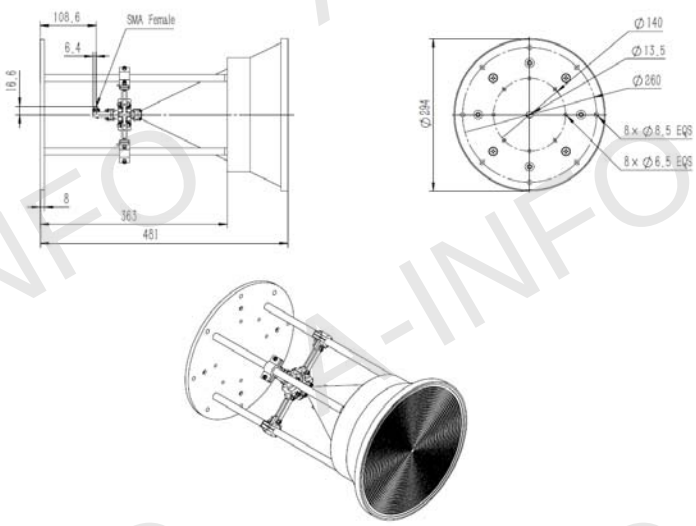


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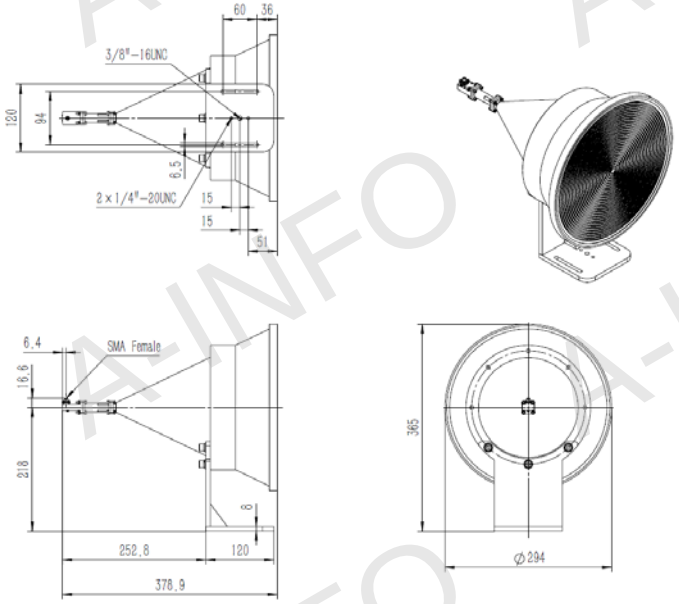
# Lens Horn Antenna 21.2~26.5GHz(continued)

## P/N: LB-CL-42-80

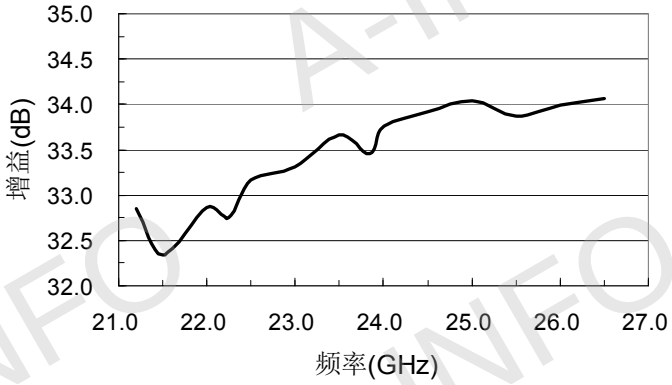
C Type (W/ SMA-F Output & Round Mounting Bracket)



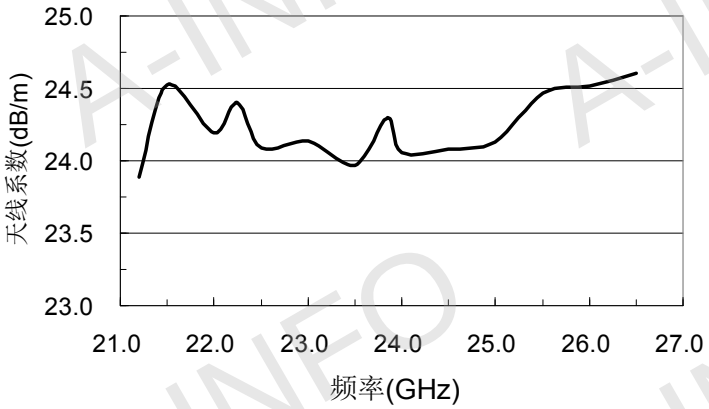

C Type (W/ SMA-F Output & L Type Mounting Bracket)



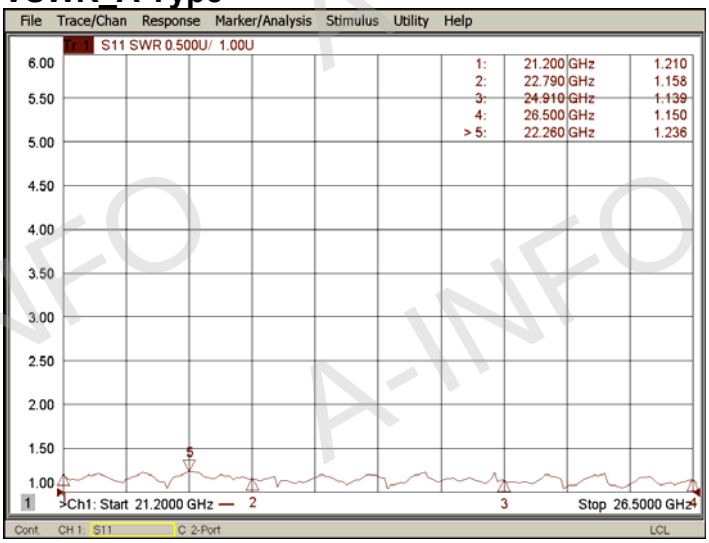

## Gain



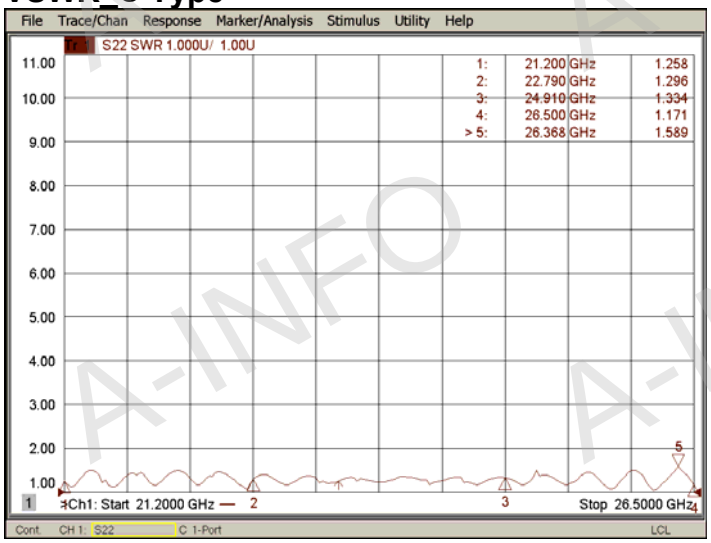

## Antenna Factor




## VSWR_A Type




## VSWR_C Type





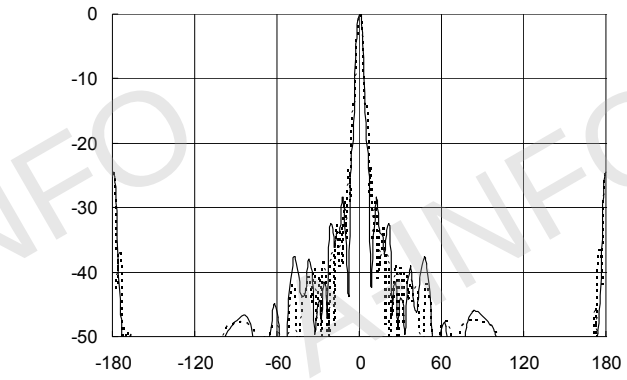

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# Lens Horn Antenna 21.2~26.5GHz(continued)

**P/N: LB-CL-42-80**

**Pattern**

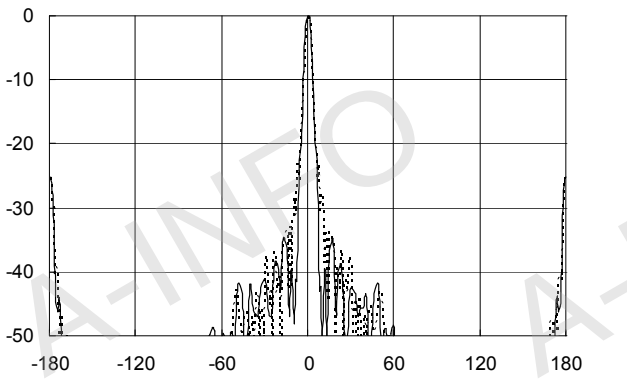
21.2GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 4.07 3dB Beamwidth (deg): 3.01

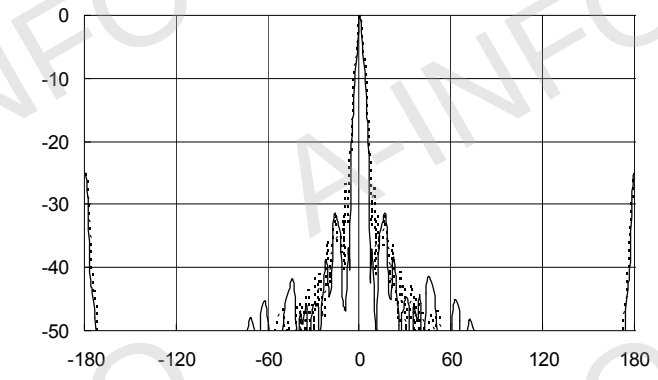
23.85GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 3.93 3dB Beamwidth (deg): 2.91

26.5GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 3.20 3dB Beamwidth (deg): 2.65



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# Lens Horn Antenna 35.0~35.2GHz

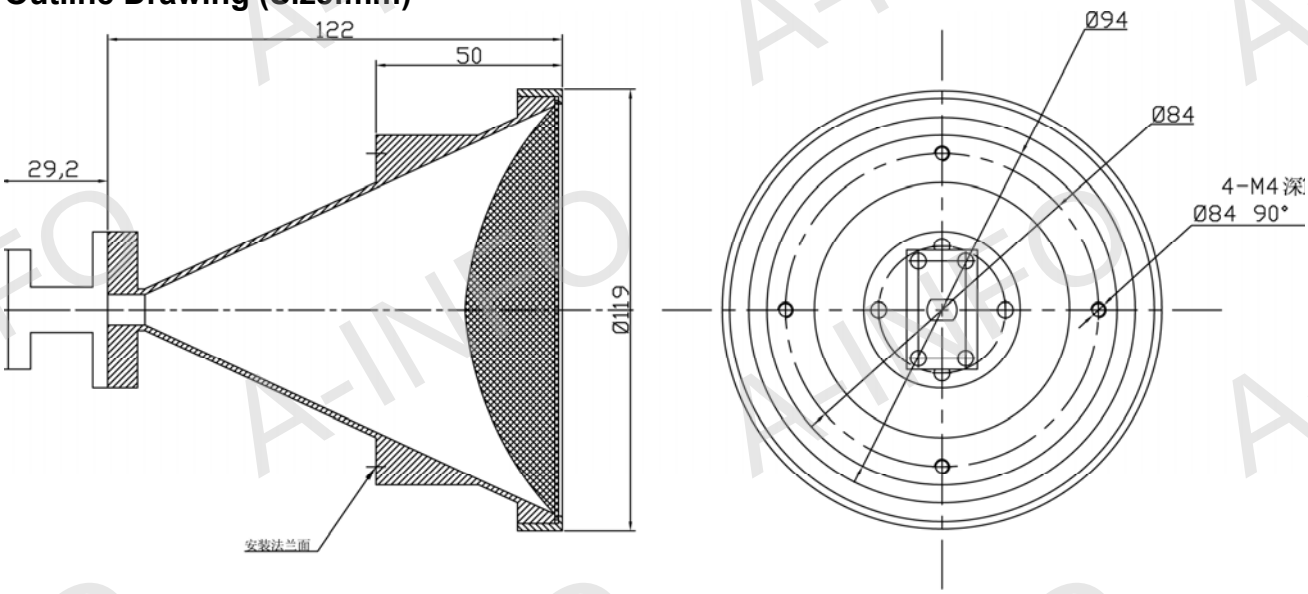
## P/N: LB-CL-28-C20



## Technical Specification

| | |
|---|---|
| Polarization | LHCP |
| Frequency(GHz) | 35.0-35.2 |
| Gain (dB) | 28 Typ. |
| VSWR | 1.3 :1 Typ. |
| Flange | Customized |
| Size(mm) | Φ119x151.2 |
| Net Weight | 0.6Kg Approx. |

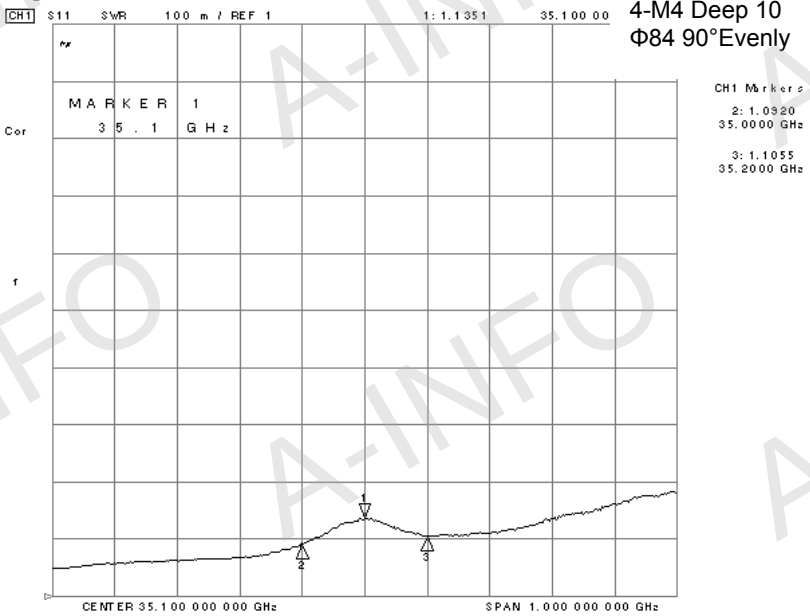
## Outline Drawing (Size:mm)




## Gain

| Frequency(GHz) | Gain(dB) |
|---|---|
| 35.0 | 29.01 |
| 35.1 | 28.55 |
| 35.2 | 29.40 |

## VSWR




4-M4 Deep 10
Φ84 90°Evenly



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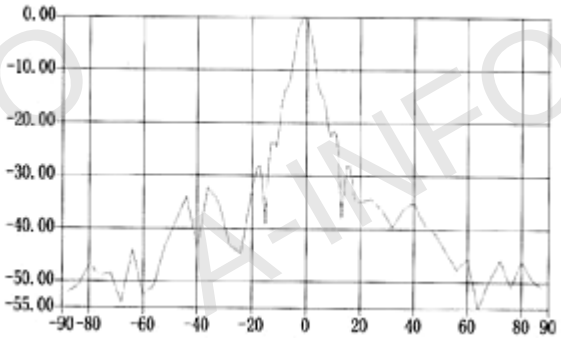
# Lens Horn Antenna 35.0~35.2GHz(continued)

**P/N: LB-CL-28-C20**

**Pattern**

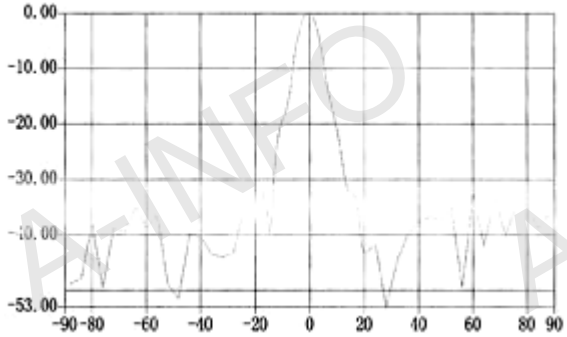
Frequency: 35.0GHz

E Plane




3dB Beamwidth: 4.73°

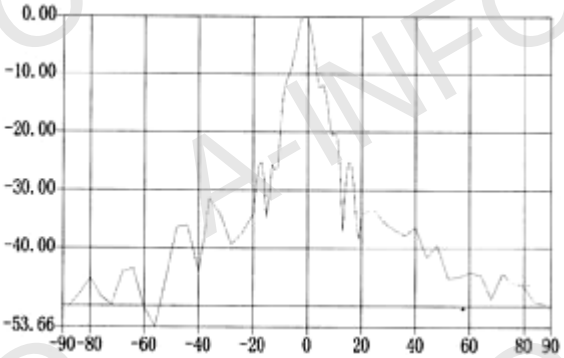
H Plane




3dB Beamwidth: 6.45°

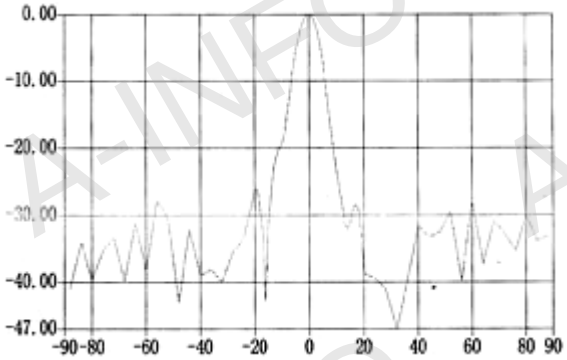
Frequency: 35.1GHz

E Plane




3dB Beamwidth: 4.83°

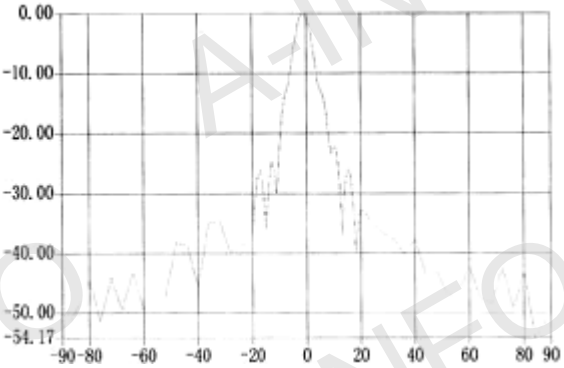
H Plane




3dB Beamwidth: 6.83°

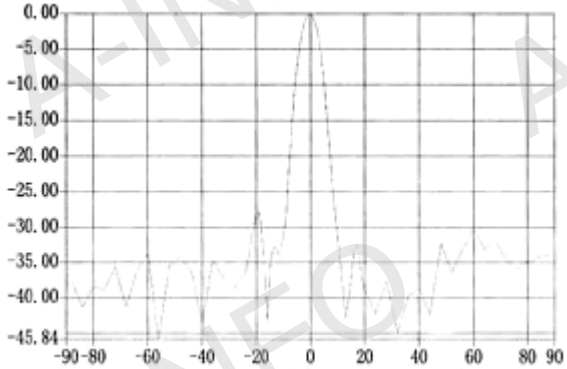
Frequency: 35.2GHz

E Plane




3dB Beamwidth: 4.90°

H Plane




3dB Beamwidth: 6.03°



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# Circular Polarization Horn Antenna



*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Circular Pol. Horn Antenna and download.*

| Model | Freq. Range (GHz) | Pol. | Gain (dBic) Typ. | VSWR Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| LB-CP-1020-NF_LHCP | 1.0-2.0 | LHCP | 10 | 2.0 | N-Female | - |
| LB-CP-1020-NF_RHCP | 1.0-2.0 | RHCP | 10 | 2.0 | N-Female | - |
| | | | | | | |
| LB-CP-2040-NF_LHCP | 2.0-4.0 | LHCP | 12 | 2.0 Max | N-Female | Φ170x687 |
| LB-CP-2040-NF_RHCP | 2.0-4.0 | RHCP | 12 | 2.0 Max | N-Female | Φ170x687 |
| | | | | | | |
| LB-CP-4080-NF_LHCP | 4.0-8.0 | LHCP | 12 | 2.0 Max | N-Female | Φ69x373.7 |
| LB-CP-4080-NF_RHCP | 4.0-8.0 | RHCP | 12 | 2.0 Max | N-Female | Φ69x373.7 |
| | | | | | | |
| LB-CP-80180-SF_LHCP | 8.0-18.0 | LHCP | 10 | 2.5 | SMA-Female | - |
| LB-CP-80180-SF_RHCP | 8.0-18.0 | RHCP | 10 | 2.5 | SMA-Female | - |
| | | | | | | |
| LB-CP-180400-KF_LHCP | 18.0-40.0 | LHCP | 10 | 3.0 | 2.92mm(K)-Female | - |
| LB-CP-180400-KF_RHCP | 18.0-40.0 | RHCP | 10 | 3.0 | 2.92mm(K)-Female | - |



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# Circular Polarization Horn Antenna 2.0~4.0GHz

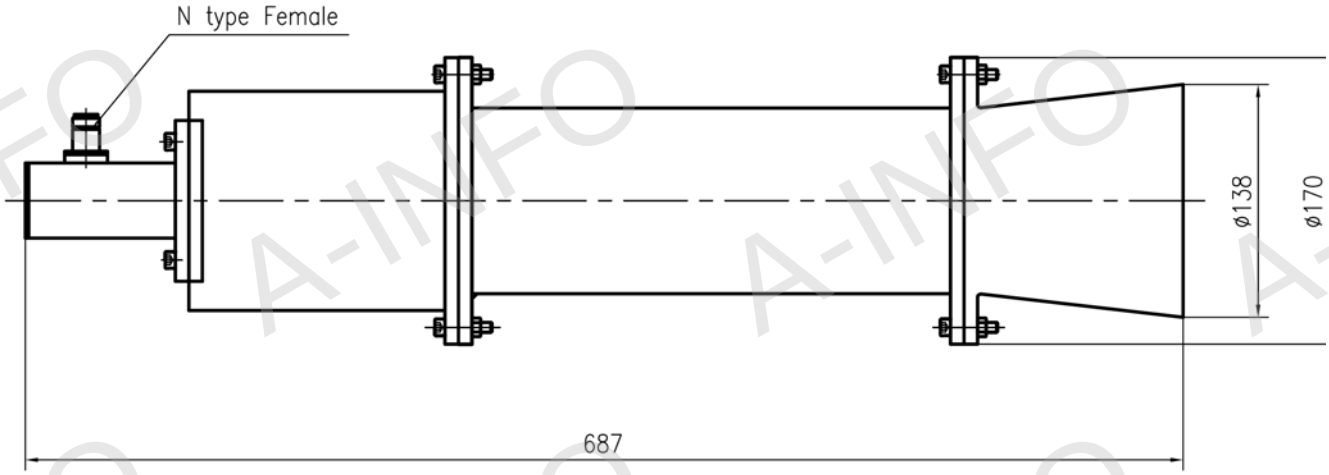
**P/N: LB-CP-2040**



## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 2.0 - 4.0 |
| Gain(dBic) | 12.0 Typ. |
| Polarization | LHCP or RHCP |
| Axial Ratio(dB) | 2.0 Typ.<br>5.0 Max |
| VSWR | 2.0:1 Max |
| Connector | N-F |
| Size(mm) | Φ170x687 |
| Net Weight(Kg) | 10.0 Around |

## Outline Drawing (Size: mm)



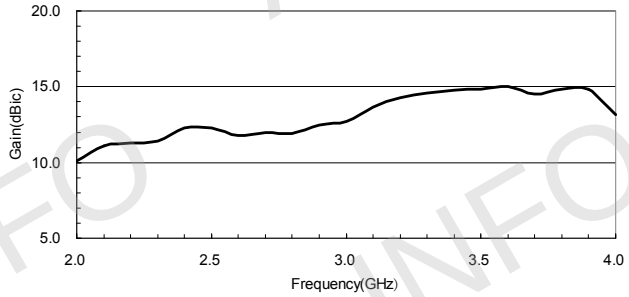



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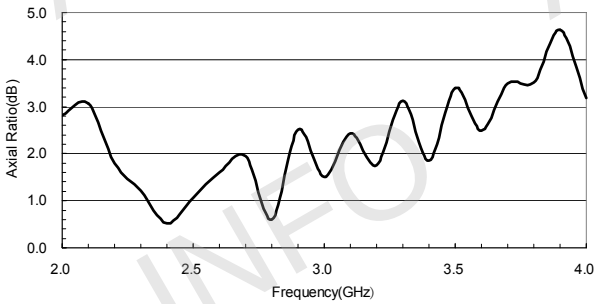
# Circular Polarization Horn Antenna 2.0~4.0GHz(continued)

**P/N: LB-CP-2040**

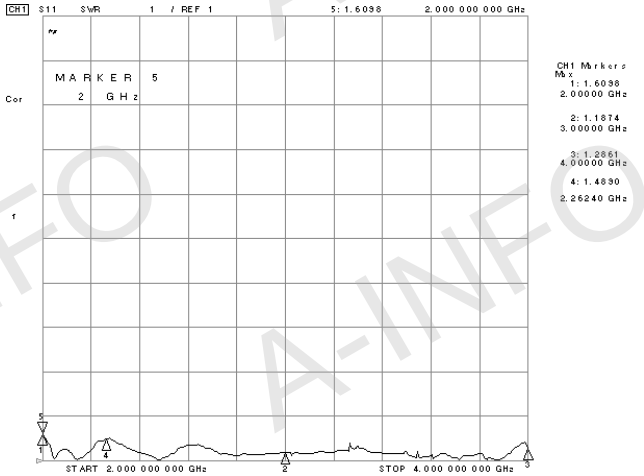
## Gain



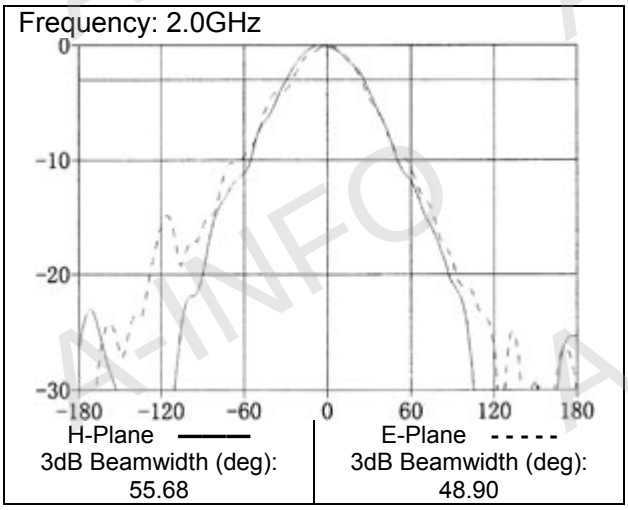

## Axial Ratio




## VSWR

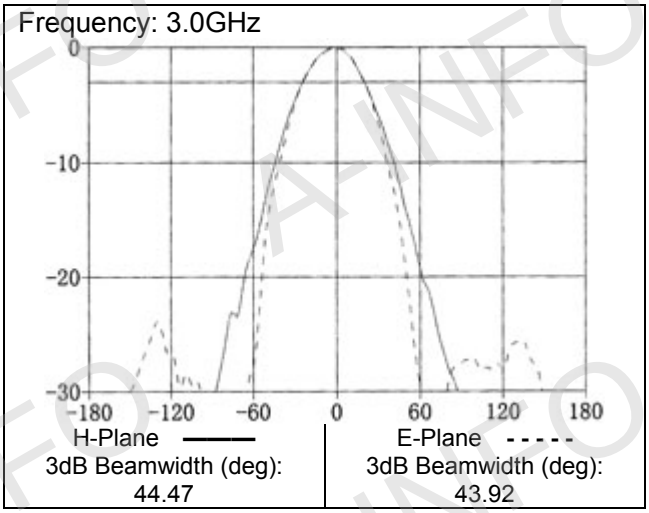



## Pattern



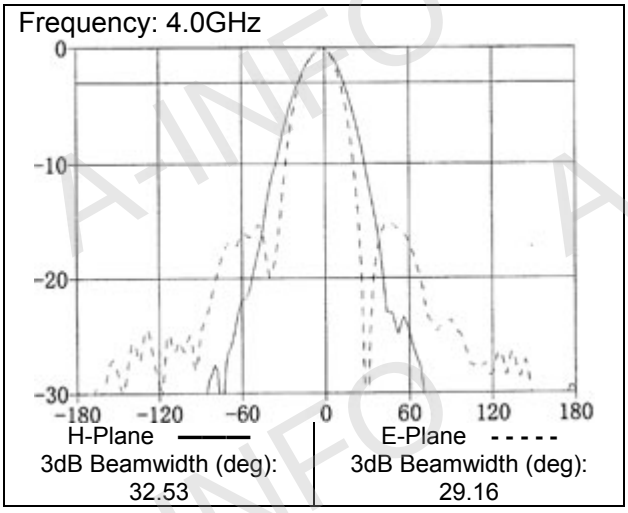

| H-Plane ——— | E-Plane - - - - - |
|---|---|
| 3dB Beamwidth (deg): 55.68 | 3dB Beamwidth (deg): 48.90 |

## Pattern




| H-Plane ——— | E-Plane - - - - - |
|---|---|
| 3dB Beamwidth (deg): 44.47 | 3dB Beamwidth (deg): 43.92 |

## Pattern




| H-Plane ——— | E-Plane - - - - - |
|---|---|
| 3dB Beamwidth (deg): 32.53 | 3dB Beamwidth (deg): 29.16 |

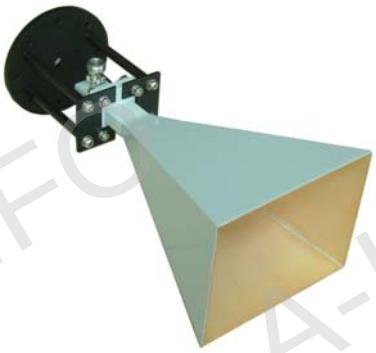


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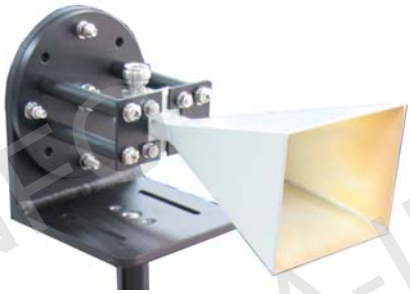
# Horn Antenna Accessories

## Mounting Bracket

1. Round type for C Type Standard Gain Horn Antenna



2. L type for C Type Standard Gain Horn Antenna



3. For Open Boundary Quad-Ridged Horn Antenna





## Tripod (For some horn antenna and some other antennas, pls. ask!)

Aluminum Alloy Tripod
(P/N:Tripod_15Kg)



Wooden Tripod
(P/N: 3033HL)



Wooden Tripod
(P/N: 3033QM)





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## Radome

1. For some Standard Gain Horn Antennas, pls. ask!
(This is LB-187-15-C-NF with Radome.)



2. For some Broadband Horn Antenna, pls. ask!
(This is LB-20180 with Radome.)



## Carrying Case (For all horns.Safe,Easy to carry and Convenient for storage.)



Customized Horn Antenna Accessories are available according to detailed requirement.



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# Cavity Backed Spiral Antenna



Our LX series cavity backed spirals are broadband antennas designed for ECM, surveillance, direction finding, telemetry, and flush mounted airborne applications. These spirals can be used as a separate component antenna or as broadband feeds for reflector Type dish antennas.

ALL LX series spiral antennas exhibit an excellent impedance match and radiation Pattern control over the broad operating bands in a compact and lightweight package. These spirals are ideally suited for amplitude matching and phase or gain tracking. The unit-to-unit uniformity and frequency independent performance is ideal for airborne monitoring receiving systems. ALL cavity backed spirals are available in **RHCP** or **LHCP**. These spirals have been designed to operate in a harsh environment and meet the extremes of the Surroundings Specification.

Also we provide specific frequency spirals antennas according to customers' requirement.

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna –Cavity Backed Spiral Antenna and download.*

| Model | Frequency ( GHz ) | Gain (dBic) Typ. | Axial Ratio (dB) Max. | VSWR Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| LX-520 | 0.5-2 | -6 | 3 | 1.5:1 | SMA-Female | Φ238x93.2 |
| LX-840 | 0.8-4 | 0 | 3 | 1.5:1 | SMA-Female | Φ154x85.4 |
| LX-880 | 0.8-8 | 0 | 3.5 | 1.5:1 | SMA-Female | Φ154x85.4 |
| LX-1080 | 1-8 | 2 | 3 | 1.5:1 | SMA-Female | Φ120x89.4 |
| LX-10180 | 1-18 | 4 | 4.5 | 2.0:1 | SMA-Female | Φ120x89.4 |
| LX-20180 | 2-18 | 0 | 3.5 | 2.0:1 | SMA-Female | Φ61.5x50 |
| LX-20180-FR | 2-18 | 2 | 3 | 2.0:1 | SMA-Female | Φ66.5x69.4 |
| LX-20180SA | 2-18 | 0 | 4 | 2.0:1 | SMA-Female | Φ55x50 |
| LX-4080 | 4-8 | 2 | 3 | 1.5:1 | SMA-Female | Φ37.5 x49.4 |
| LX-40180 | 4-18 | 3 | 3.5 | 2.0:1 | SMA-Female | Φ37.5 x49.4 |
| LX-60180 | 6-18 | 0 | 5 | 2.0:1 | SMA-Female | Φ25 x49.4 |
| LX-180265 | 18-26.5 | 0 | 3.5 | 2.0:1 | 2.92mm-Female | Φ37x34.4 |
| LX-180400 | 18-40 | 0-4 | 5.5 | 2.0:1 | 2.92mm-Female | Φ37x37.7 |



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# Cavity Backed Spiral Antenna 0.5~2.0GHz

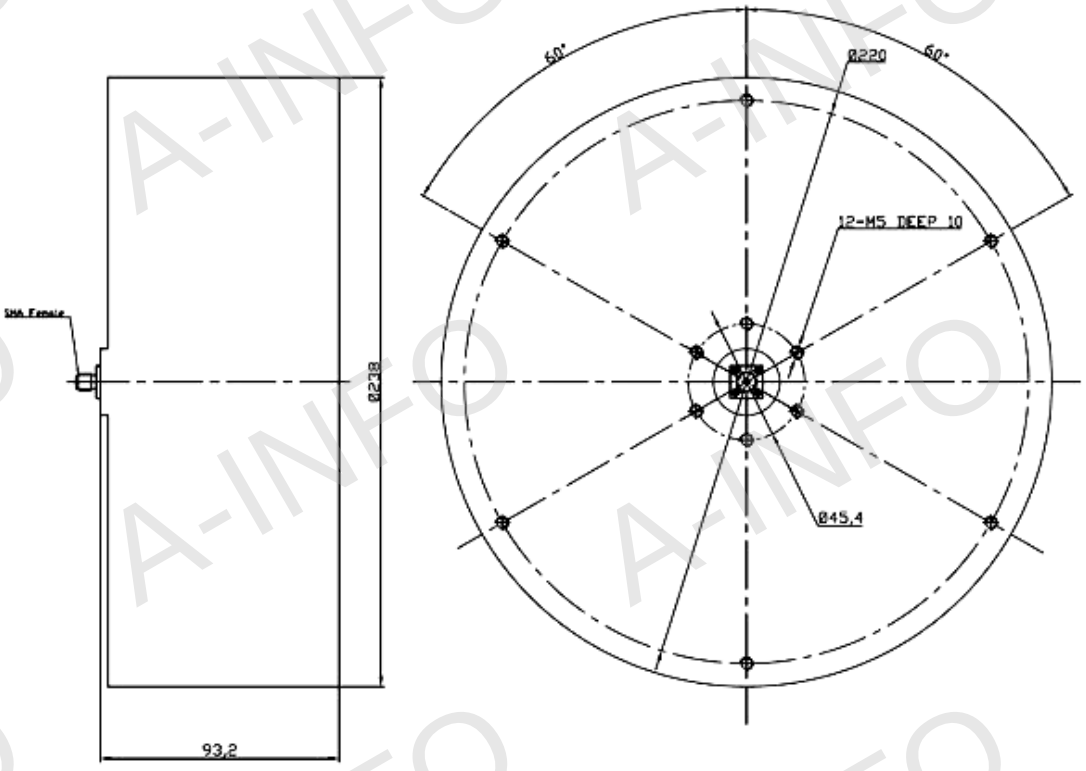
**P/N: LX-520**



## Technical Specification

| | |
|---|---|
| **Polarization** | RHCP or LHCP |
| **Frequency(GHz)** | 0.5-2.0 |
| **Gain(dBic)** | -16.10 @0.5GHz<br>-8.58 @1.0GHz<br>-6.29@1.5GHz<br>-2.46@2.0GHz |
| **3dB Beamwidth(deg)** | E:125-90 |
| | H:90-70 |
| **Axial Ratio(dB)** | 3.0 Max |
| | 1.0 Typ |
| **VSWR** | 1.5:1 Typ. |
| | 2.0:1 Max. |
| **Connector** | SMA -Female |
| **Size(mm)** | Φ238x93.2 |

## Outline Drawing and Mounting(Size: mm)



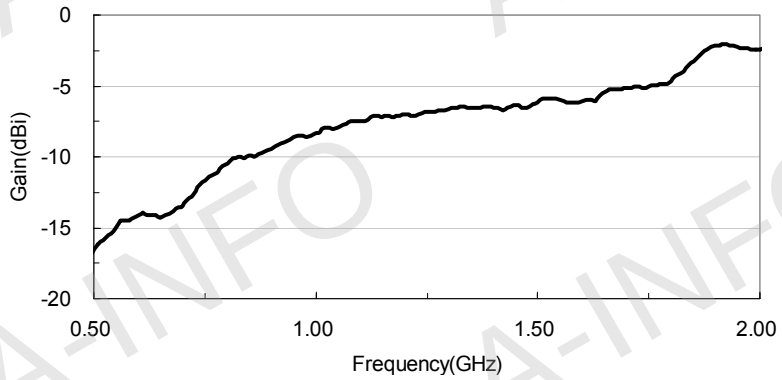



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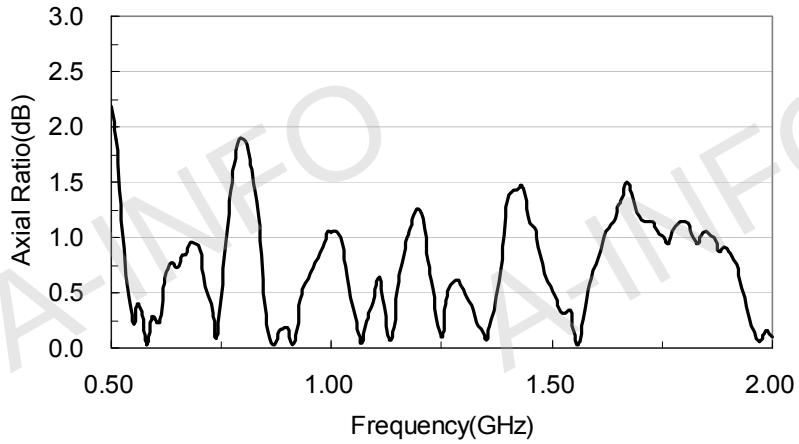
# Cavity Backed Spiral Antenna 0.5~2.0GHz(continued)

**P/N: LX-520**

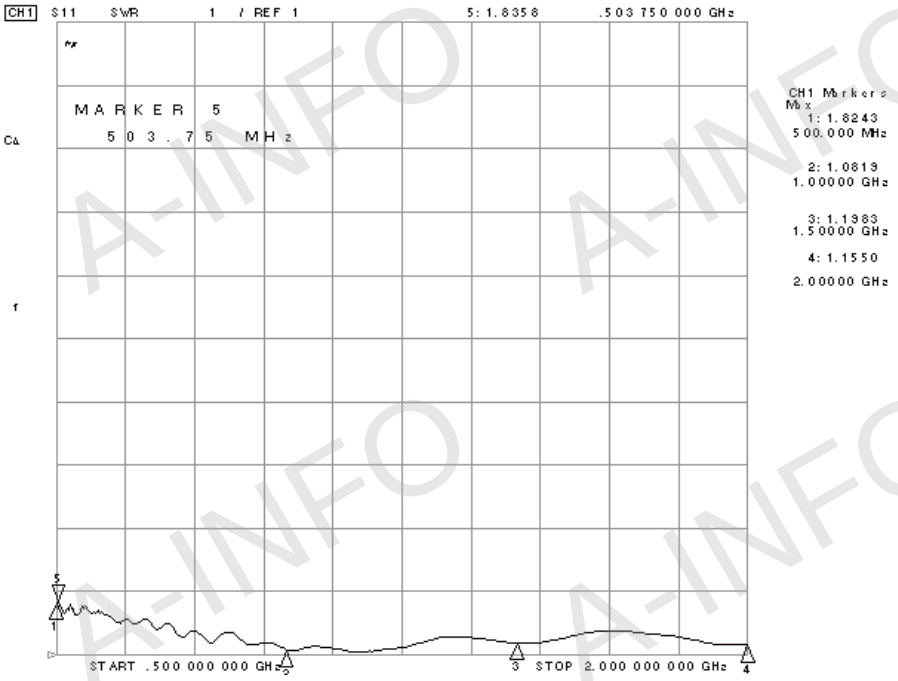
**Gain**




**Axial Ratio**




**VSWR**





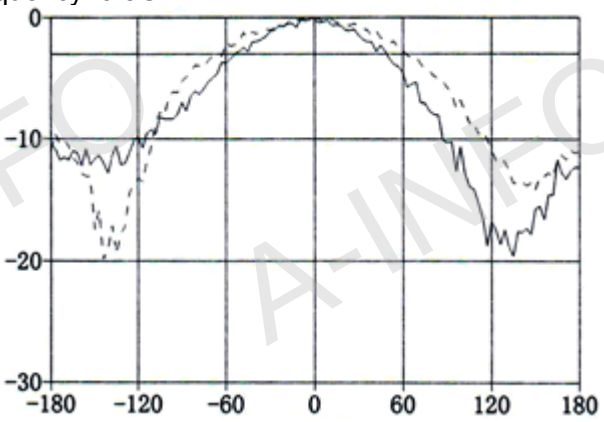

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# Cavity Backed Spiral Antenna 0.5~2.0GHz(continued)

**P/N: LX-520**

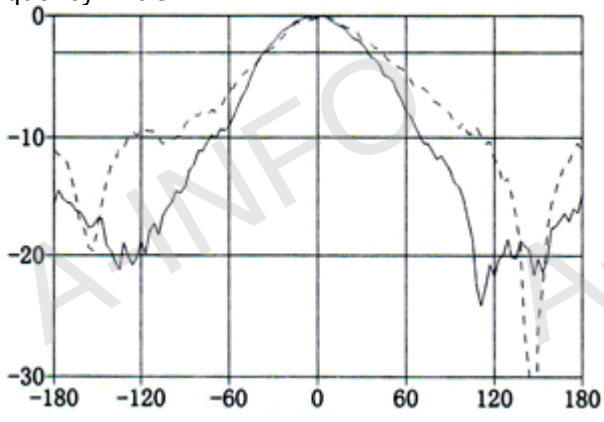
**Pattern**

Frequency: 0.5GHz



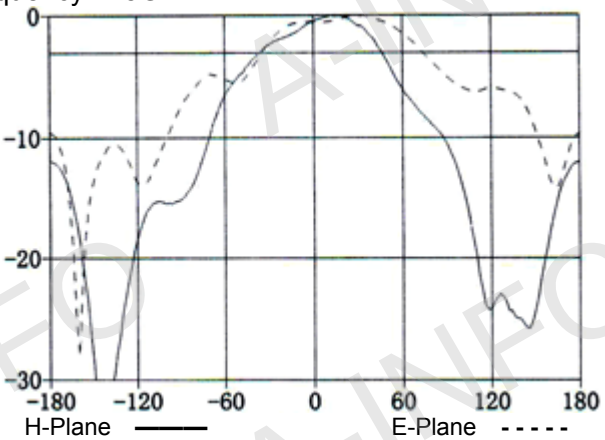

3dB Beamwidth (deg): 102.79 3dB Beamwidth (deg): 124.56

Frequency: 1.0GHz



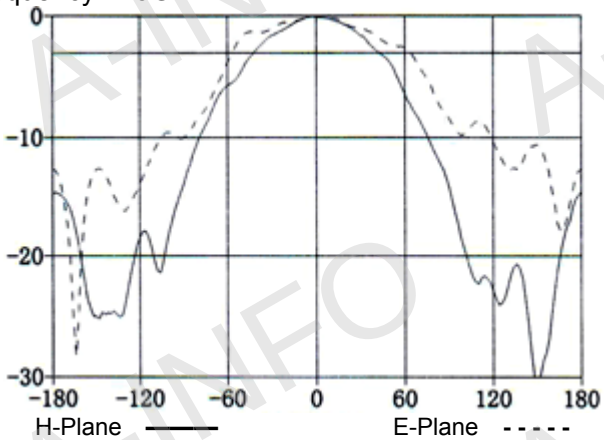

3dB Beamwidth (deg): 70.59 3dB Beamwidth (deg): 78.75

Frequency: 1.5GHz




3dB Beamwidth (deg): 82.73 3dB Beamwidth (deg): 108.37

Frequency: 2.0GHz




3dB Beamwidth (deg): 84.70 3dB Beamwidth (deg): 120.93



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# Cavity Backed Spiral Antenna 0.8~4.0GHz

**P/N: LX-840**

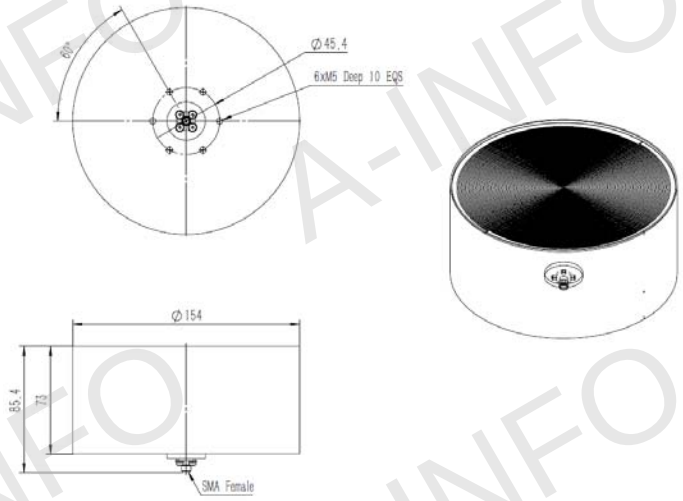


## Technical Specification

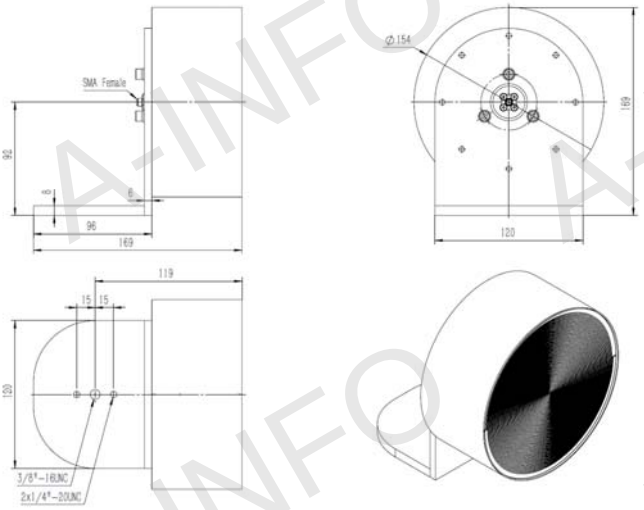
| | |
|---|---|
| Frequency Range(GHz) | 0.8-4 |
| Gain(dBic) | -9.28 @0.8GHz<br>-1.58 @2.0GHz<br>2.43 @4.0GHz |
| Polarization | RHCP or LHCP |
| Axial Ratio(dB) | 3.0 Max. |
| 3dB Beamwidth(deg) | E Plane: 115 - 65 |
| | H Plane: 105 - 65 |
| VSWR | 1.5:1 Typ. |
| | 2.0:1 Max. |
| Connector | SMA-Female |
| Size(mm) | Φ154.0 x 85.4 |
| Net weight(Kg) | 0.8 Around |

## Outline Drawing and Mounting(Size: mm)

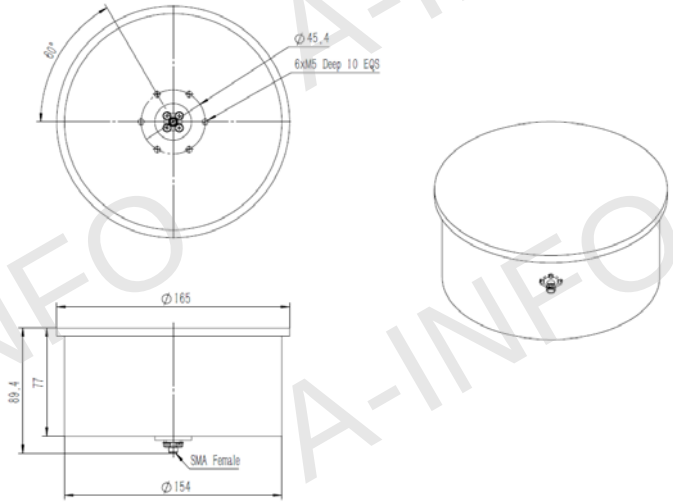
With SMA-Female Output



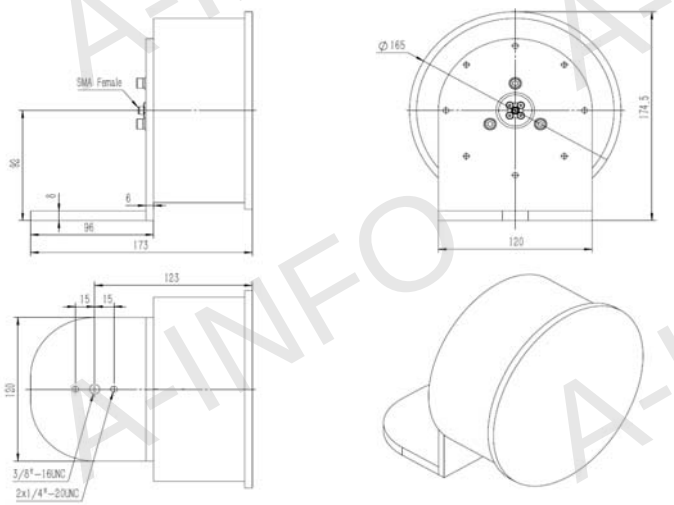

With SMA-Female Output & L Type Mounting Bracket




With SMA-Female Output & Radome




W/ SMA-F Output,L Type Mounting Bracket&Radome



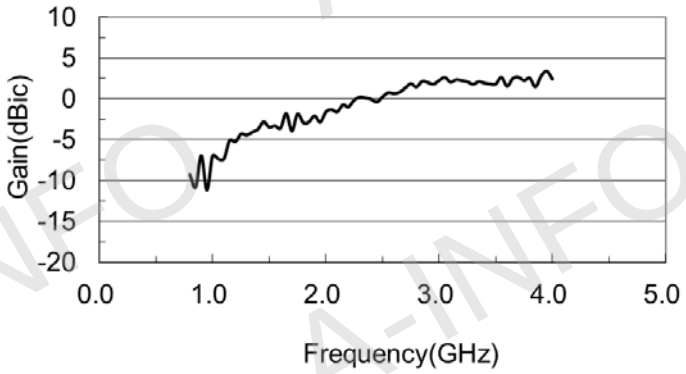



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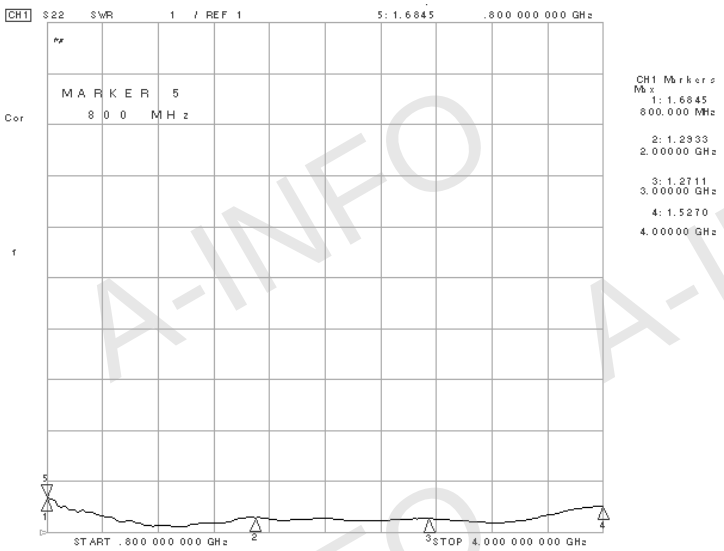
# Cavity Backed Spiral Antenna 0.8~4.0GHz(continued)

**P/N: LX-840**

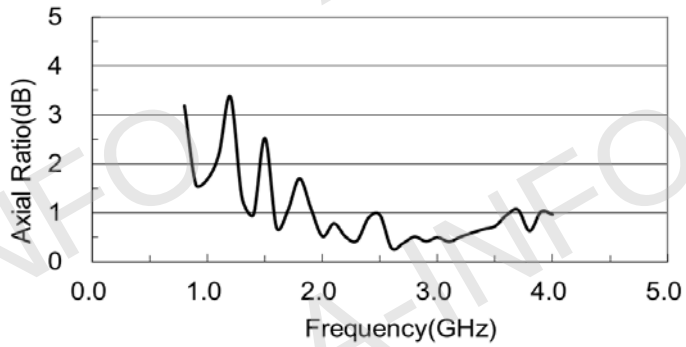
## Gain



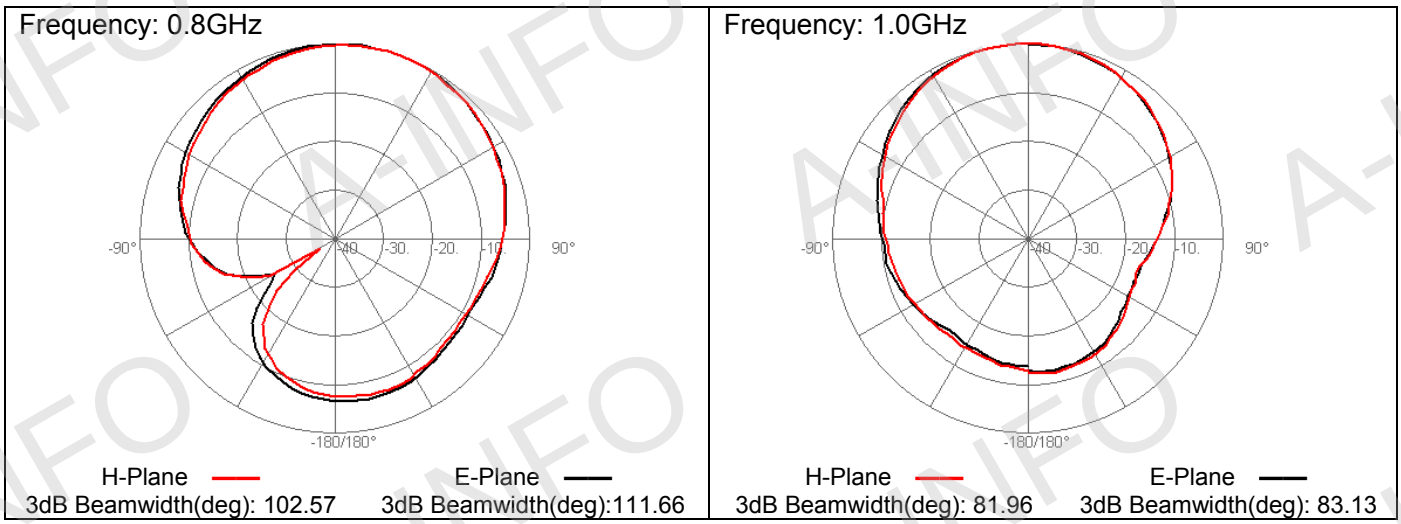

## VSWR




## Axial Ratio




## Pattern





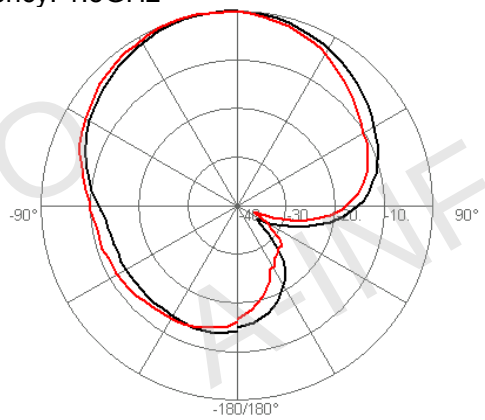

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# Cavity Backed Spiral Antenna 0.8~4.0GHz(continued)

**P/N: LX-840**

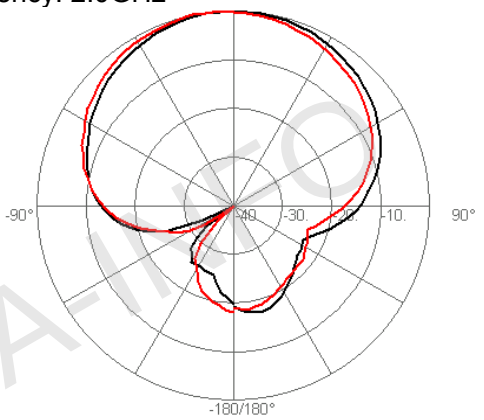
**Pattern**

Frequency: 1.5GHz



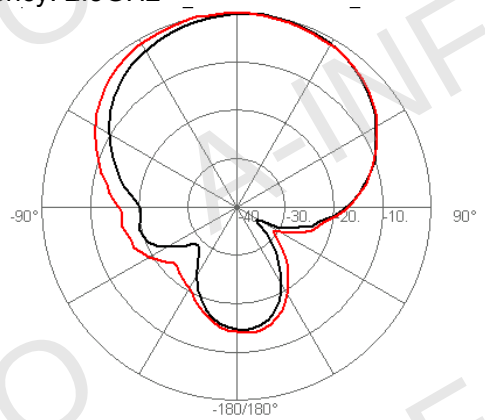

H-Plane — E-Plane —
3dB Beamwidth(deg): 75.37 3dB Beamwidth(deg): 74.10

Frequency: 2.0GHz



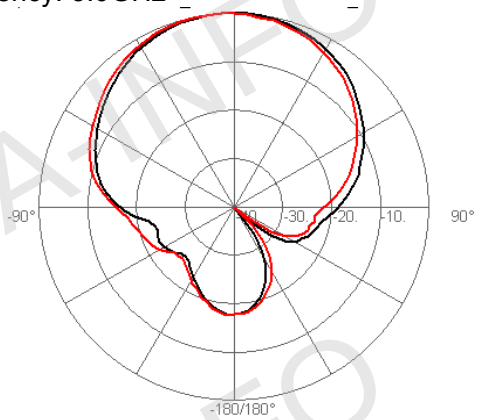

H-Plane — E-Plane —
3dB Beamwidth(deg): 78.71 3dB Beamwidth(deg): 79.36

Frequency: 2.5GHz



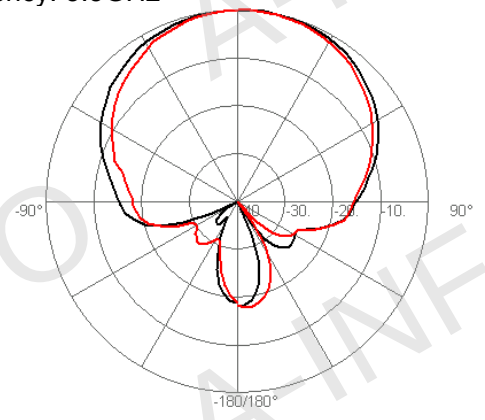

H-Plane — E-Plane —
3dB Beamwidth(deg): 88.56 3dB Beamwidth(deg): 74.69

Frequency: 3.0GHz



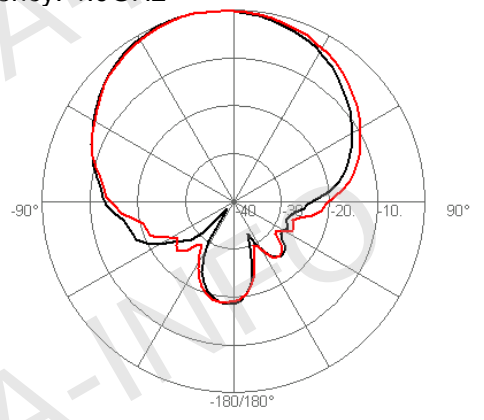

H-Plane — E-Plane —
3dB Beamwidth(deg): 69..99 3dB Beamwidth(deg): 69.64

Frequency: 3.5GHz




H-Plane — E-Plane —
3dB Beamwidth(deg): 70.16 3dB Beamwidth(deg): 84.07

Frequency: 4.0GHz




H-Plane — E-Plane —
3dB Beamwidth(deg): 73.17 3dB Beamwidth(deg): 69.45



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# Cavity Backed Spiral Antenna 1.0~18.0GHz

**P/N: LX-10180**

**Without Radome**



**With Radome**



## Technical Specification

| | | |
|---|---|---|
| **Polarization** | RHCP or LHCP | |
| **Frequency Range(GHz)** | 1 - 18 | |
| **Gain(dBic)** | Without Radome | -6.46@1GHz |
| | | 4.76@8GHz |
| | | 1.42@18GHz |
| | With Radome | -6.50@1GHz |
| | | 4.81@8GHz |
| | | 2.30@18GHz |
| **Axial Ratio(dB)** | 3 Max. | |
| **3dB Beamwidth(deg)** | Without Radome | E: 115 - 60 |
| | | H: 110 - 60 |
| **VSWR** | 2.0 : 1 Typ. | |
| | 3.0 : 1 Max | |
| **Connector** | SMA- Female | |
| **Material** | Al | |
| **Size(mm)** | Φ120 x 89.4 (Without Radome) | |
| | Φ132 x 94.6 (With Radome) | |
| **Net Weight(Kg)** | 0.85 Around(Without Radome) | |
| | 0.87 Around(With Radome) | |
| **Material For Radome** | Rigid Foam | |
| **Operating Environment For Radome** | Outdoor Application; Water Proof & Dust Proof | |



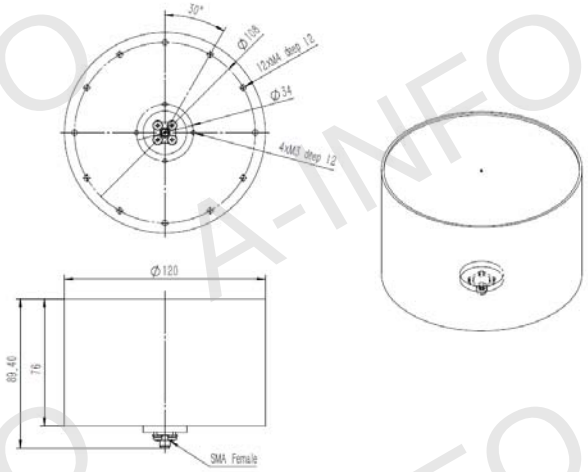
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# Cavity Backed Spiral Antenna 1.0~18.0GHz(continued)

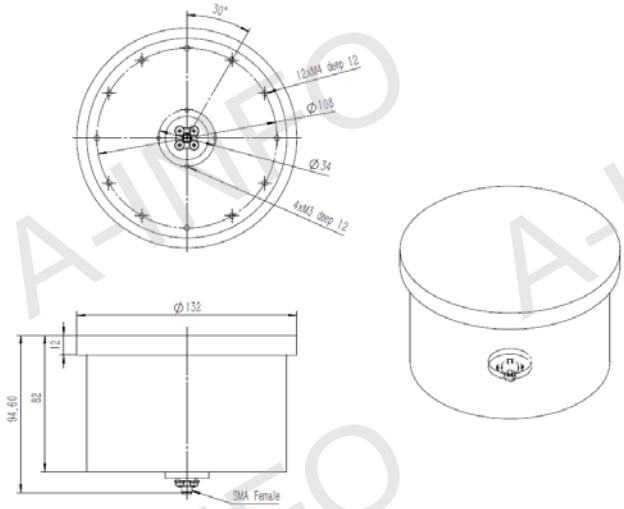
## P/N: LX-10180

### Outline Drawing and Mounting(Size: mm)

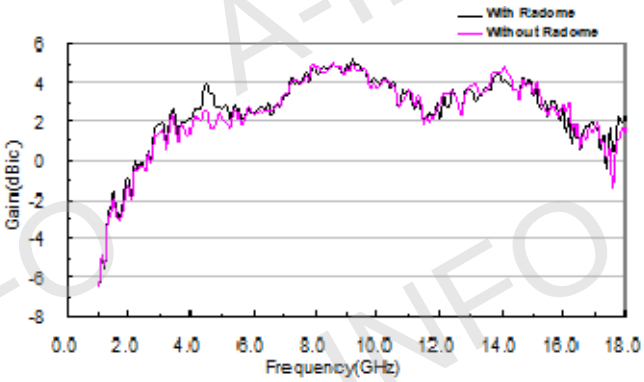
**Without Radome**



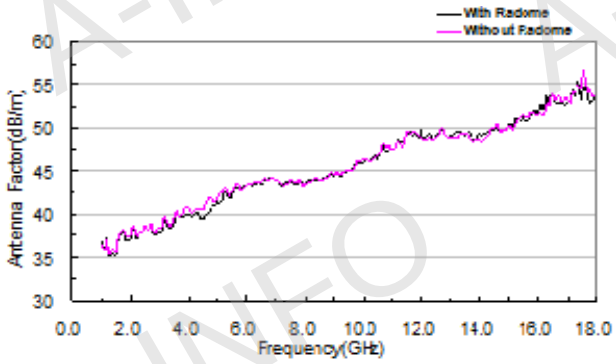

**With Radome**



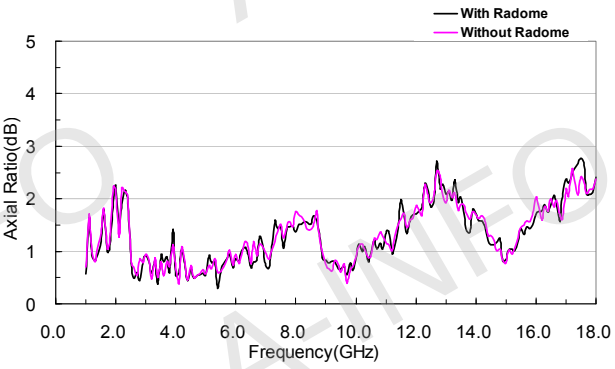

### Gain



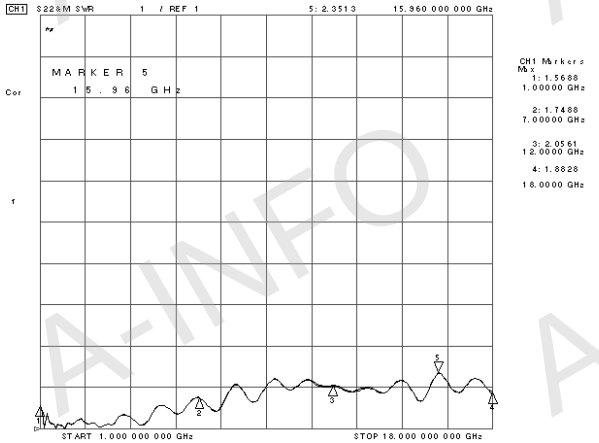

### Antenna Factor




### Axial Ratio




### VSWR(DATA: With Radome; MEM: Without Radome)



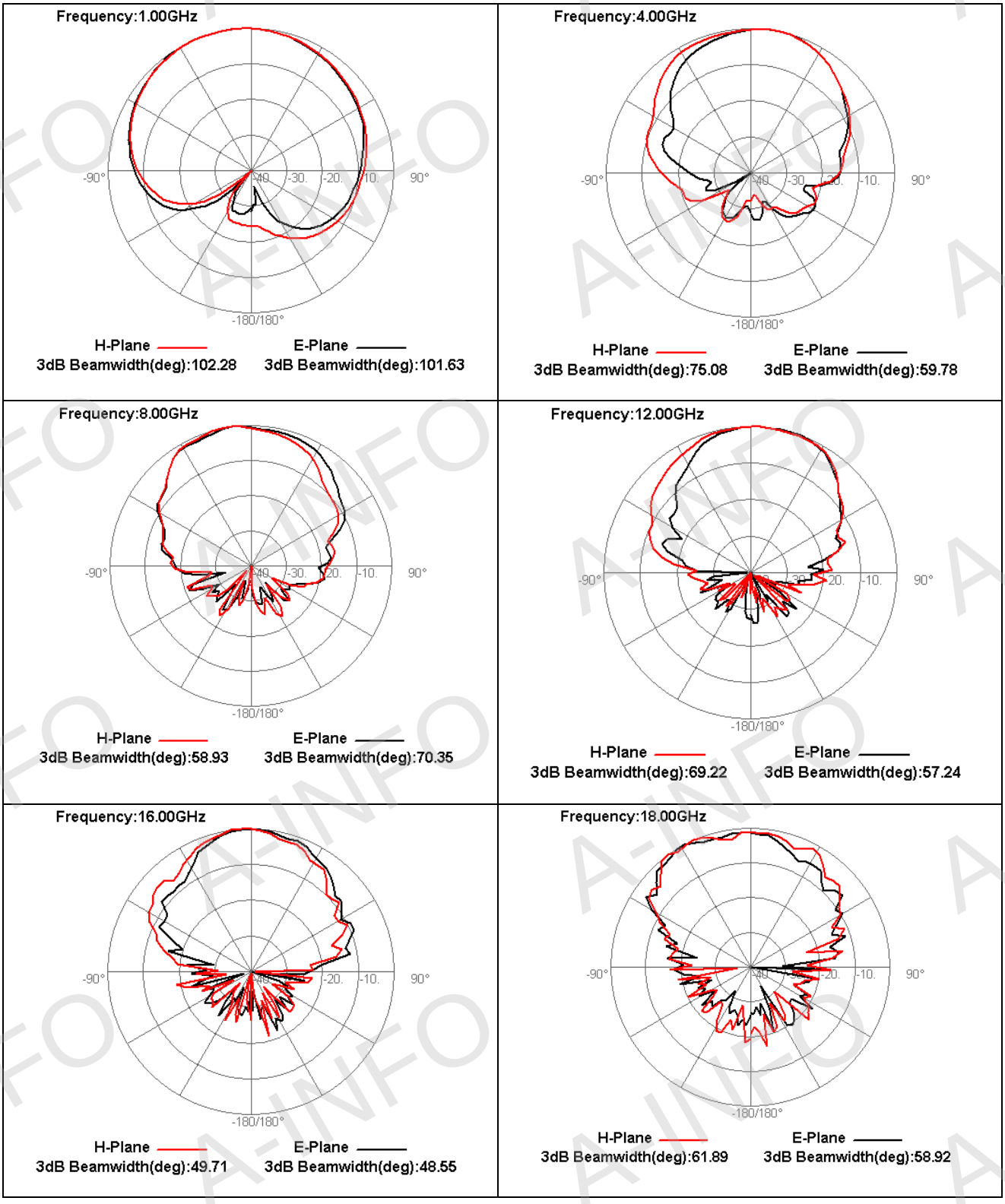



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# Cavity Backed Spiral Antenna 1.0~18.0GHz(continued)

**P/N: LX-10180**

**Pattern**






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# Cavity Backed Spiral Antenna 2.0~18.0GHz

**P/N: LX-20180**

**Without Radome**



**With Radome**



## Technical Specification

| | | |
|---|---|---|
| **Polarization** | RHCP or LHCP | |
| **Frequency Range(GHz)** | 2 - 18 | |
| **Gain(dBic)** | Without Radome | -5.99@2GHz |
| | | 4.41@8GHz |
| | | 1.37@18GHz |
| | With Radome | -5.42@2GHz |
| | | 4.25@8GHz |
| | | 0.94@18GHz |
| **Axial Ratio(dB)** | 3.5 Max. | |
| **3dB Beamwidth(deg)** | Without Radome | E: 100 - 55 |
| | | H: 105 - 55 |
| **VSWR** | 2.0 : 1 Typ. | |
| | 3.0 : 1 Max | |
| **Connector** | SMA- Female | |
| **Net Weight(Kg)** | 0.17 Around(Without Radome) | |
| | 0.18 Around(With Radome) | |
| **Material For Radome** | Rigid Foam | |
| **Operating Environment For Radome** | Outdoor Application; Water Proof & Dust Proof | |



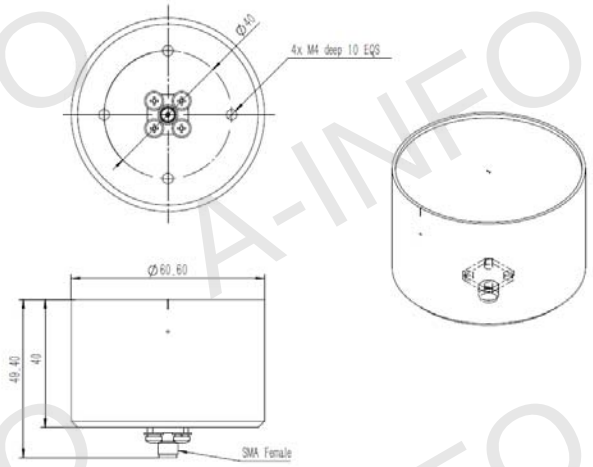
China(Beijing): Tel: (+86) 10-6266-7326, (+86) 10-6266-7327 Fax: (+86) 10-6266-7379
China(Chengdu): Tel: (+86) 28-8519-2786, (+86) 28-8519-3044 Fax: (+86) 28-8519-3068
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# Cavity Backed Spiral Antenna 2.0~18.0GHz(continued)

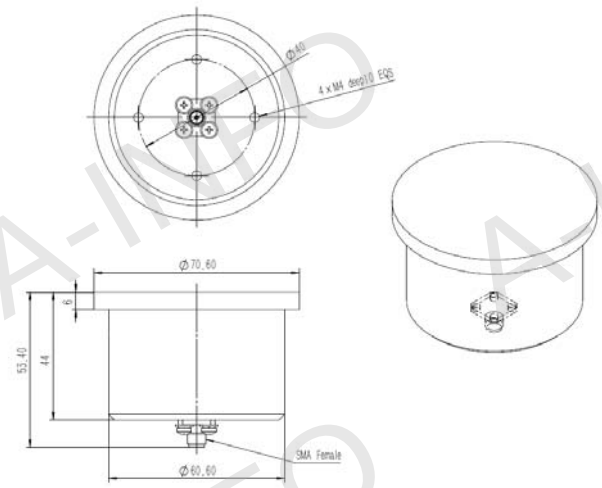
**P/N: LX-20180**

## Outline Drawing and Mounting(Size: mm)

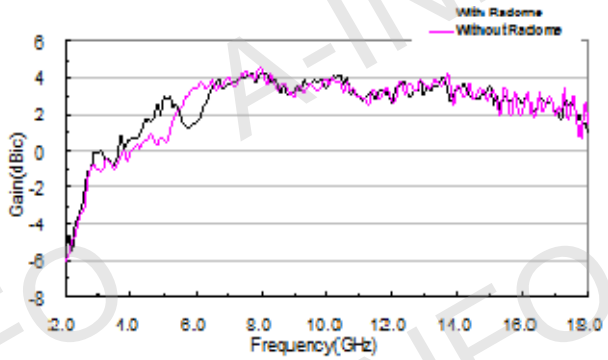
### Without Radome



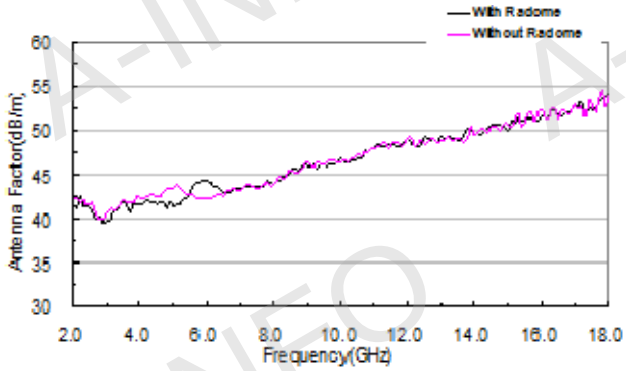

### With Radome



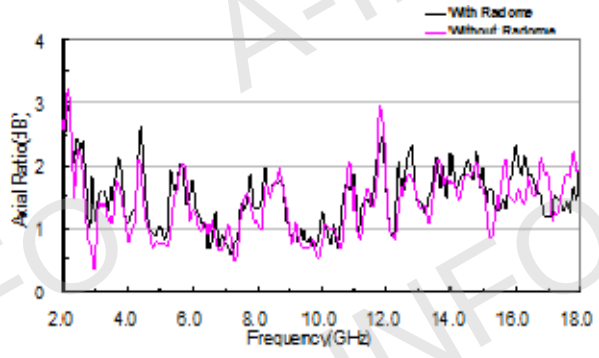

### Gain



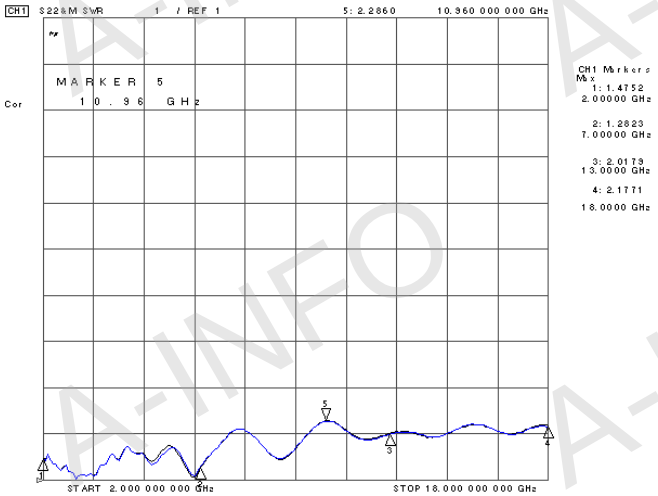

### Antenna Factor




### Axial Ratio




### VSWR





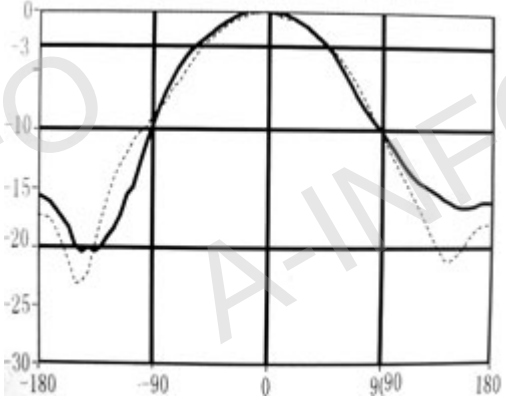

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# Cavity Backed Spiral Antenna 2.0~18.0GHz(continued)

**P/N: LX-20180**

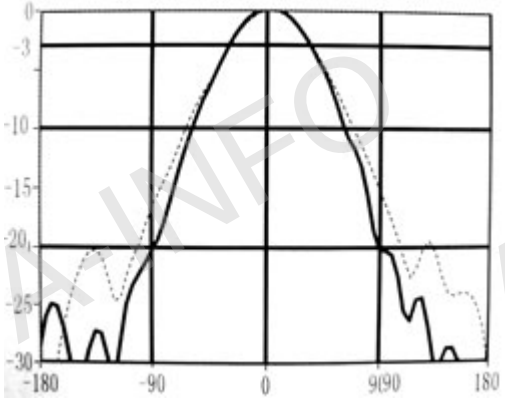
**Pattern**

Frequency: 2GHz



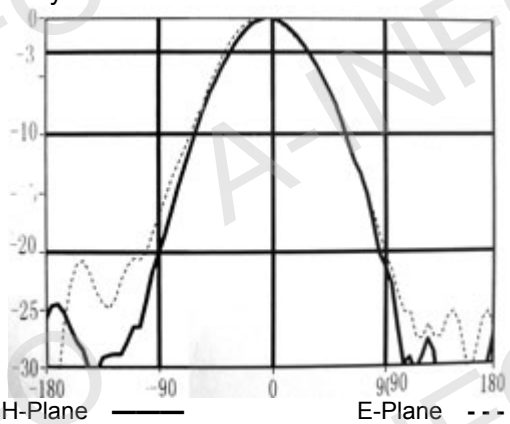

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (°): 102.94 3dB Beamwidth (°): 99.71

Frequency: 6GHz



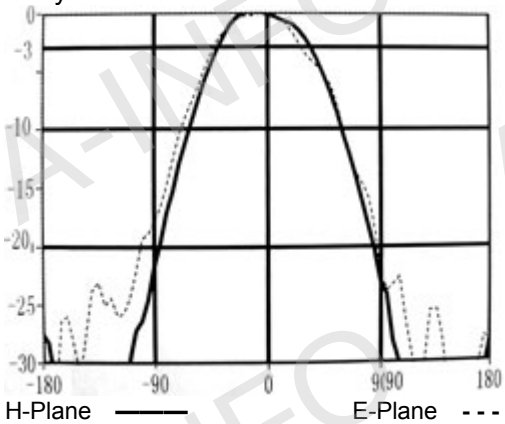

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (°): 63.89 3dB Beamwidth (°): 67.30

Frequency: 8GHz



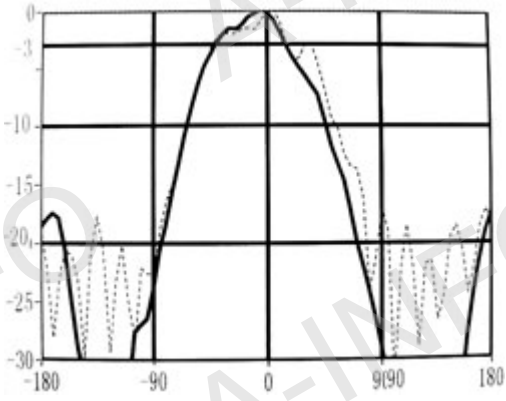

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (°): 62.45 3dB Beamwidth (°): 66.09

Frequency: 12GHz



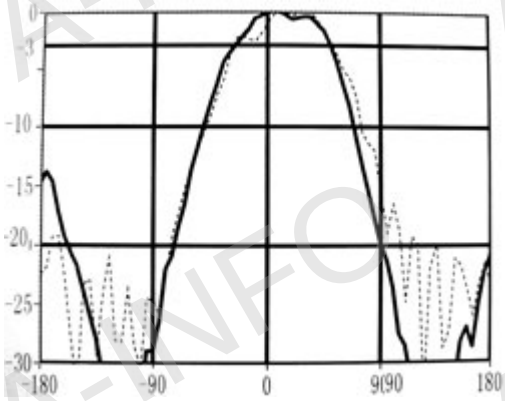

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (°): 73.72 3dB Beamwidth (°): 69.73

Frequency: 16GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth(°): 55.36 3dB Beamwidth (°): 58.86

Frequency: 18GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (°): 75.81 3dB Beamwidth (°): 78.56



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# Cavity Backed Spiral Antenna 2.0~18.0GHz

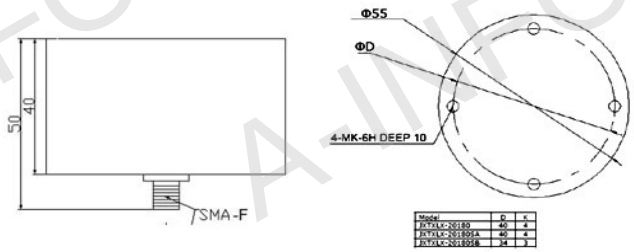
**P/N: LX-20180SA**



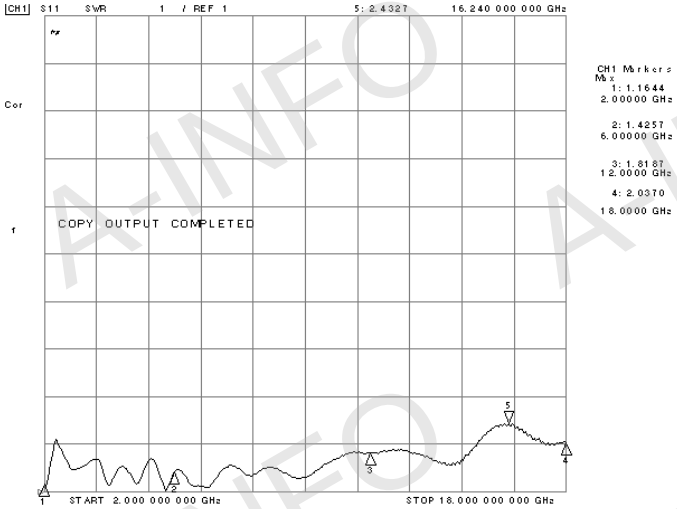
## Technical Specification

| | |
|---|---|
| **Polarization** | RHCP or LHCP |
| **Frequency Range(GHz)** | 2-18 |
| **Gain(dBic)** | -5.41@2GHz<br>2.93 @8GHz<br>4.29@18GHz |
| **3dB Beamwidth(Deg)** | E: 115 - 50<br>H: 105 - 50 |
| **Axial Ratio(dB)** | 4 Max |
| **VSWR** | 2.0 : 1 Typ.<br>3.0 : 1 Max |
| **Connector** | SMA-Female |
| **Size(mm)** | Φ55 x 50 |
| **Net Weight(Kg)** | 0.13 Around |

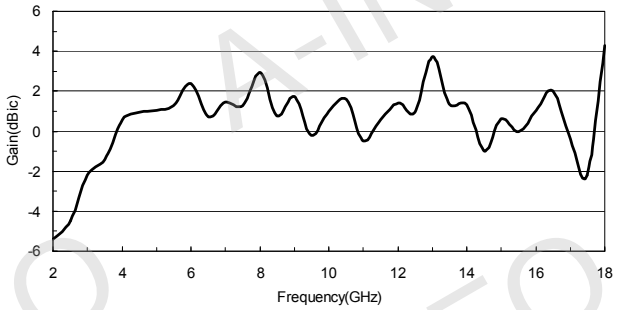
## Outline Drawing and Mounting(Size: mm)



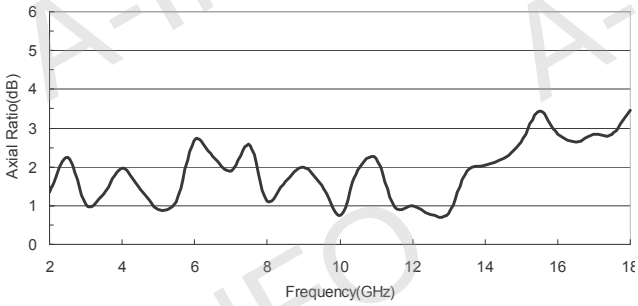

## VSWR




## Gain




## Axial Ratio





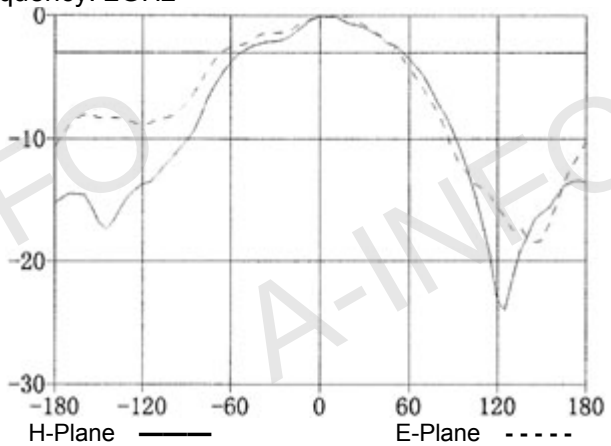

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# Cavity Backed Spiral Antenna 2.0~18.0GHz(continued)

**P/N: LX-20180SA**

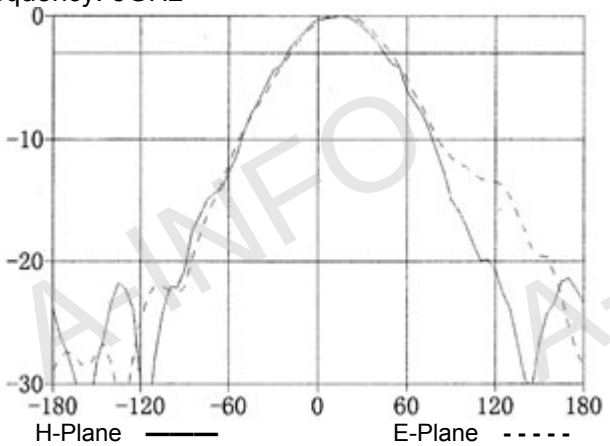
**Pattern**

Frequency: 2GHz



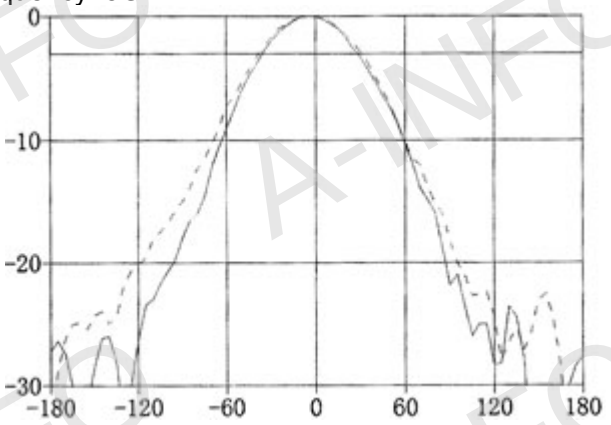

3dB Beamwidth (deg): 108.91 3dB Beamwidth (deg): 118.82

Frequency: 5GHz



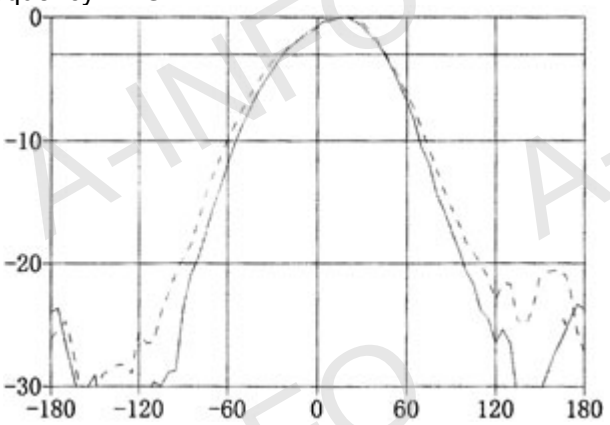

3dB Beamwidth (deg): 65.20 3dB Beamwidth (deg): 67.95

Frequency: 8GHz



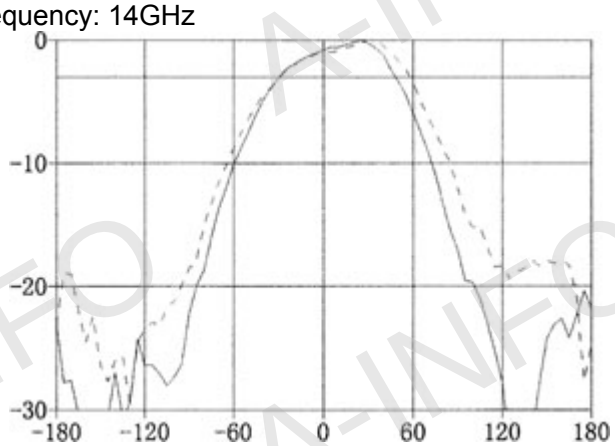

3dB Beamwidth (deg): 63.62 3dB Beamwidth (deg): 68.54

Frequency: 11GHz



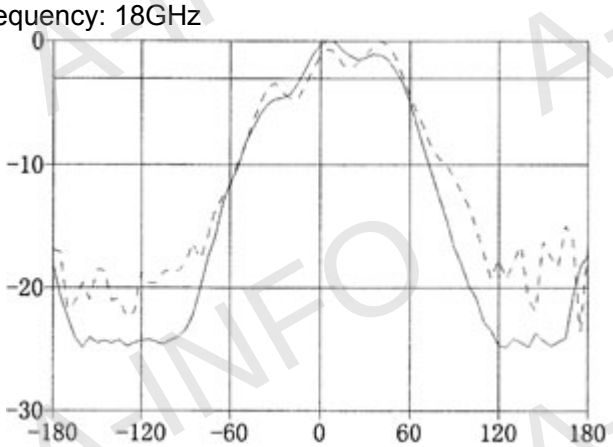

3dB Beamwidth (deg): 67.78 3dB Beamwidth (deg): 70.95

Frequency: 14GHz




3dB Beamwidth (deg): 77.39 3dB Beamwidth (deg): 86.46

Frequency: 18GHz




3dB Beamwidth (deg): 66.59 3dB Beamwidth (deg): 63.34



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# Cavity Backed Spiral Antenna 6.0~18.0GHz

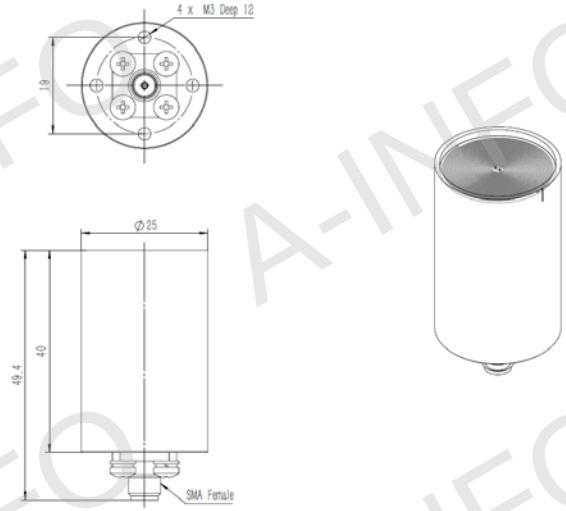
**P/N: LX-60180**



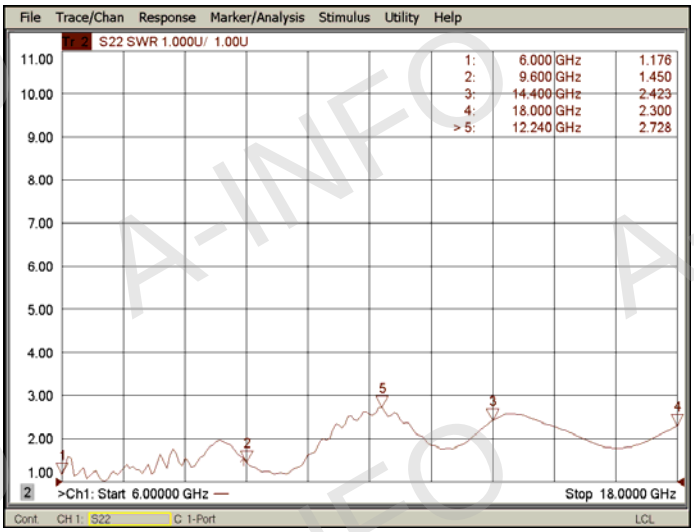
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 6.0-18.0 |
| Gain(dBic) | 3.85@6GHz<br>4.28@12GHz<br>4.22@18GHz |
| Polarization | RHCP or LHCP |
| Axial Ratio(dB) | 5.0 Max |
| 3dB Beamwidth(°) | E: 110 - 40 |
| | H: 95 - 50 |
| VSWR | 2.0 : 1 Typ. |
| | 3.0 : 1 Max |
| Connector | SMA-Female |
| Material | Al |
| Size(mm) | Φ25 x 49.4 |
| Net Weight(Kg) | 0.03Around |

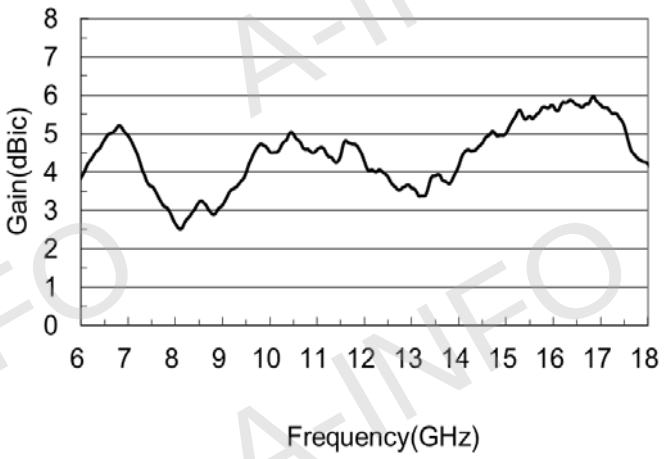
## Outline Drawing(Size: mm)



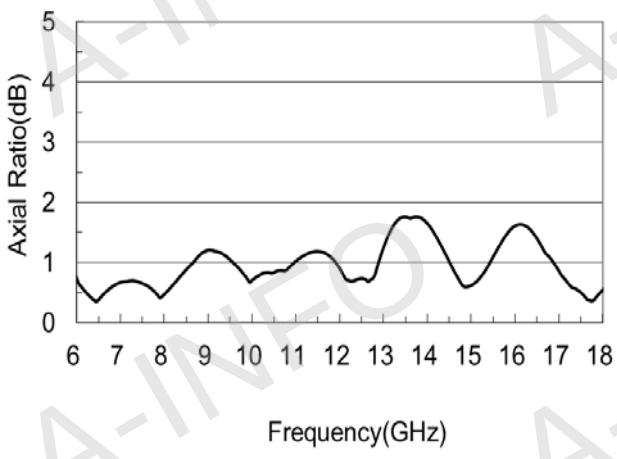

## VSWR




## Gain




## Axial Ratio



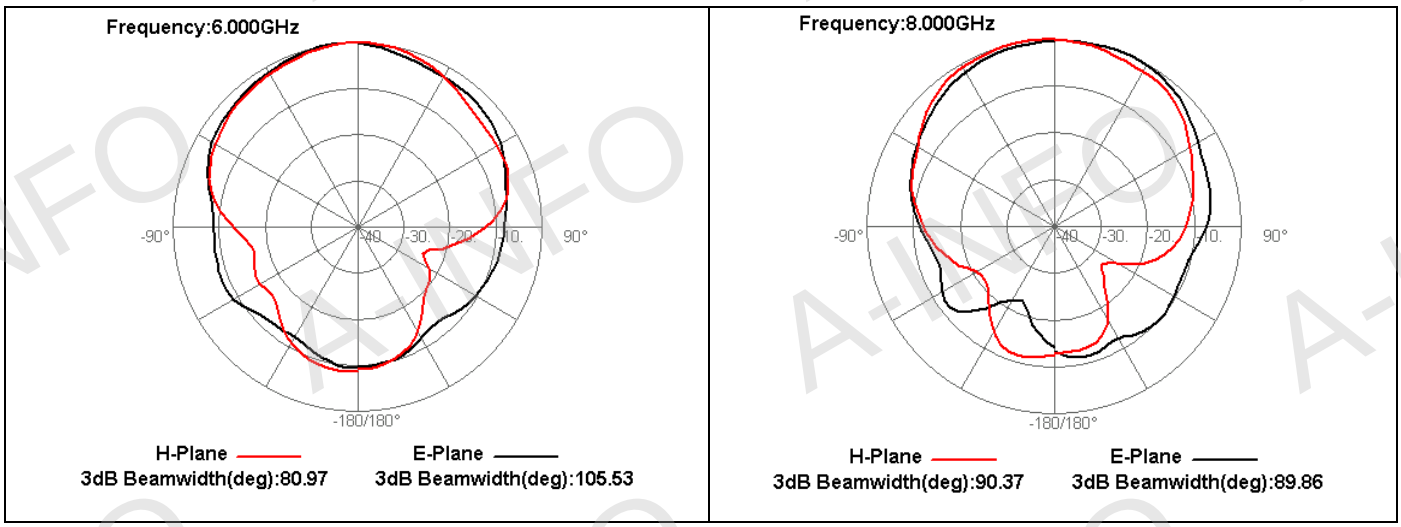


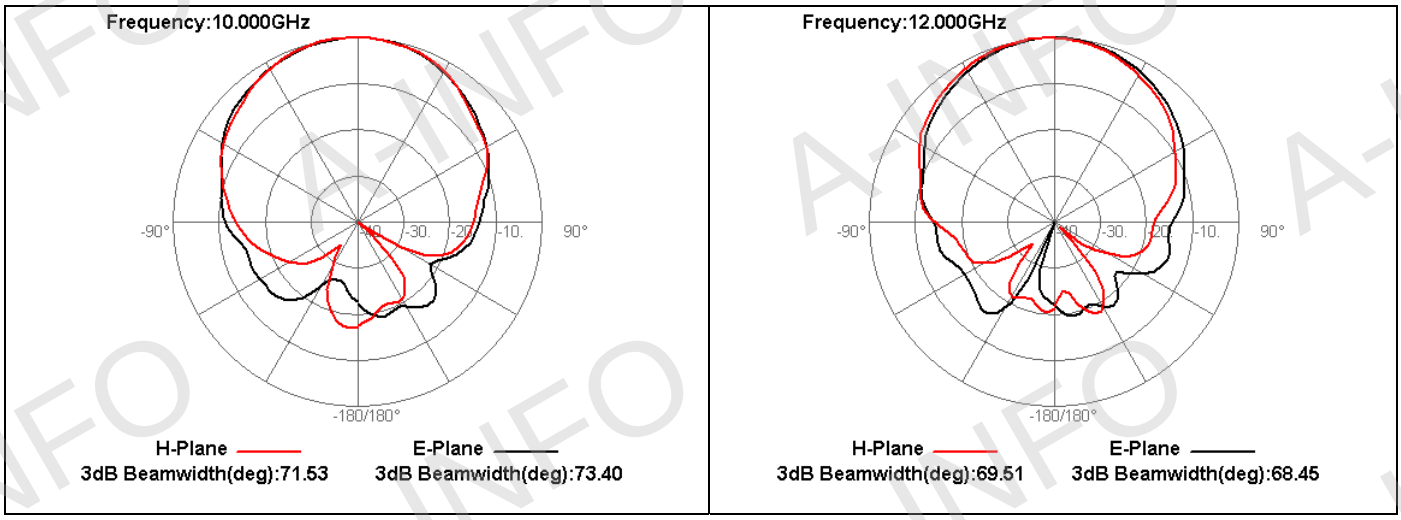

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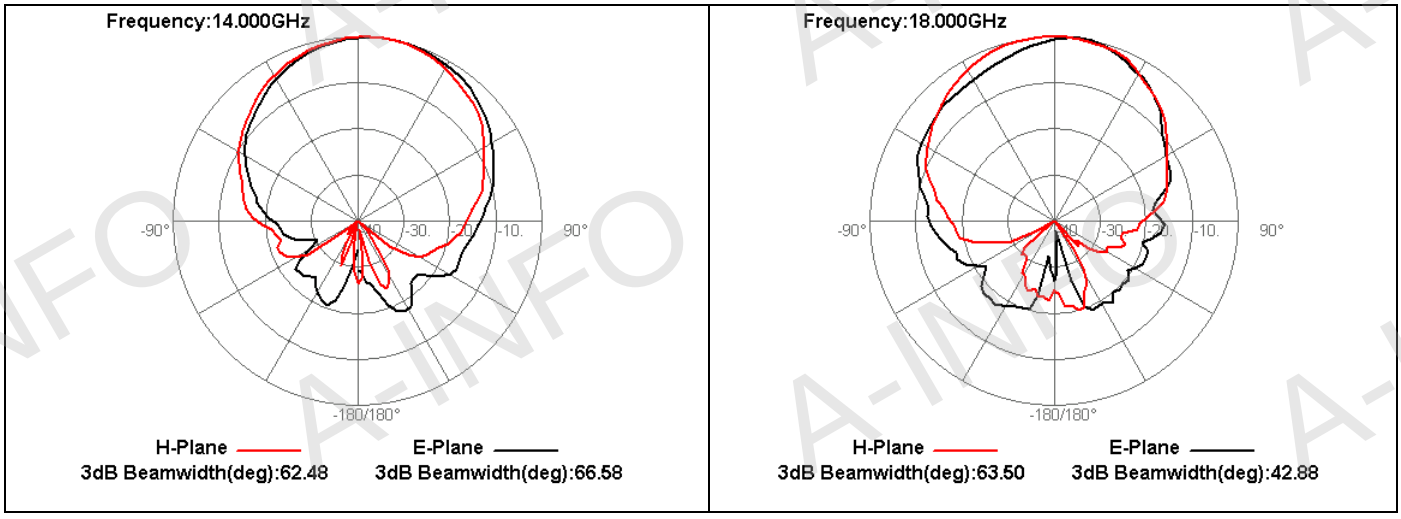
# Cavity Backed Spiral Antenna 6.0~18.0GHz(continued)

**P/N: LX-60180**

**Pattern**






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# Cavity Backed Spiral Antenna 18.0~40GHz

**P/N: LX-180400**

**Without Radome**



**With Radome**

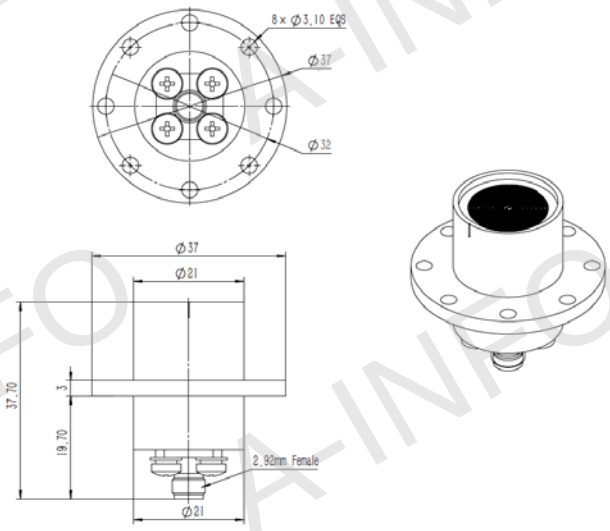


**Technical Specification**

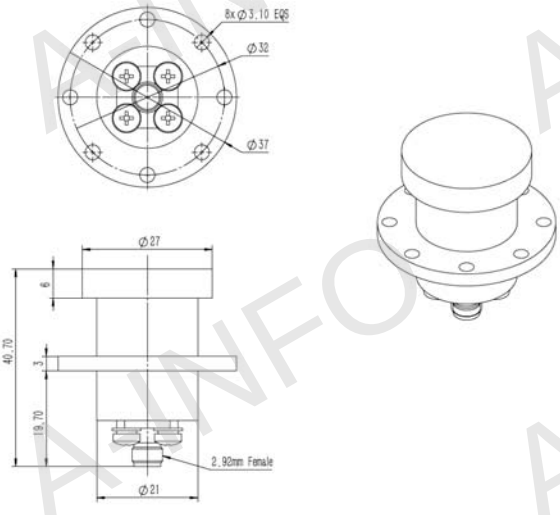
| | |
|---|---|
| **Polarization** | LHCP or RHCP |
| **Frequency Range(GHz)** | 18 - 40 |
| **Gain(dBic)** | 0 - 4 |
| **Axial Ratio(dB)** | 5.5 Max |
| **3dB Beamwidth(deg)** | E: 100 - 45 |
| | H: 95 - 40 |
| **VSWR** | 2.0 : 1 Typ. |
| | 3.0 : 1 Max |
| **Connector** | 2.92mm-Female |
| **Size(mm)** | Φ37 x 37.7 |
| **Net Weight(Kg)** | 0.05 Around |

**Outline Drawing (Size: mm)**

With 2.92mm-Female Output




With 2.92mm-Female Output & Radome



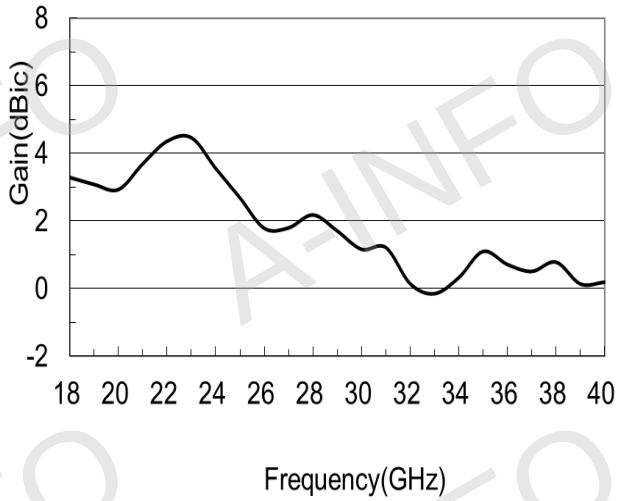



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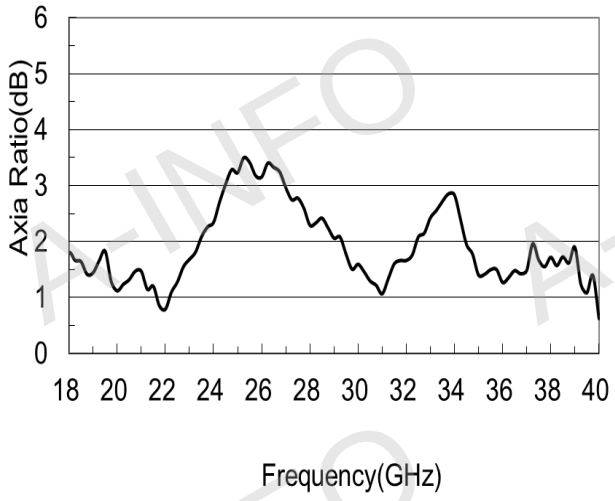
# Cavity Backed Spiral Antenna 18.0~40GHz(continued)

**P/N: LX-180400**

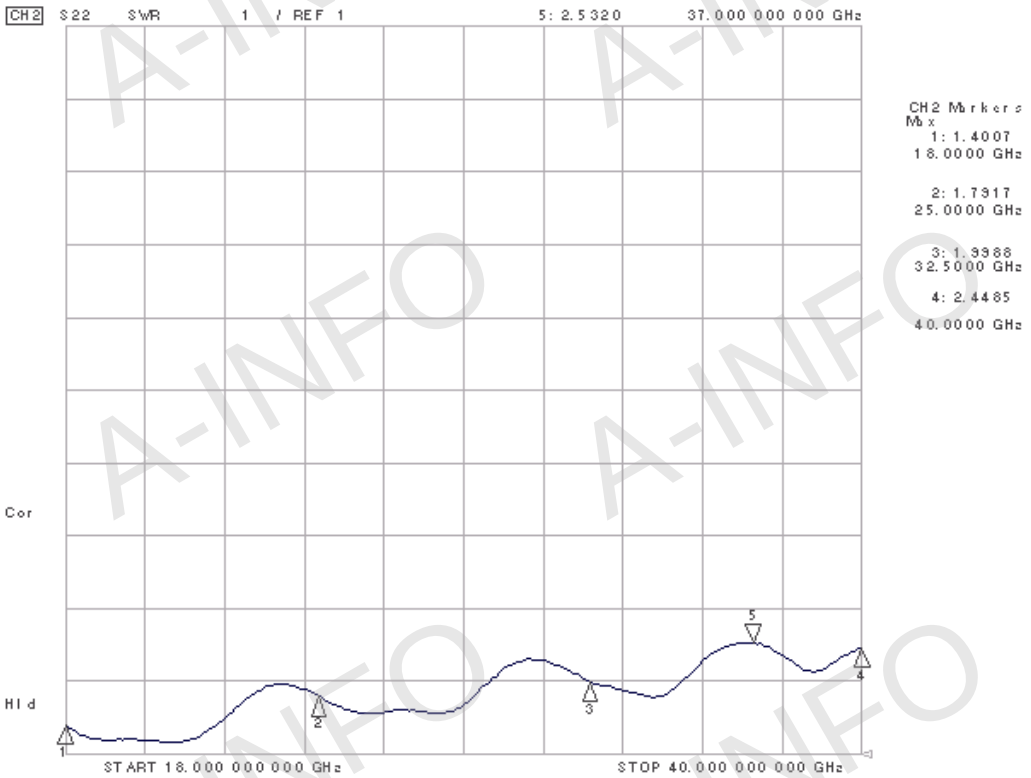
**Gain**




**Axial Ratio**




**VSWR**



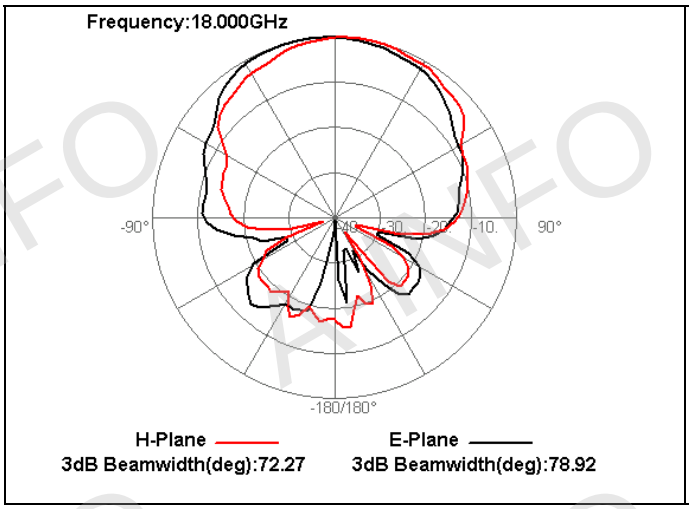


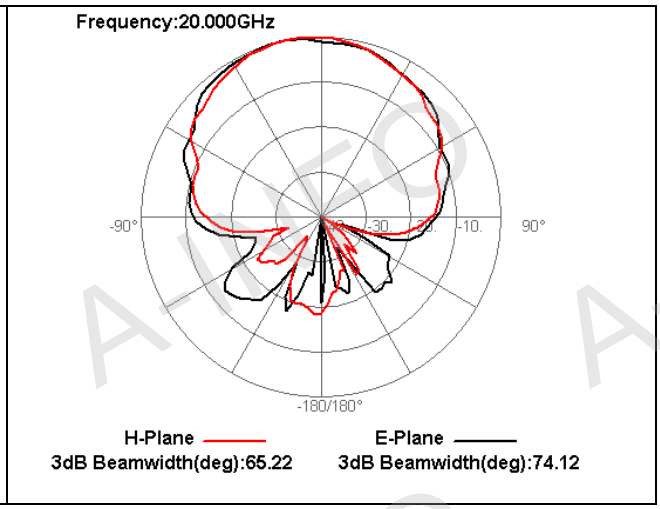

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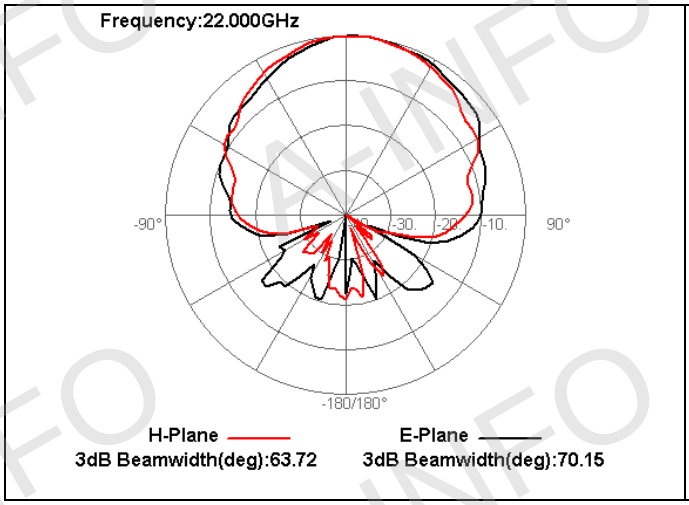
# Cavity Backed Spiral Antenna 18.0~40GHz(continued)

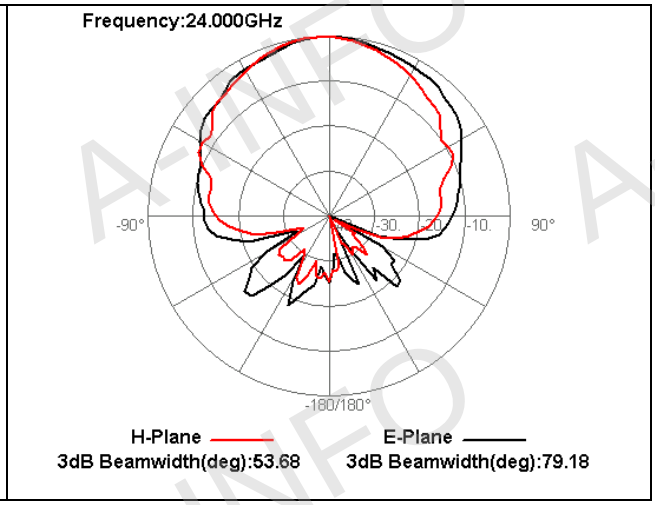
**P/N: LX-180400**

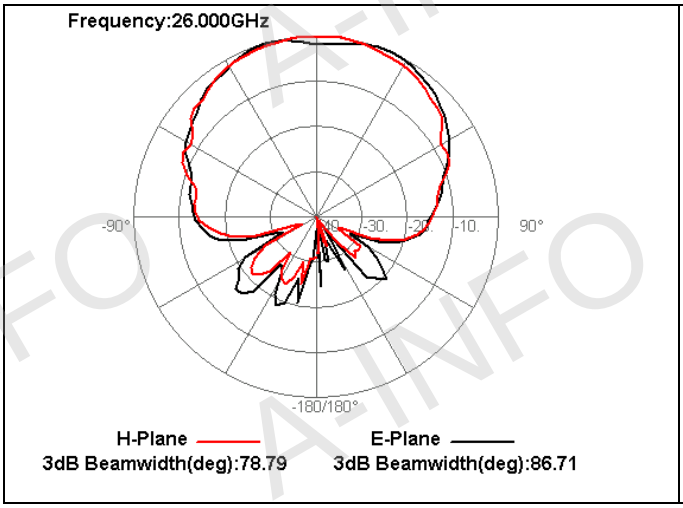
**Pattern**

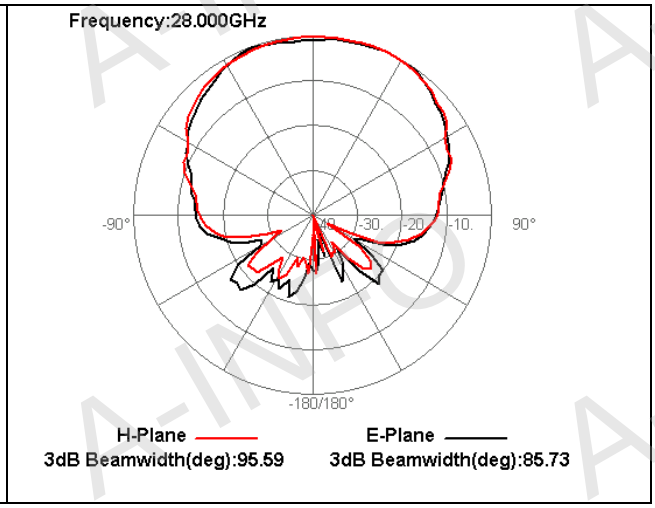


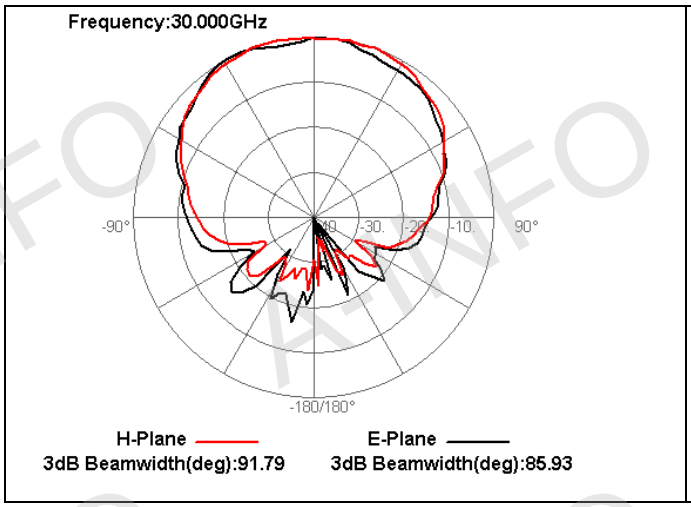



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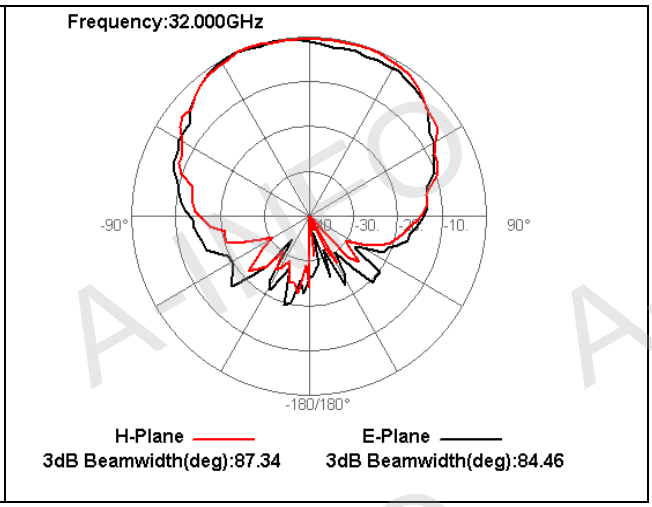
# Cavity Backed Spiral Antenna 18.0~40GHz(continued)

**P/N: LX-180400**

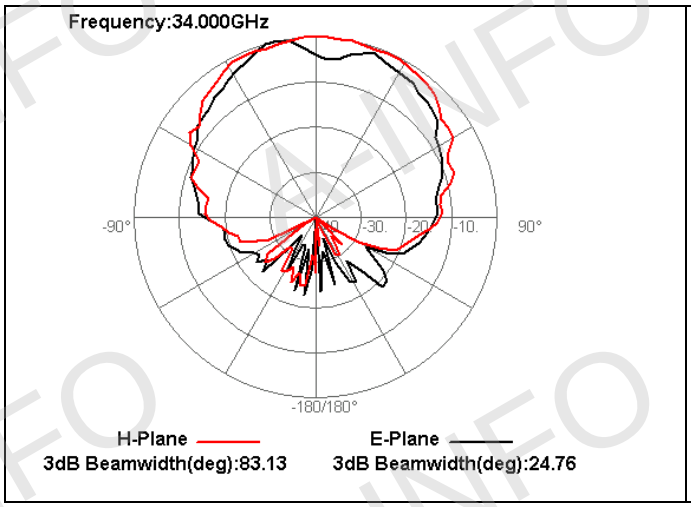
**Pattern**



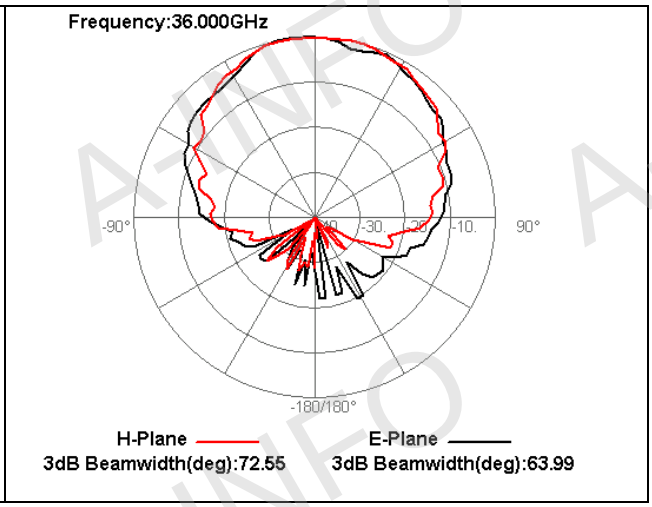

3dB Beamwidth(deg):91.79 3dB Beamwidth(deg):85.93



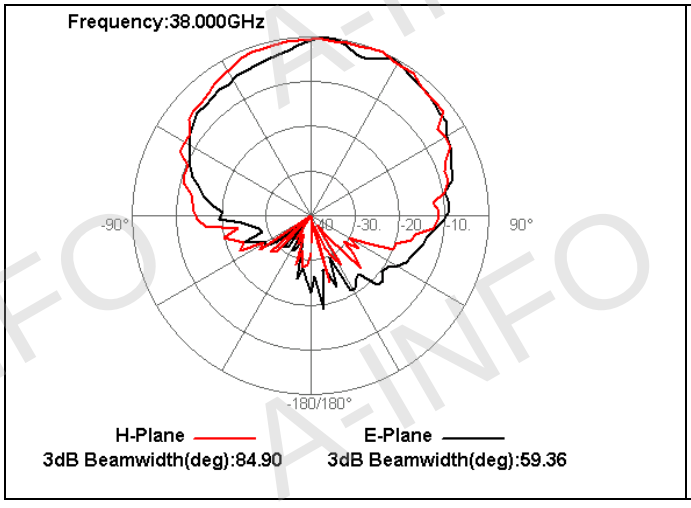

3dB Beamwidth(deg):87.34 3dB Beamwidth(deg):84.46



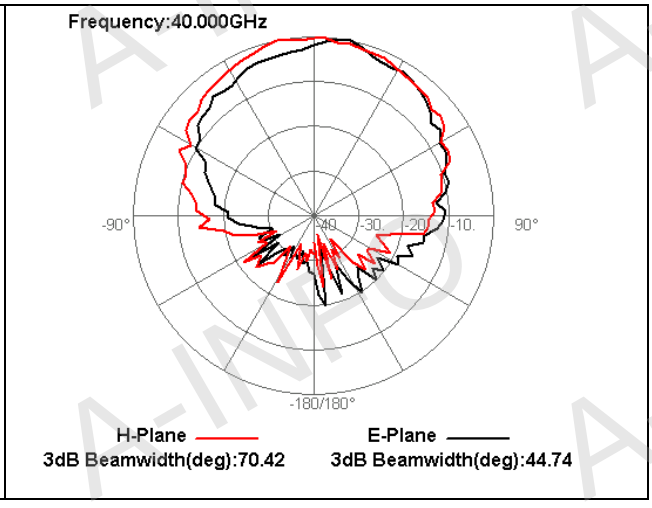

3dB Beamwidth(deg):83.13 3dB Beamwidth(deg):24.76




3dB Beamwidth(deg):72.55 3dB Beamwidth(deg):63.99




3dB Beamwidth(deg):84.90 3dB Beamwidth(deg):59.36




3dB Beamwidth(deg):70.42 3dB Beamwidth(deg):44.74



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# Helical Antenna



*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Helical Antenna and download.*

| Model | Frequency (GHz) | Gain (dBic) Min. | VSWR Max. | Power Handling (W) CW | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| ZLX-6670-10 | 6.6-7.0 | 10 | 2.0 | 10 | SMA-F | Φ60 x 99.1 |
| ZLX-8084-12 | 8.0-8.4 | 12 | 2.0 | 10 | SMA-F | Φ60 x 119.4 |
| ZLX-9010-12 | 9.0-10.0 | 12 | 2.0 | 10 | SMA-F | Φ60 x 119.4 |

# Spiral Antenna Accessories

Radome **(For all Spiral Antenna)**



Mounting Bracket **(L Type)**





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# Microstrip Array Antenna



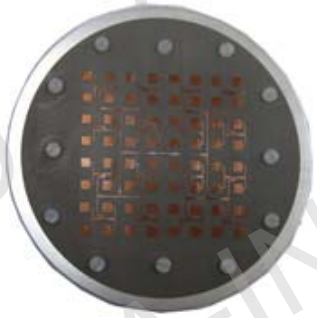
*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Microstrip Array Antenna and download.*

| Model | Freq. (MHz) | Bandwidth | Gain (dB) | VSWR Max. | Connector | Impedance (Ω) |
|---|---|---|---|---|---|---|
| MAA-410 | 400-1000 | 5% | 10-15 | 2:1 | N | 50 |
| MAA-1020 | 1000-2000 | 5% | 10-15 | 2:1 | N | 50 |
| MAA-2224 | 2200-2400 | Full | 12 Typ. | 2:1 | SMA | 50 |
| MAA-2040 | 2000-4000 | 8%-10% | 15-20 | 2:1 | N/SMA | 50 |
| MAA-4080 | 4000-8000 | 8%-10% | 15-20 | 2:1 | SMA | 50 |
| MAA-7479 | 7400-7900 | Full | 15-20 | 2:1 Typ. | SMA | 50 |
| MAA-80125 | 8000-12500 | 8%-10% | 20-30 | 2:1 | SMA | 50 |
| MAA-935985-V | 9350-9850 | Full | 20 min | 2:1 | SMA | 50 |
| MAA-9600-C41 | 9350-9850 | Full | 20 Typ. | 2:1 | N-F/SMA-F | 50 |
| MAA-945975-C10 | 9450-9750 | Full | 26 min | 2:1 | N-F/SMA-F | 50 |
| MAA-10000-C21 | 9500-10500 | Full | 20 min | 2:1 | SMA-F/N-F | 50 |
| MAA-125180 | 12500-18000 | 8%-10% | 20-30 | 2:1 | SMA | 50 |
| MAA-164595-1 | 16450-16950 | Full | 20 min | 2:1 | SMA | 50 |
| MAA-164595-2 | 16450-16950 | Full | 20 min | 2:1 | SMA | 50 |
| MAA-164595-V | 16450-16950 | Full | 18 min | 2:1 | SMA | 50 |
| MAA-240255 | 24000-25500 | Full | 22.5 Typ. | 2.5:1 | SMA-F | 50 |


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# Microstrip Array Antenna 24.0~25.5GHz

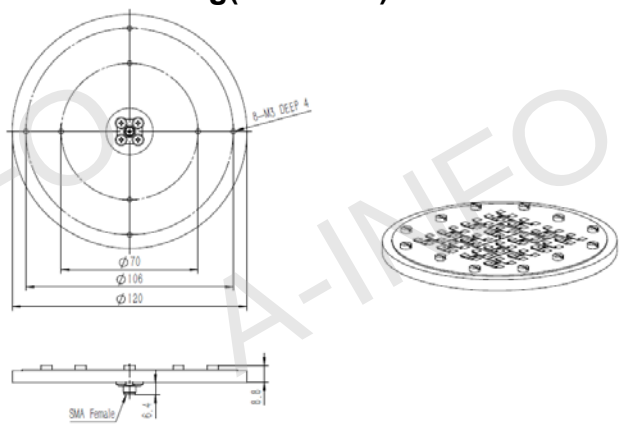
**P/N: MAA-240255**



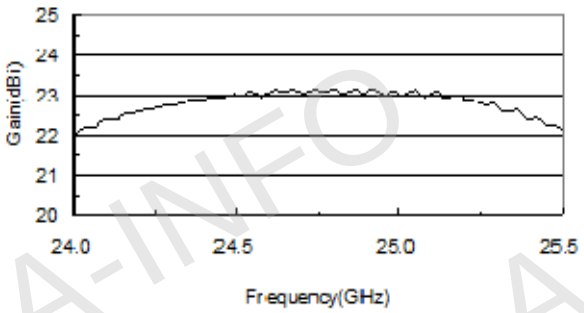
## Technical Specification

| | |
|---|---|
| **Frequency Range(GHz)** | 24.0-25.5 |
| **VSWR** | 1.5 Typ. , 2.5 Max |
| **Gain(dB)** | 22.5 Typ. |
| **3dB Beamwidth(deg)** | 9.0 Typ. |
| **Connector** | SMA-Female |
| **Size(mm)** | Φ120 x 8.8<br>(Connector is not included.) |
| **Net Weight(Kg)** | 0.2 Around |

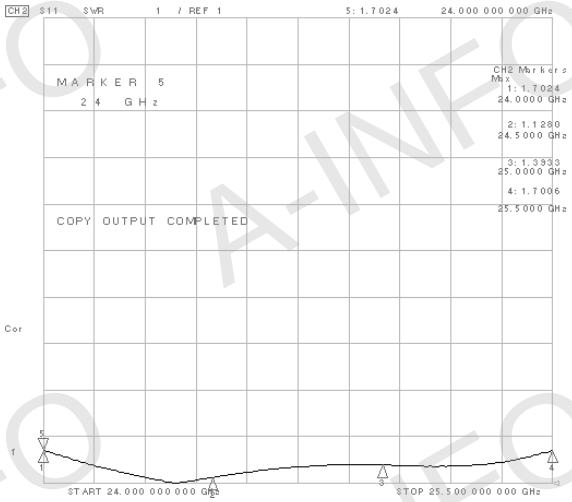
## Outline Drawing(Size: mm)



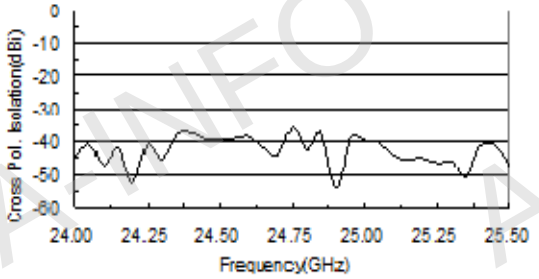

## Gain




## VSWR




## Cross Pol. Isolation



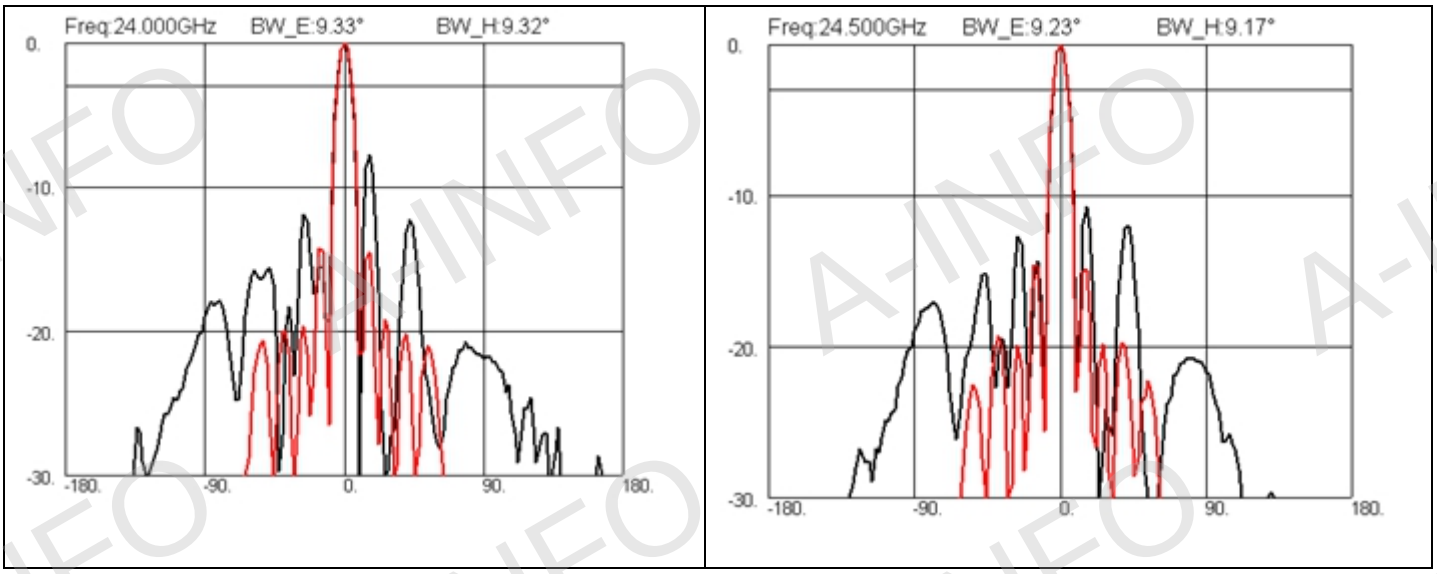



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# *Microstrip Array Antenna 24.0~25.5GHz (continued)*

**P/N: MAA-240255**

**Pattern**






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Website: www.ainfoinc.com
Email: sales@ainfoinc.com

# Microstrip Omni Antenna




*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Microstrip Omni Antenna and download.*

| Model | Frequency (MHz) | Polarization | Gain (dB) | VSWR Max. | Connector |
|---|---|---|---|---|---|
| OA-200-400-0 | 200-400 | Vertical | 0±2 | 2:1 | N-Female |
| OA-200-6000-0 | 200-6000 | Vertical | 0 | 2:1 | N-Female |
| OA-800-2700-2.5 | 800-2700 | Vertical | 2.5 | 2:1 | SMA-Male/SMA-Female |



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# Microstrip Omni Antenna 0.2~6.0GHz

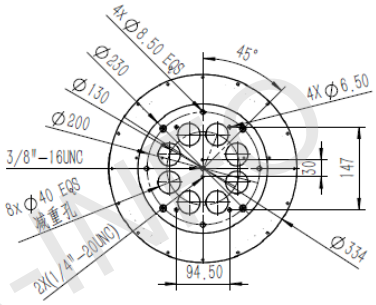
**P/N: OA-200-6000-0**

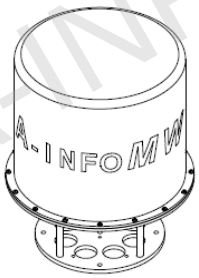


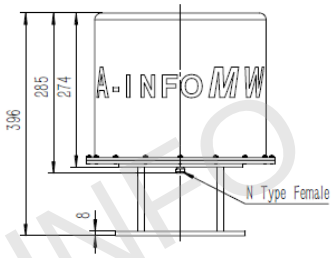

## Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 200 - 6000 |
| Gain(dB) | 0 Typ. |
| Antenna Factor | Pls. see the test results |
| VSWR | 2.0 : 1 Typ. |
| Polarization | Vertical |
| Connector | N-Female |
| Size(mm) | Φ334 x 396 approx. |
| Net Weight(Kg) | 4.5 Around (Antenna Radome & Mounting Plate Included) |

## Outline Drawing (Size: mm)



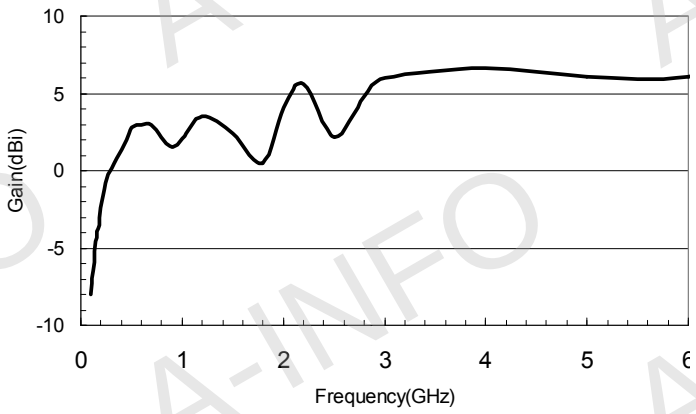




## Gain & Antenna Factor

| Frequency (GHz) | Gain (dB) | Antenna Factor (dBm-1) |
|---|---|---|
| 0.20 | -2.4 | 18.63 |
| 0.30 | 0.2 | 19.55 |
| 0.40 | 1.4 | 20.85 |
| 0.5 | 2.8 | 21.39 |
| 0.7 | 3.0 | 24.11 |
| 0.9 | 1.5 | 27.79 |
| 1.2 | 3.5 | 28.29 |
| 1.8 | 0.5 | 34.82 |
| 2.2 | 5.6 | 31.46 |
| 2.8 | 4.8 | 34.35 |
| 4.0 | 6.6 | 35.65 |
| 6.0 | 6.1 | 39.67 |

## Gain Curve



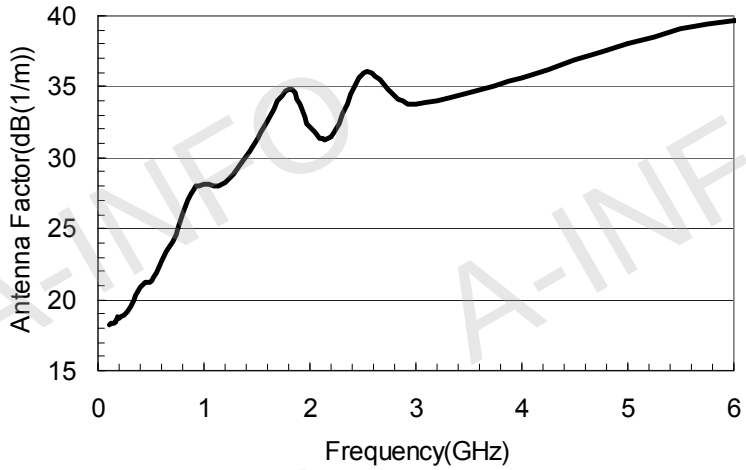



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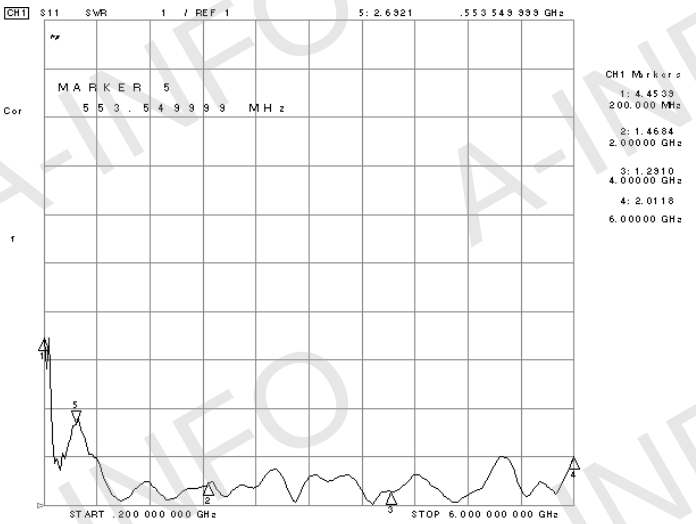
# *Microstrip Omni Antenna 0.2~6.0GHz(continued)*

**P/N: OA-200-6000-0**

**Antenna Factor Curve**

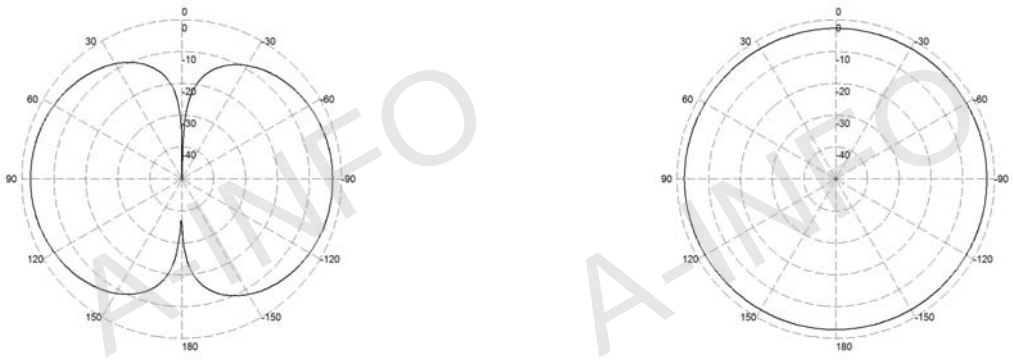



**VSWR**




**Pattern**

Frequency: 0.2GHz



E-Plane H-Plane



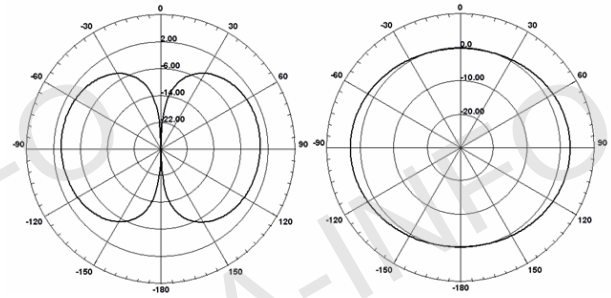
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# Microstrip Omni Antenna 0.2~6.0GHz(continued)

**P/N: OA-200-6000-0**

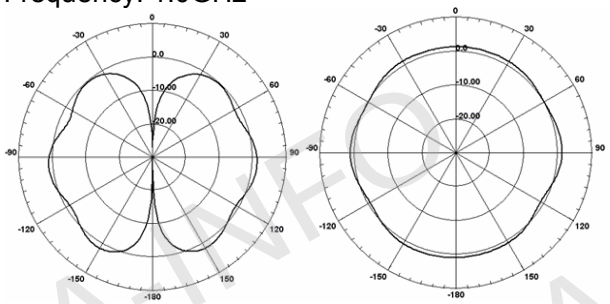
**Pattern**

Frequency: 0.5GHz



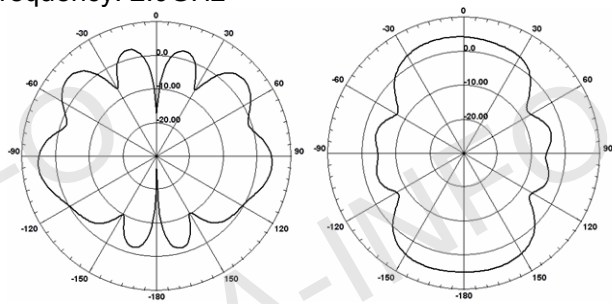
E-Plane H-Plane

Frequency: 1.0GHz



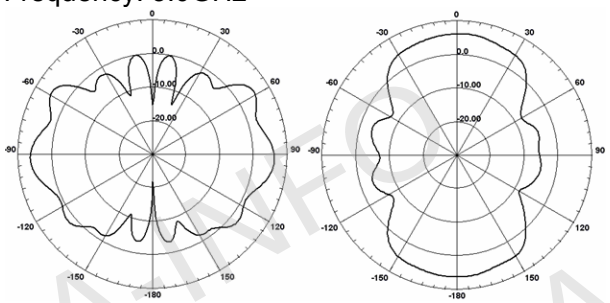
E-Plane H-Plane

Frequency: 2.0GHz



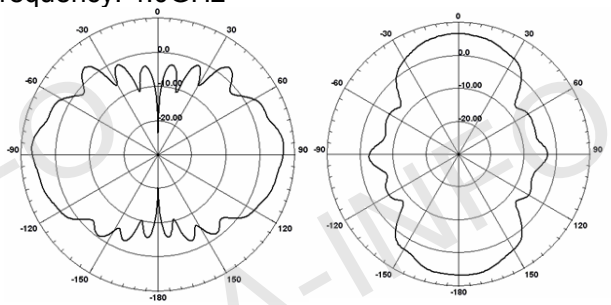
E-Plane H-Plane

Frequency: 3.0GHz



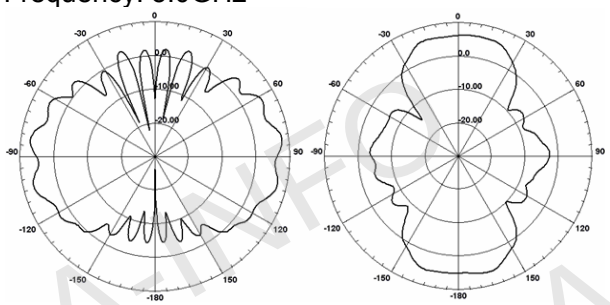
E-Plane H-Plane

Frequency: 4.0GHz



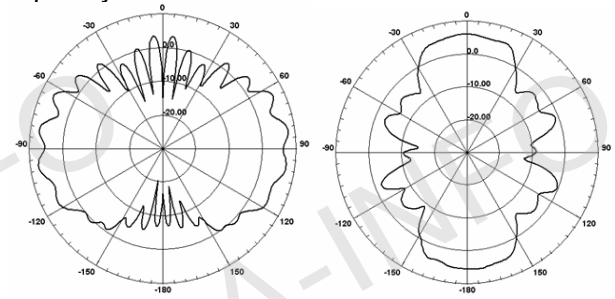
E-Plane H-Plane

Frequency: 5.0GHz



E-Plane H-Plane

Frequency: 6.0GHz



E-Plane H-Plane



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# Log Periodic Antenna





Our DS series antennas are lightweight, medium gain log periodic dipoles designed to transmit and receive signals over a broadband. These antennas are characterized by a high front-to-back ratio, and power gain at all frequency in the band. High quality aluminum construction for a lightweight, high strength antenna will provide years of trouble-free operation.

ALL DS antennas are linearly polarized. Polarization adjustment is possible, in any plane, DS series antennas operating below 300MHz are also supplied in a kit form for compactness in packaging and ease of transportation. Antennas in the kit form assemble easily with minimum tool requirements. Standard tripod will be provided according to customers' requirement, the joint is universal.

Also we provide specific frequency Log Periodic antennas according to customers' requirement.

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Log Period Antenna and download.*

## 1. Linear Polarization

| Model | Freq. Range (MHz) | 3dB Bandwidth (°) | Gain (dB) | VSWR Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| DS-340 | 30-400 | - | 5 | 3.5:1 | N-F | 3083 |
| DS-3100 | 30-1000 | - | -10~6 | 10.0 Typ. 30-50MHz,<br>2.0 Typ. 50-100MHz,<br>1.5 Typ. / 2.0 Max 100-1000MHz | N-F | 1734x1425 |
| DS-3100E | 30-1000 | - | -10~6 | Same as above | N-F | 1734x1601 |
| DS-3200 | 30-2000 | - | -10~6 | Same as above | N-F | 1734x1425 |
| DS-3200E | 30-2000 | - | -10~6 | Same as above | N-F | 1734x1601 |
| DS-3300 | 30-3000 | - | -10~6 | Same as above | N-F | 1734x1425 |
| DS-3300E | 30-3000 | - | -10~6 | Same as above | N-F | 1734x1601 |
| DS-4300 | 40-3000 | - | -10~6 | Same as above | N-F | 1720x1450 |



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| Model | Freq. Range (MHz) | 3dB Bandwidth (°) | Gain (dB) | VSWR Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| DS-1040 | 100-400 | - | 6 | 2:1 Max | N-F | 1560x1450 |
| DS-10100 | 100-1000 | - | 6 | 2:1 Max | N-F | 1560x1450 |
| DS-10200 | 100-2000 | - | 6 | 2:1 Max | N-F | 1560x1450 |
| DS-10200-SPT | 100-2000 | - | 6 | 2:1 Max | N-F | 1408x1550 |
| DS-10300 | 100-3000 | - | 6 | 2:1 Max | N-F | 1560x1450 |
| DS-10400 | 100-4000 | 150-30 | 6 | 2:1 | N-F | 1560x1450 |
| DS-10600 | 100-6000 | - | 0~10 | 2:1 | N-F | 1300 |
| DS-18100 | 180-1000 | - | 6 | 2:1 | N-F | 856x745 |
| DS-18200 | 180-2000 | - | 6 | 2:1 | N-F | 856x745 |
| DS-18300 | 180-3000 | - | 6 | 2:1 | N-F | 856x745 |
| DS-20100 | 200-1000 | - | 6 | 1.5:1 | N-F | 856x745 |
| DS-20200 | 200-2000 | - | 6 | 2:1 | N-F | 856x745 |
| DS-20300 | 200-3000 | - | 6 | 2:1 | N-F | 856x745 |
| DS-25100 | 250-1000 | - | 6 | 1.5:1 | N-F | 739x745x67 |
| DS-25200 | 250-2000 | - | 6 | 2:1 | N-F | 739x745x67 |
| DS-25300 | 250-3000 | - | 6 | 2:1 | N-F | 739x745x67 |
| DS-25100-H | 250-1000 | - | 8.5 | 2:1 | N-F | 628x1512x126 |
| DS-25200-H | 250-2000 | - | 8.5 | 2:1 | N-F | 628x1512x126 |
| DS-25300-H | 250-3000 | - | 8.5 | 2:1 | N-F | 628x1512x126 |
| DS-30100 | 300-1000 | 120-50 | 6 | 1.5:1Typ. 2.0:1Max | N-F | 745.5x738.8 |
| DS-30200 | 300-2000 | 120-50 | 6 | 1.5:1Typ. 2.0:1Max | N-F | 745.5x738.8 |
| DS-30300 | 300-3000 | 120-50 | 6 | 2.0:1Typ. 3.0:1Max | N-F | 745.5x738.8 |
| DS-40200 | 400-2000 | 140-30 | 6 | 1.5:1Typ. 2.0:1Max | N-F | 410.4x382 |
| DS-40200C | 400-2000 | 140-30 | 6 | 1.5:1Typ. 2.0:1Max | N-F | 410.4x374 |
| DS-40200E | 400-2000 | 140-30 | 6 | 1.5:1Typ. 2.0:1Max | N-F | 410.4x594 |
| DS-40300 | 400-3000 | 140-30 | 6 | 1.5:1Typ. 2.5:1Max | N-F | 410.4x382 |
| DS-40300C | 400-3000 | 140-30 | 6 | 1.5:1Typ. 2.5:1Max | N-F | 410.4x374 |
| DS-40300E | 400-3000 | 140-30 | 6 | 1.5:1Typ. 2.5:1Max | N-F | 410.4x594 |
| DS-50200 | 500-2000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x337 |
| DS-50200C | 500-2000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x329 |
| DS-50200E | 500-2000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x550 |
| DS-50300 | 500-3000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x337 |
| DS-50300C | 500-3000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x329 |
| DS-50300E | 500-3000 | 140-30 | 7 | 1.5:1Typ. 2.5:1Max | N-F | 355x550 |
| DS-50400 | 500-4000 | 140-30 | 7 | 2.0:1Typ. 3.0:1Max | N-F | 355x337 |



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| Model | Freq. Range (MHz) | 3dB Bandwidth (°) | Gain (dB) | VSWR Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|
| DS-50400C | 500-4000 | 140-30 | 7 | 2.0:1Typ.<br>3.0:1Max | N-F | 355x329 |
| DS-50400E | 500-4000 | 140-30 | 7 | 2.0:1Typ.<br>3.0:1Max | N-F | 355x550 |
| DS-50600 | 500-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x494.8 |
| DS-50600C | 500-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x487.1 |
| DS-50600E | 500-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x688.5 |
| DS-50800 | 500-8000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x494.8 |
| DS-50800C | 500-8000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x487.1 |
| DS-50800E | 500-8000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max. | N-F | 355x688.5 |
| DS-100600 | 1000-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max | N-F | 355x494.8 |
| DS-100600C | 1000-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max | N-F | 355x487.1 |
| DS-100600E | 1000-6000 | 110-40 | 7 | 2.0:1Typ.<br>3.0:1Max | N-F | 355x688.5 |


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## 2. Dual Linear Polarization



| Model | Frequency (MHz) | Pol. | Gain (dB) Typ. | VSWR Typ. | Cross Pol. Isolation (dB) Typ. | Connector | Size (mm) |
|---|---|---|---|---|---|---|---|
| DS-SJ-10100 | 0.1-1.0 | Dual | 7 | 2.0:1 | 20 | N-F | 1554.6X1554.6X1666.6 |
| DS-SJ-10200 | 0.1-2.0 | Dual | 7 | 2.0:1 | 20 | N-F | 1554.6X1554.6X1666.6 |
| DS-SJ-10300 | 0.1-3.0 | Dual | 7 | 2.0:1 | 20 | N-F | 1554.6X1554.6X1666.6 |
| DS-SJ-10400 | 0.1-4.0 | Dual | 7 | 2.0:1 | 20 | N-F | 1555x1555x1667 |
| | | | | | | | |
| DS-SJ-20100 | 0.2-1.0 | Dual | 7 | 2.0:1 | 20 | N-F | 857X857X1120 |
| DS-SJ-20200 | 0.2-2.0 | Dual | 7 | 2.0:1 | 20 | N-F | 857X857X1120 |
| DS-SJ-20300 | 0.2-3.0 | Dual | 7 | 2.0:1 | 20 | N-F | 857X857X1120 |
| DS-SJ-20400 | 0.2-4.0 | Dual | 7 | 2.0:1 | 20 | N-F | 857X857X1120 |

Note: Customized connector Type is available.



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# Log Periodic Antenna Accessories

| Cable Assemblies | Non-matel Tripod |
|---|---|
|  |  |

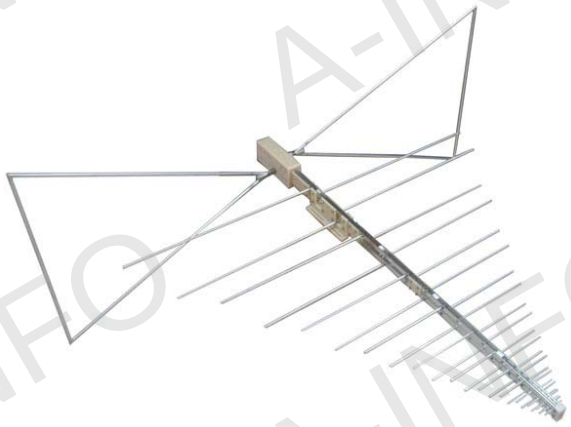
| Al Alloy Tipod | Wood Tripod |
|---|---|
|  |  |



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# Log Periodic Antenna 30~3000MHz

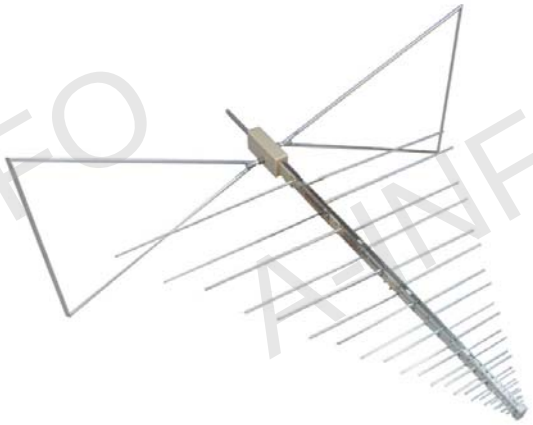
## P/N: DS-3300



### Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.03 - 3.0 |
| Gain(dB) | -10 - 6.0 Typ. |
| Polarization | Linear |
| VSWR | 10.0 Typ.(30-50MHz)<br>2.0 Typ.(50-100MHz)<br>1.5 Typ./ 2.0 Max (100-3000MHz) |
| Connector | N-Female |
| Power handling(W) | 300 CW |
| Size(mm) | 1734 x 1425 |
| Net Weight(Kg) | 3.5 Around |

## P/N: DS-3300E

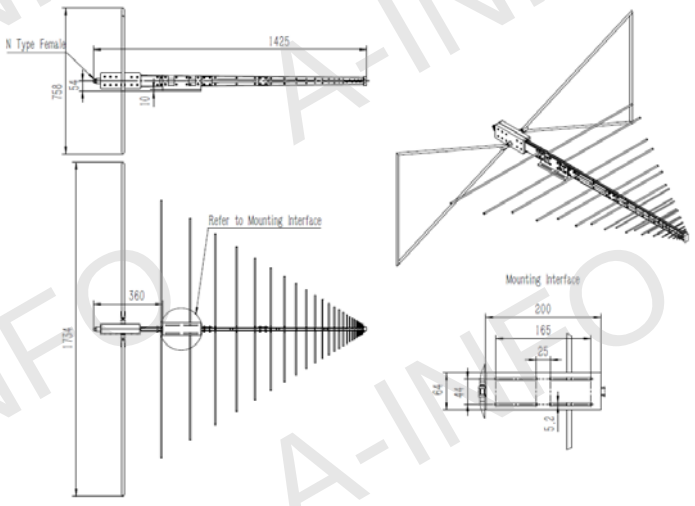


### Technical Specification

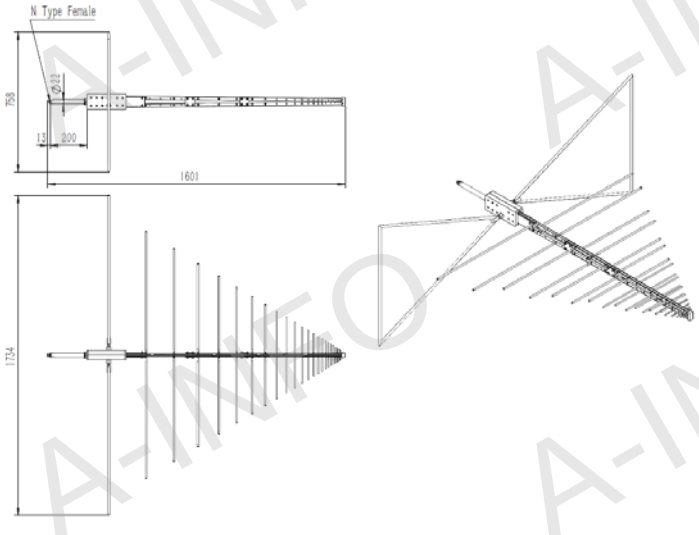
| | |
|---|---|
| Frequency Range(GHz) | 0.03 - 3.0 |
| Gain(dB) | -10 - 6.0 Typ. |
| Polarization | Linear |
| VSWR | 10.0 Typ.(30-50MHz)<br>2.0 Typ.(50-100MHz)<br>1.5 Typ./ 2.0 Max (100-3000MHz) |
| Connector | N-Female |
| Power handling(W) | 300 CW |
| Size(mm) | 1734 x 1601 |
| Net Weight(Kg) | 4.3 Around |

## Outline Drawing (Size: mm)

DS-3300 with Mounting Bracket




DS-3300E



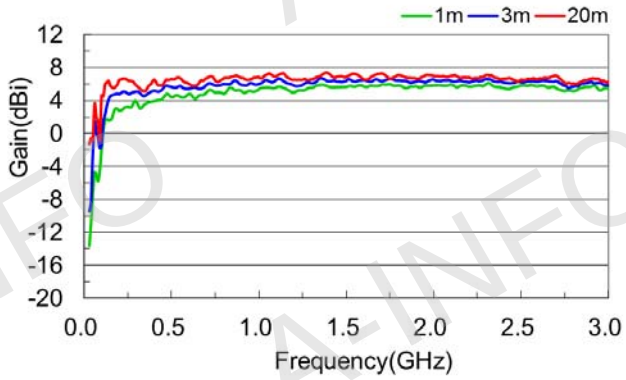



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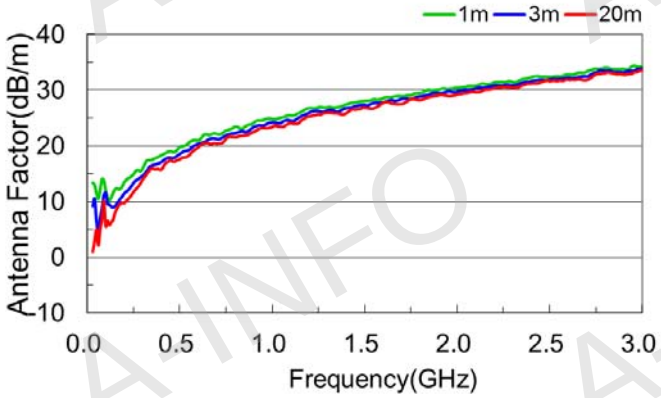
# Log Periodic Antenna 30~3000MHz(continued)

**P/N: DS-3300**

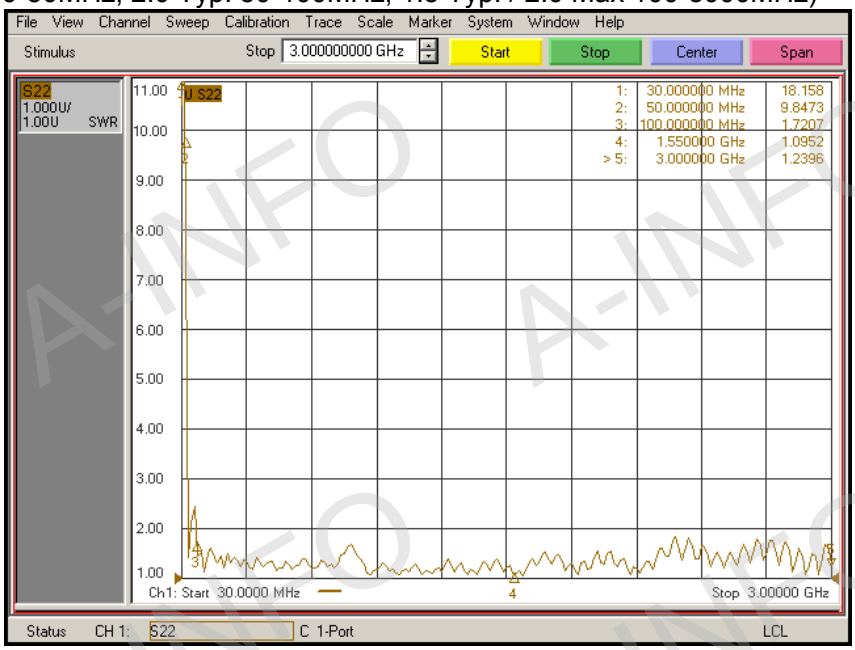
## Gain



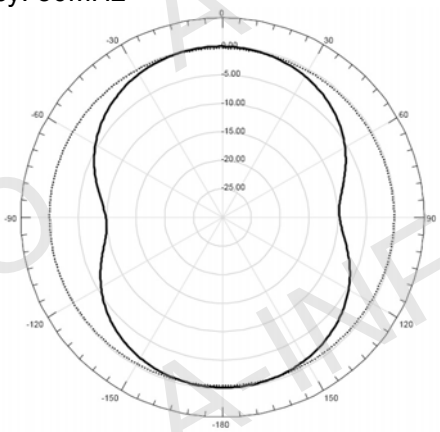
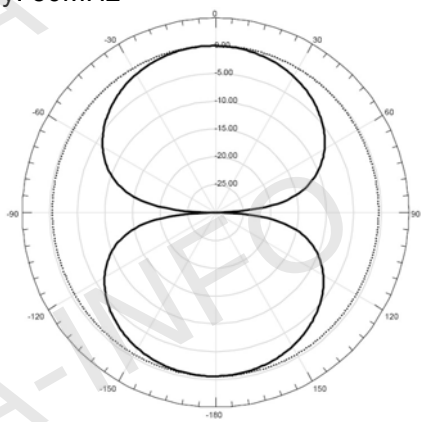

## Antenna Factor




**VSWR** (10.0 Typ. 30-50MHz, 2.0 Typ. 50-100MHz, 1.5 Typ. / 2.0 Max 100-3000MHz)




## Pattern

| Frequency: 30MHz | Frequency: 50MHz |
|---|---|
|  |  |
| H-Plane ——— E-Plane - - - - - | H-Plane ——— E-Plane - - - - - |



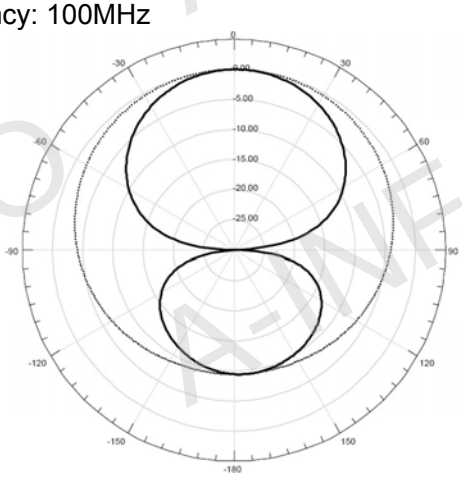
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# Log Periodic Antenna 30~3000MHz(continued)

**P/N: DS-3300**

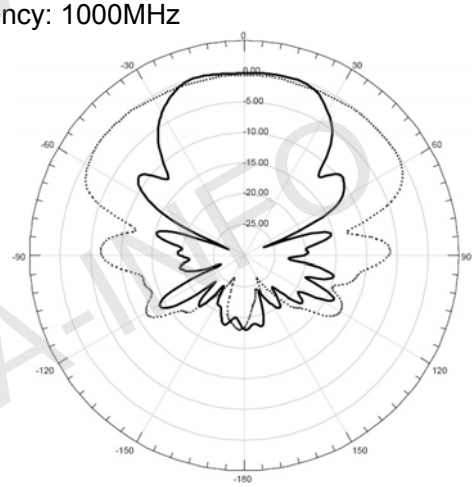
**Pattern**

Frequency: 100MHz



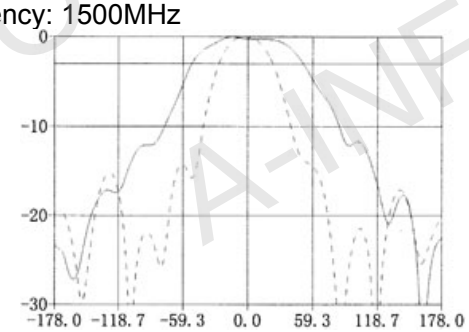
H-Plane ——— E-Plane - - - -

Frequency: 1000MHz



H-Plane —— E-Plane - - - -

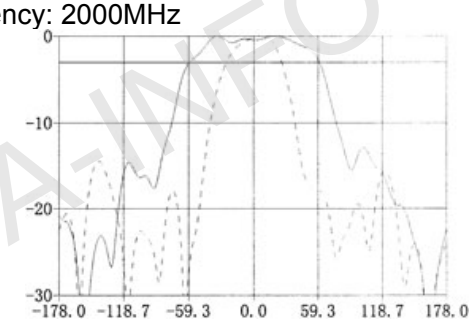
Frequency: 1500MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 101.99 3dB Beamwidth (deg): 49.17

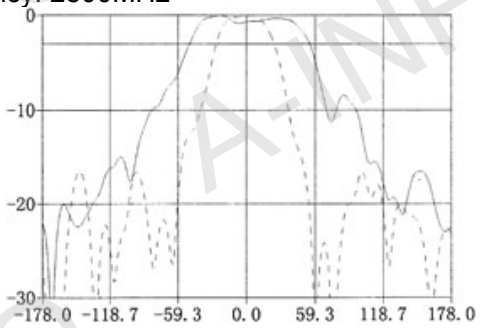
Frequency: 2000MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 119.28 3dB Beamwidth (deg): 50.88

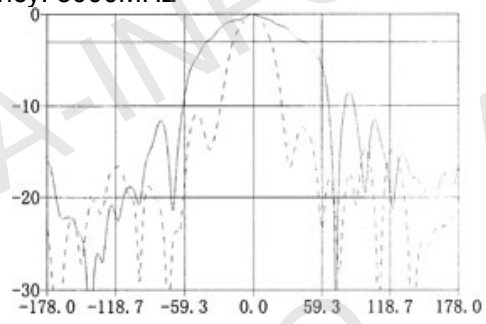
Frequency: 2500MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 103.92 3dB Beamwidth (deg): 49.86

Frequency: 3000MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 83.80 3dB Beamwidth (deg): 32.52



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# Log Periodic Antenna 100~400MHz

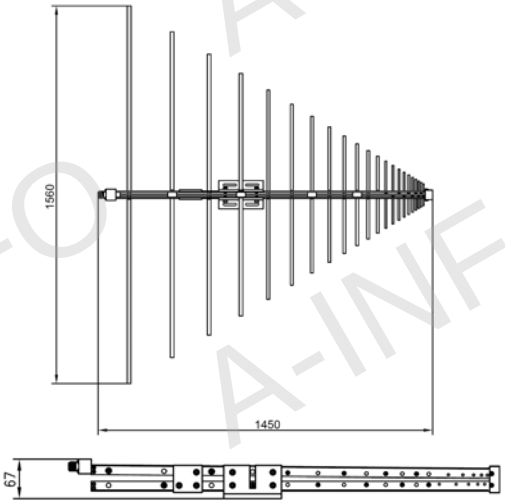
**P/N: DS-1040**



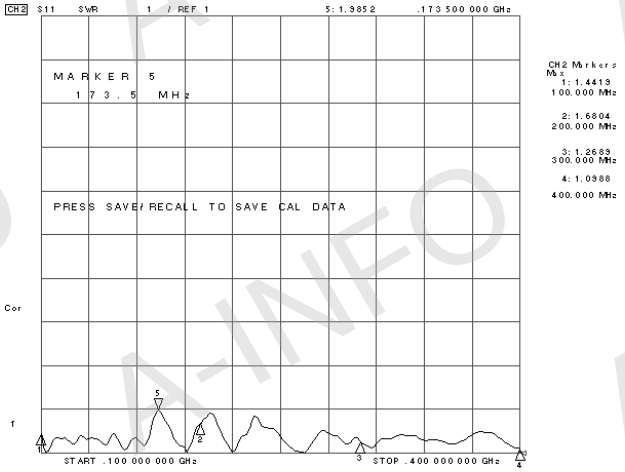
## Technical Specification

| | |
|---|---|
| **Polarization** | Linear |
| **Frequency Range(MHz)** | 100-400 |
| **Gain(dB)** | 6 Typ. |
| **VSWR** | 2:1 Max |
| **Connector** | N-Female |
| **Size(mm)** | 1560 x 1450 |
| **Net Weight(Kg)** | 2.5 Around |

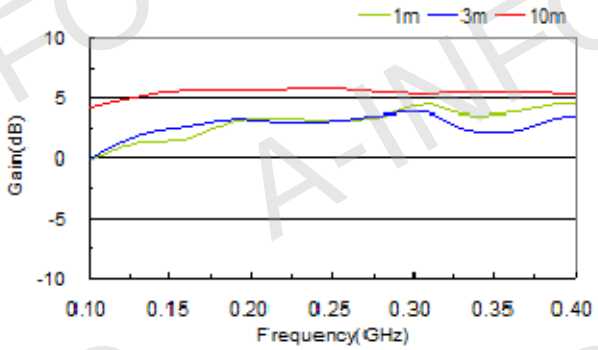
## Outline Drawing(Size: mm)



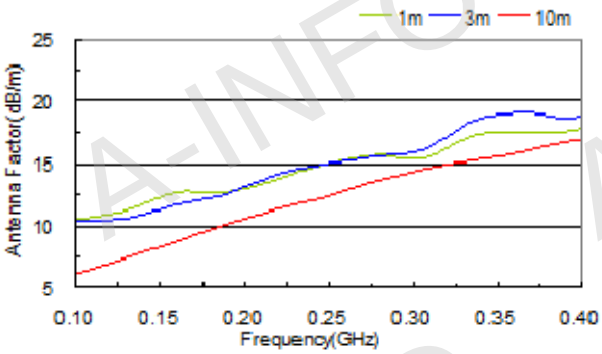

## VSWR




## Gain




## Antenna Factor





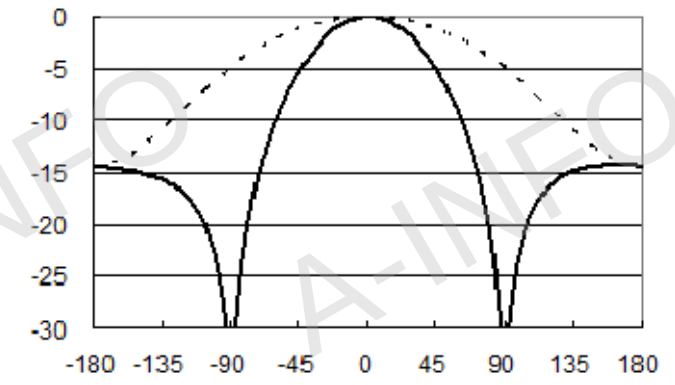

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# Log Periodic Antenna 100~400MHz(continued)

**P/N: DS-1040**

**Pattern**

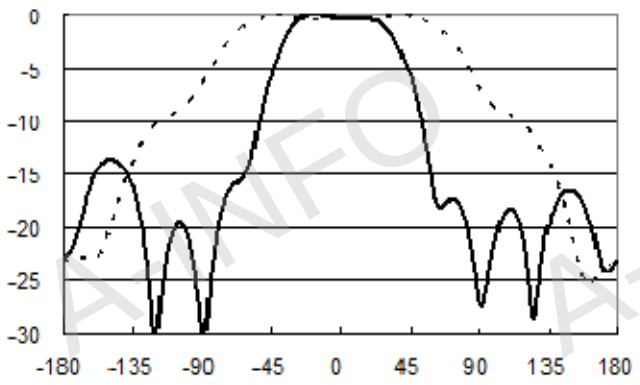
Frequency: 0.1GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 68.2 3dB Beamwidth (deg): 142.4

Frequency: 0.3GHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg):77.4 3dB Beamwidth (deg): 150.2



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# Log Periodic Antenna 100~4000MHz

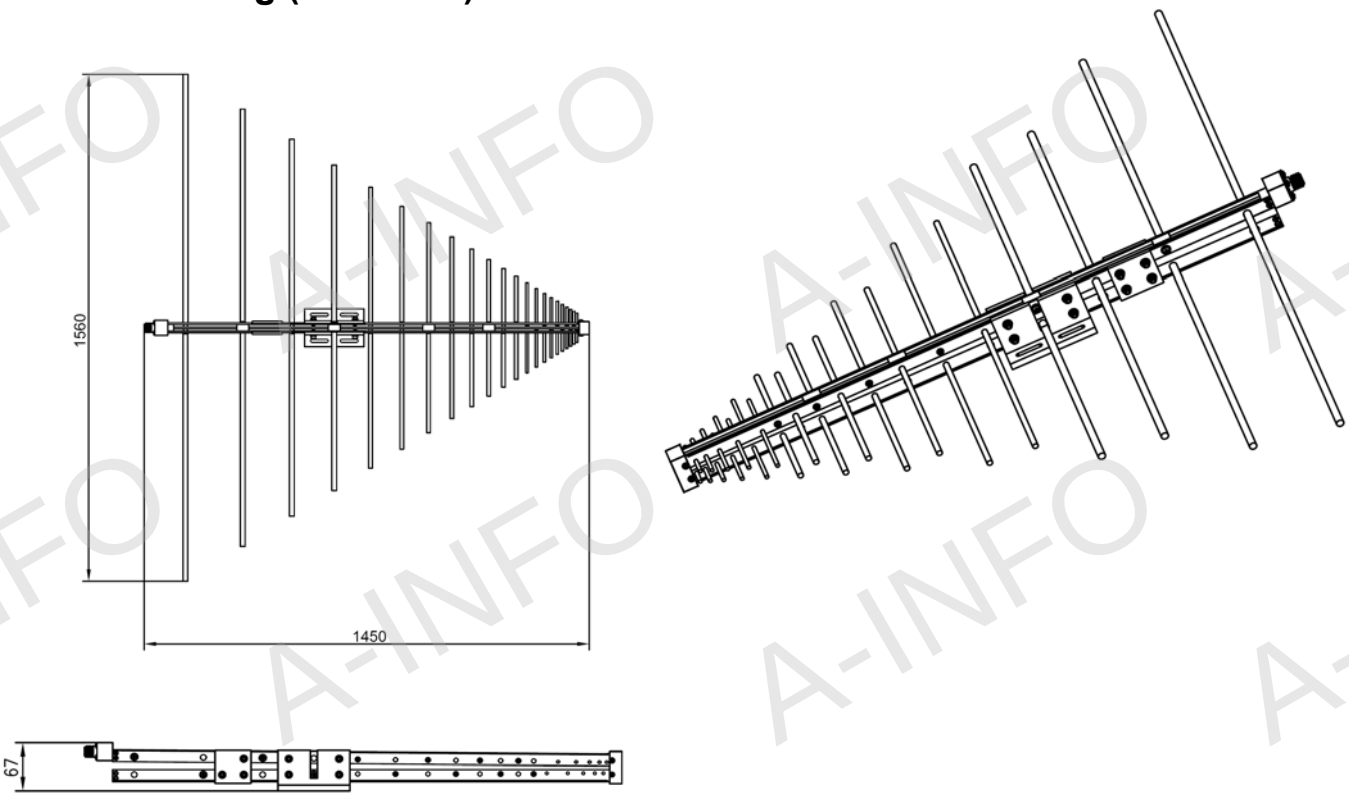
**P/N: DS-10400**



## Technical Specificatiion

| | |
|---|---|
| Frequency Range(GHz) | 0.1 - 4.0 |
| Gain(dB) | 6 Typ. |
| Polarization | Linear |
| VSWR | 2.0 Typ. |
| Connector | N-Female |
| Size(mm) | 1560 x 1450 |
| Net Weight(Kg) | 2.5 Around |

## Outline Drawing (Size: mm)



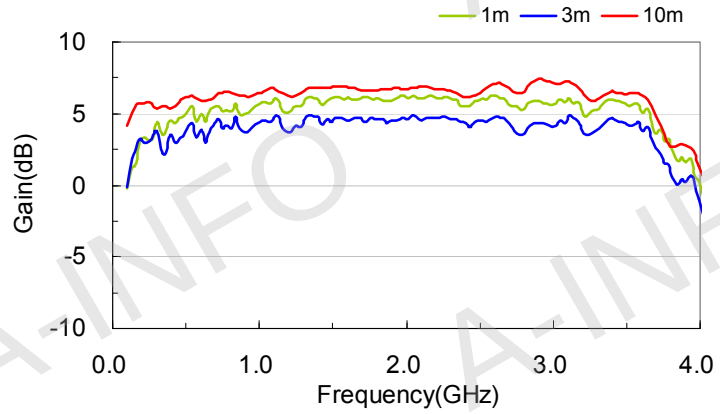



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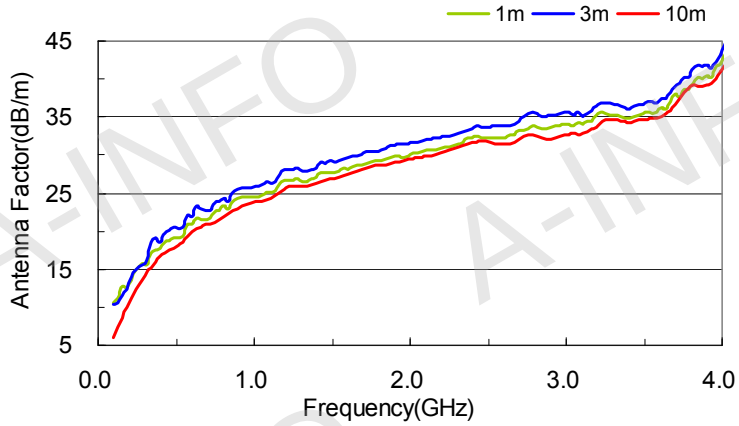
# Log Periodic Antenna 100~4000MHz(continued)

**P/N: DS-10400**

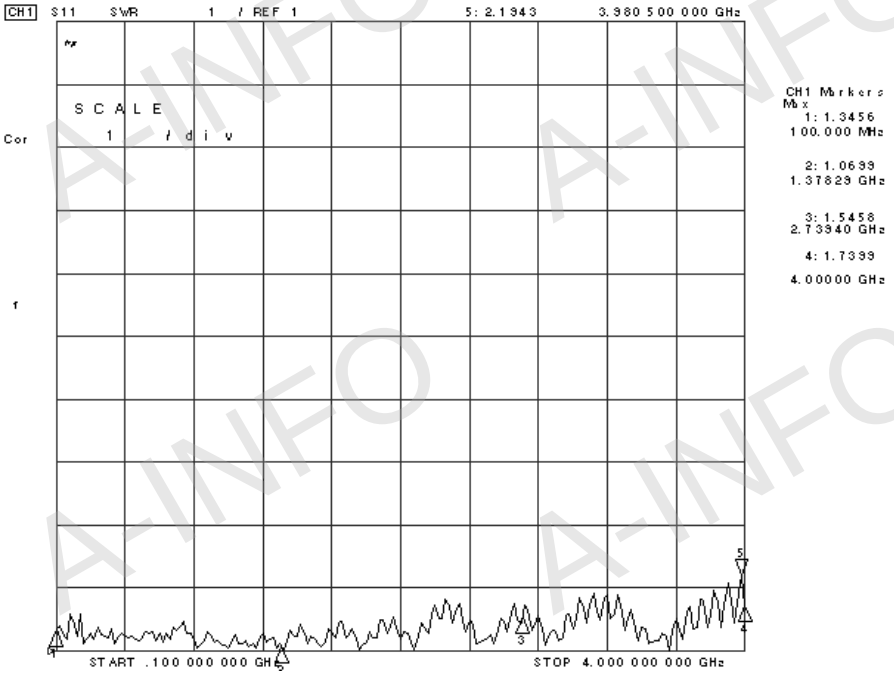
## Gain




## Antenna Factor




## VSWR





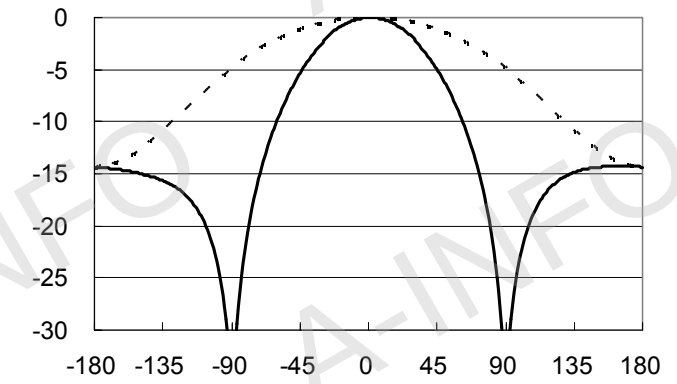

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# Log Periodic Antenna 100~4000MHz(continued)

**P/N: DS-10400**

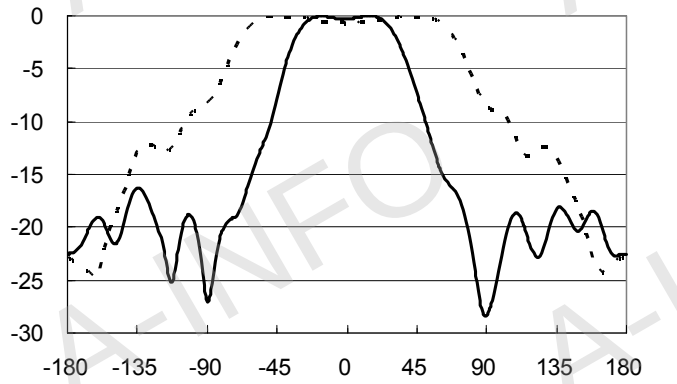
## Pattern

Frequency: 0.1GHz



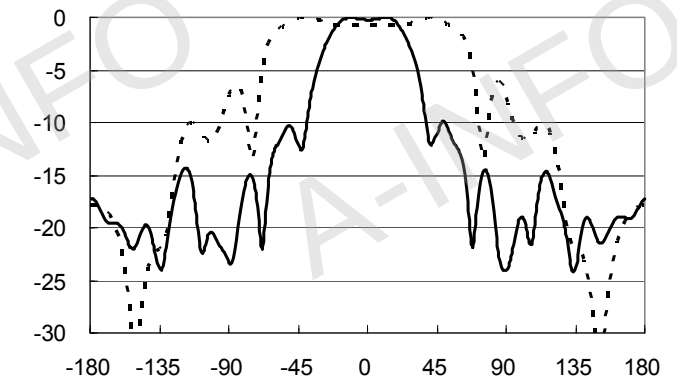

3dB Beamwidth (deg): 68.2 3dB Beamwidth (deg): 142.4

Frequency: 0.5GHz



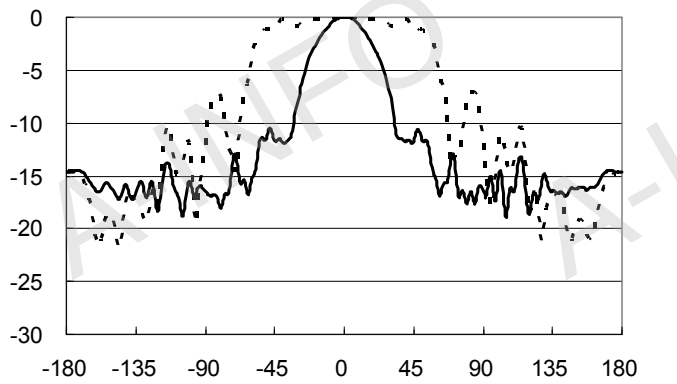

3dB Beamwidth (deg): 71.4 3dB Beamwidth (deg): 143.8

Frequency: 1.0GHz



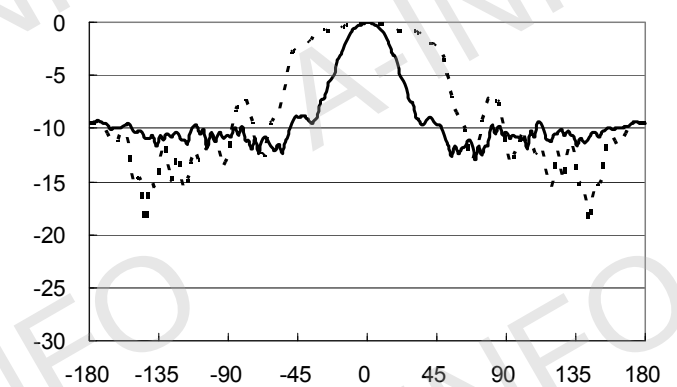

3dB Beamwidth (deg): 56.8 3dB Beamwidth (deg): 130.2

Frequency: 2.0GHz



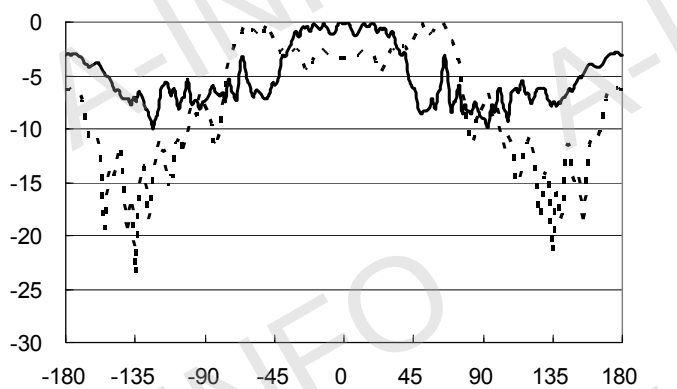

3dB Beamwidth (deg):40.6 3dB Beamwidth (deg): 117.2

Frequency: 3.0GHz




3dB Beamwidth (deg): 34.4 3dB Beamwidth (deg): 98.6

Frequency: 4.0GHz




3dB Beamwidth (deg):73.6 3dB Beamwidth (deg): 147.6



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# Log Periodic Antenna 180~3000MHz

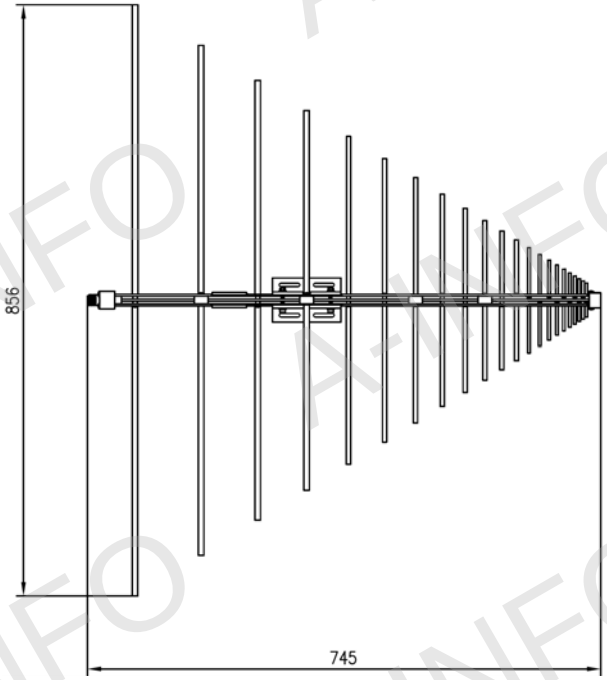
**P/N: DS-18300**

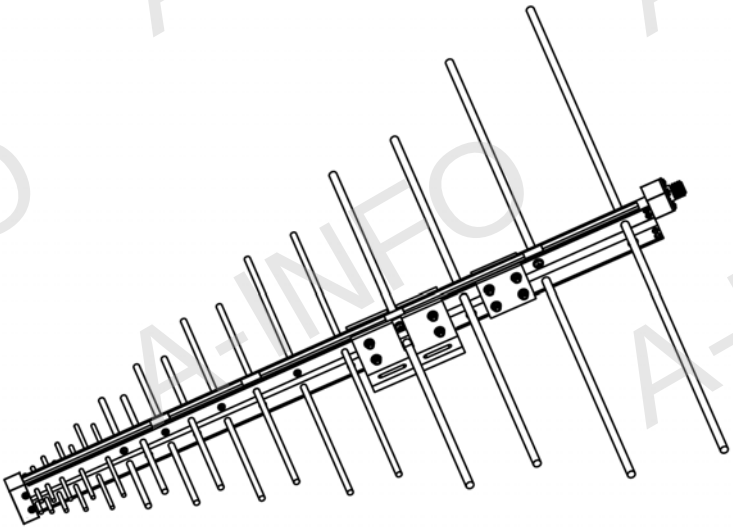


## Technical Specification

| | |
|---|---|
| Polarization | Linear |
| Frequency(MHz) | 180-3000 |
| Gain(dB) | 6 Typ. |
| VSWR | 2.0 Typ. |
| Connector | N-F |
| Size(mm) | 856 x 745 |
| Net Weigth(Kg) | 1.0 Around |

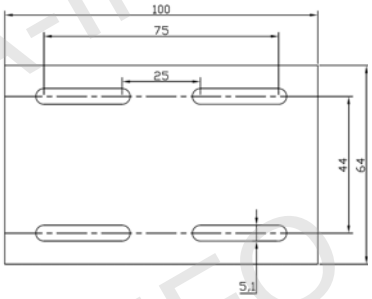
## Outline Drawing(Size: mm)






## Mounting Plates



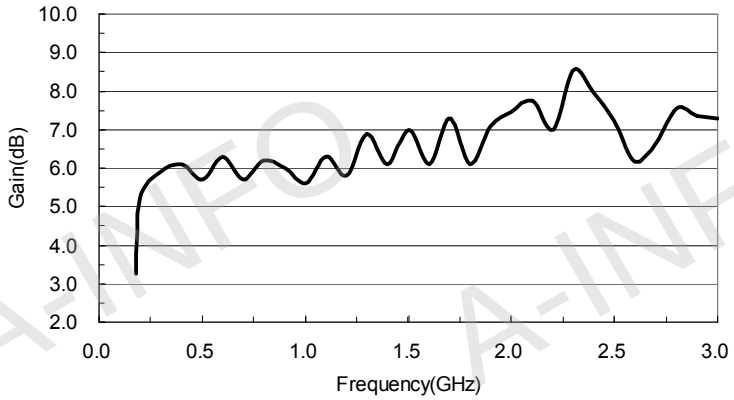



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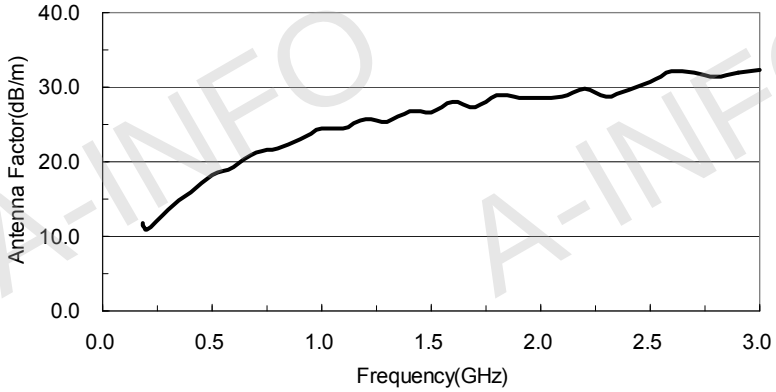
# Log Periodic Antenna 180~3000MHz(continued)

**P/N: DS-18300**

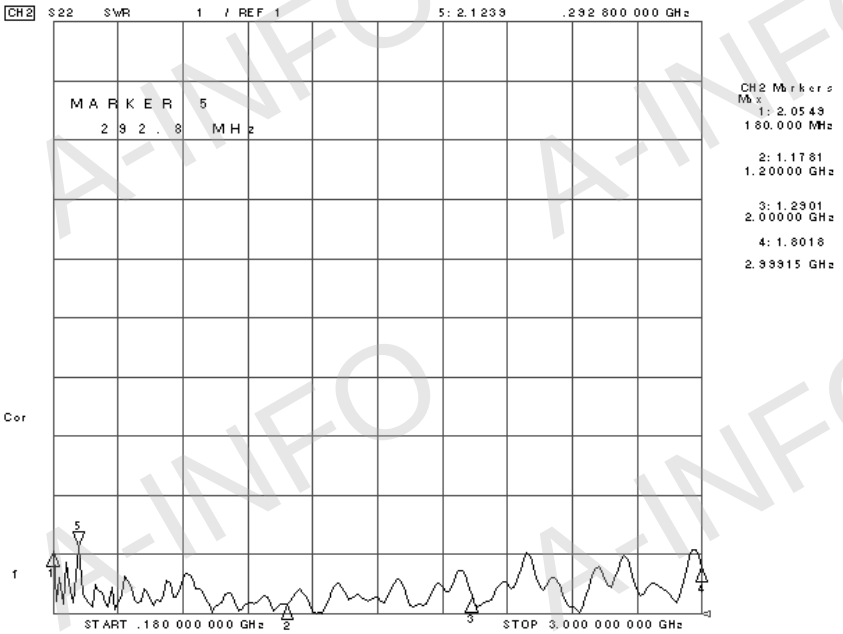
## Gain




## Antenna Factor




## VSWR





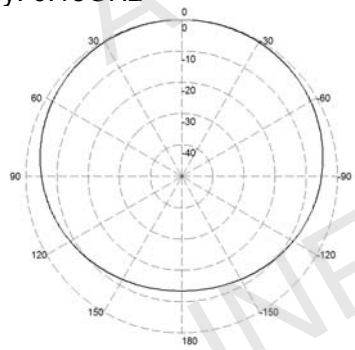

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# Log Periodic Antenna 180~3000MHz(continued)

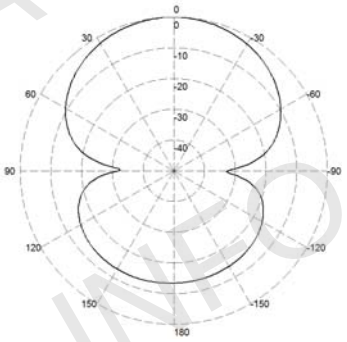
**P/N: DS-18300**

**Pattern**

Frequency: 0.18GHz

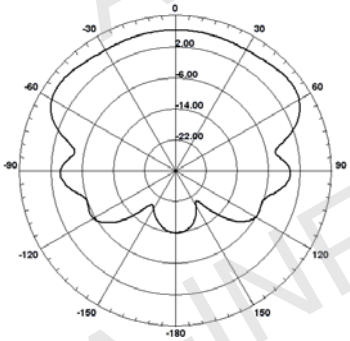


E -Plane

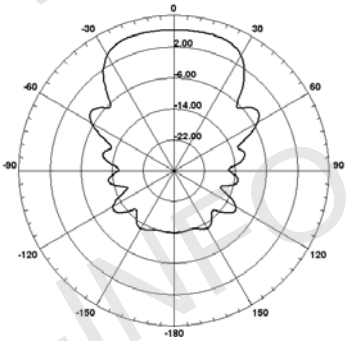


H -Plane

Frequency: 1.0GHz

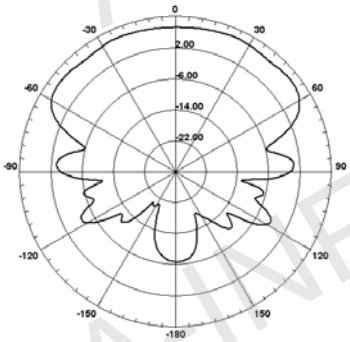


E -Plane

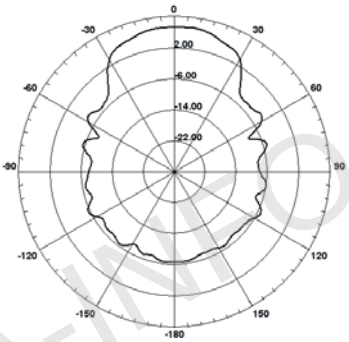


H -Plane

Frequency: 2.0GHz

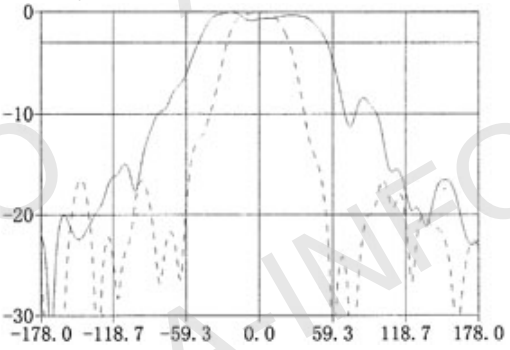


E -Plane

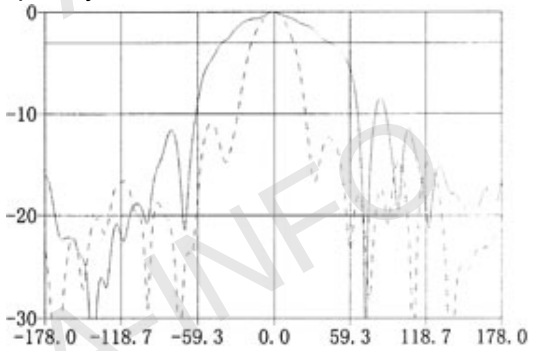


H -Plane

Frequency: 2.5GHz




Frequency: 3.0GHz






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# Log Periodic Antenna 200~2000MHz

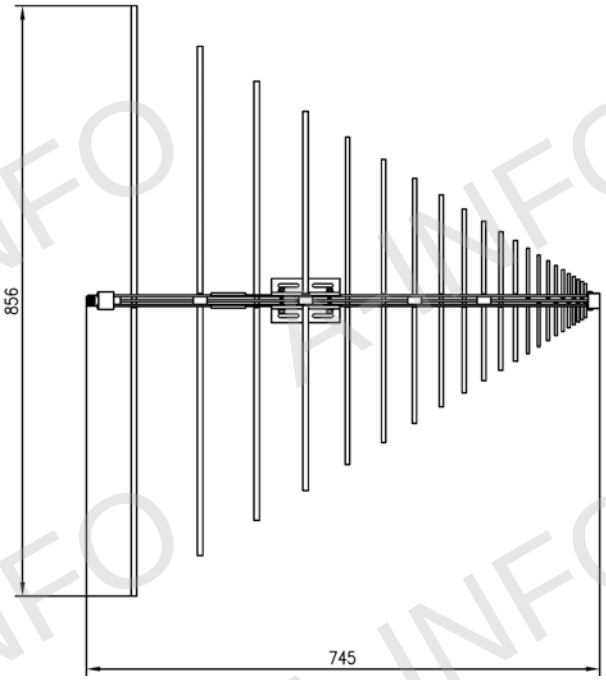
**P/N: DS-20200**

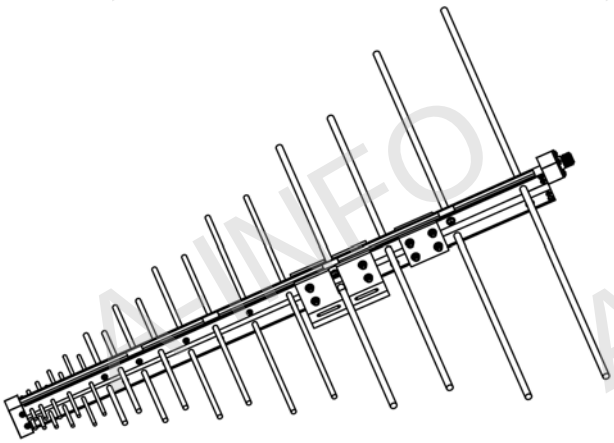


## Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 200-2000 |
| Gain(dB) | 6 Typ. |
| Polarization | Linear |
| VSWR | 2.0 :1Typ. |
| Connector | N-Female |
| Size(mm) | 856 x 745 |
| Net Weight(Kg) | 1.0 Around |

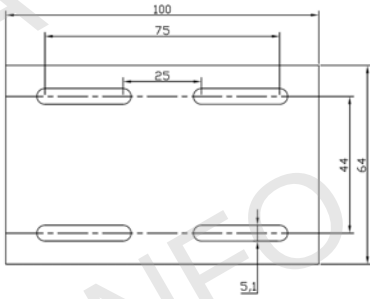
## Outline Drawing(Size: mm)






## Mounting Bracket



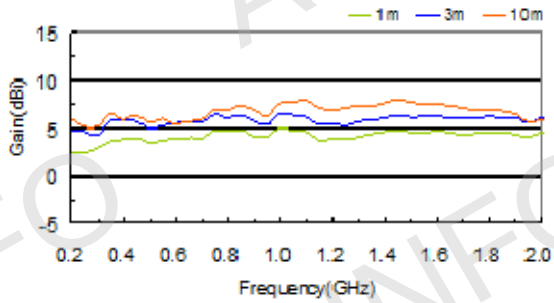



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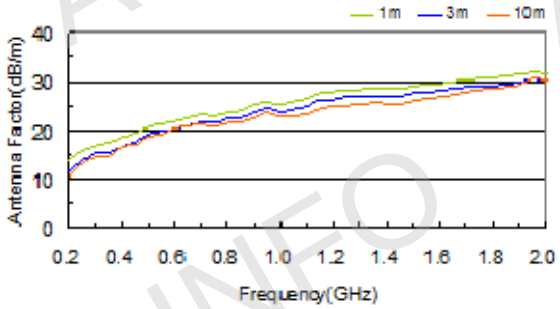
# Log Periodic Antenna 200~2000MHz(continued)

**P/N: DS-20200**

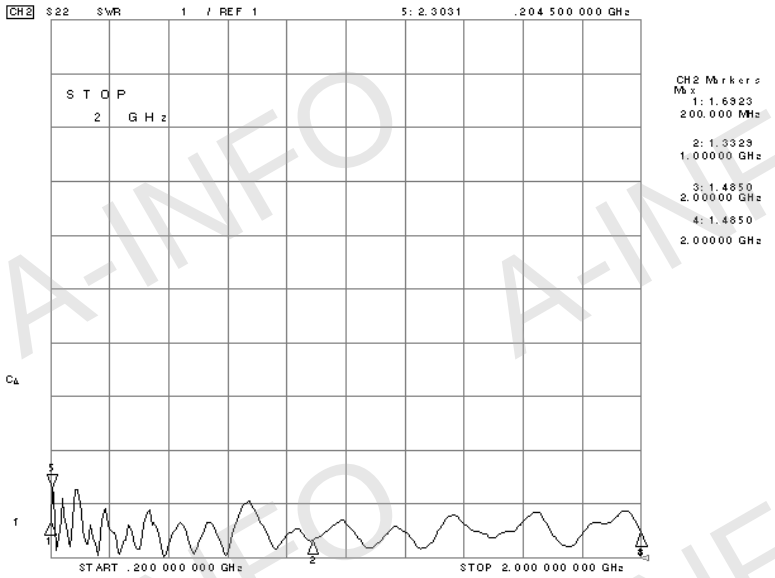
## Gain




## Antenna Factor




## VSWR





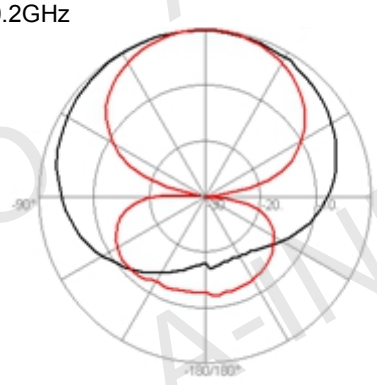

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# Log Periodic Antenna 200~2000MHz(continued)

**P/N: DS-20200**

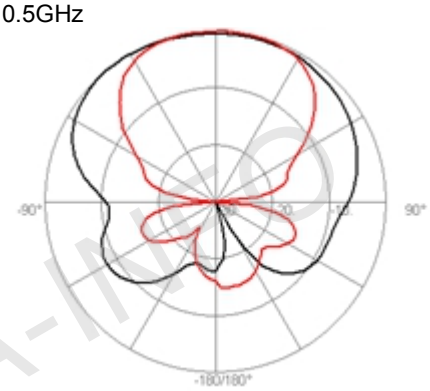
**Pattern**

Frequency: 0.2GHz



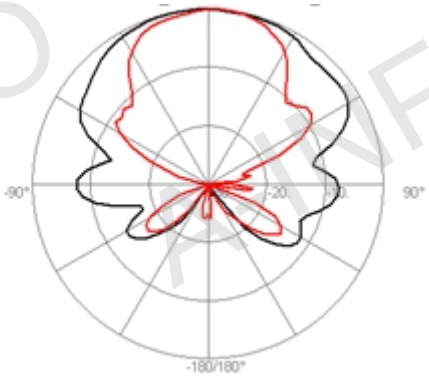
H-Plane ——— E-Plane ———
3dB Beamwidth(deg): 69.12 3dB Beamwidth(deg):134.51

Frequency: 0.5GHz



H-Plane ——— E-Plane ———
3dB Beamwidth(deg): 75.51 3dB Beamwidth(deg): 132.97

Frequency: 1.0GHz



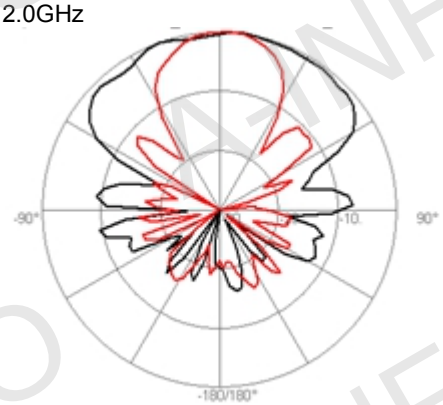
H-Plane ——— E-Plane ———
3dB Beamwidth(deg): 55.01 3dB Beamwidth(deg): 108.94

Frequency:1.5GHz



H-Plane ——— E-Plane ———
3dB Beamwidth(deg): 45.56 3dB Beamwidth(deg): 116.34

Frequency: 2.0GHz



H-Plane ——— E-Plane ———
3dB Beamwidth(deg): 39.81 3dB Beamwidth(deg): 111.67



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# Log Periodic Antenna 250~3000MHz, High Gain

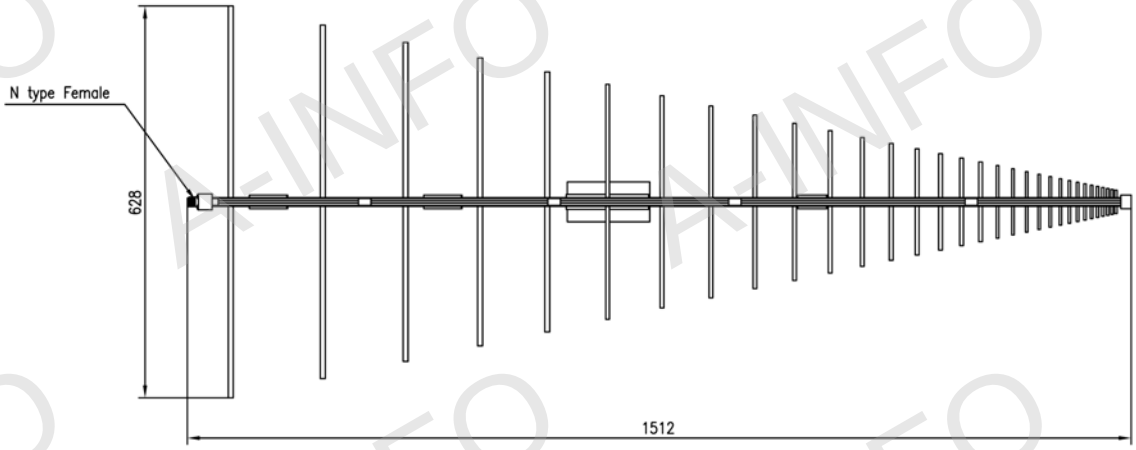
**P/N: DS-25300-H**

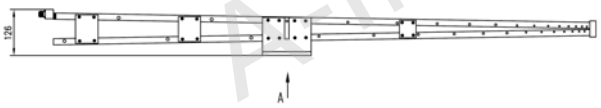


## Technical Specification

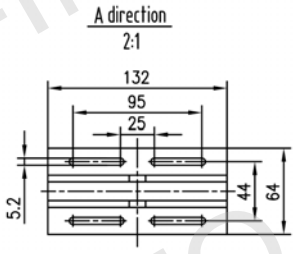
| | |
|---|---|
| **Polarization** | Linear |
| **Frequency Range(MHz)** | 250-3000 |
| **Gain(dB)** | 8.5 Typ. |
| **VSWR** | 2.0 Typ |
| **Connector** | N-Female |
| **Size(mm)** | 628x1512x126 |
| **Net Weight(Kg)** | 2.0 Around |

## Outline Drawing(Size: mm)




## Mounting Bracket



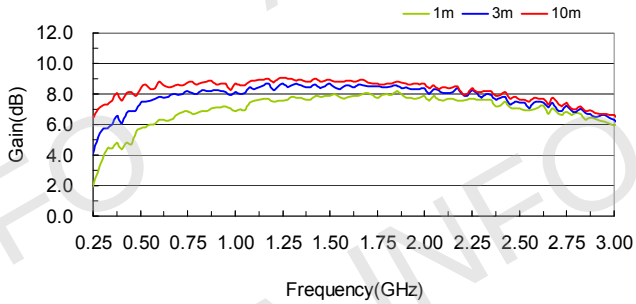



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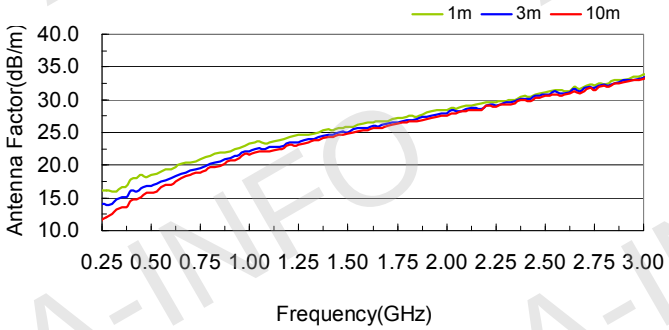
# Log Periodic Antenna 250~3000MHz, High Gain (continued)

**P/N: DS-25300-H**

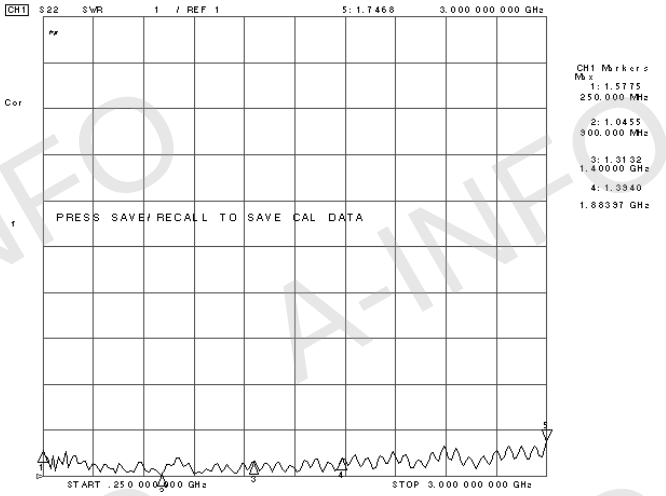
## Gain



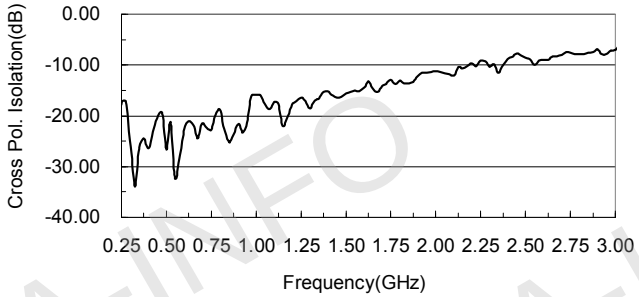

## Antenna Factor




## VSWR

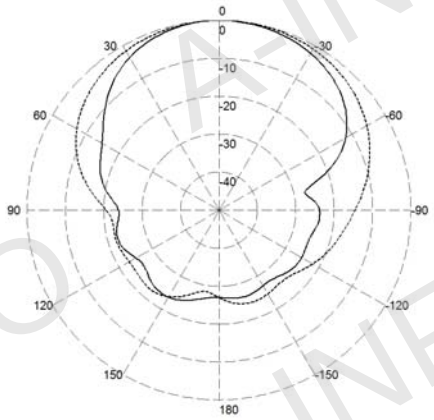



## Cross Polarization Isolation



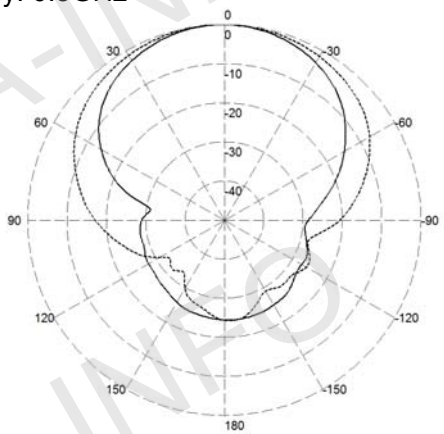

## Pattern

Frequency: 0.25GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 62 3dB Beamwidth (deg): 89

Frequency: 0.5GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 59 3dB Beamwidth (deg): 86

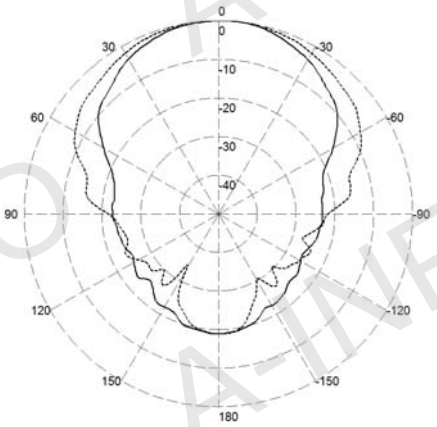


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# Log Periodic Antenna 250~3000MHz, High Gain (continued)

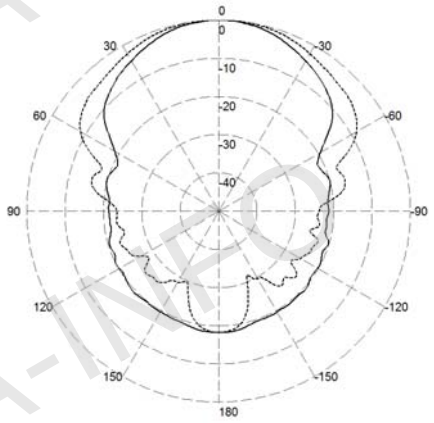
**P/N: DS-25300-H**

Frequency: 1.0GHz



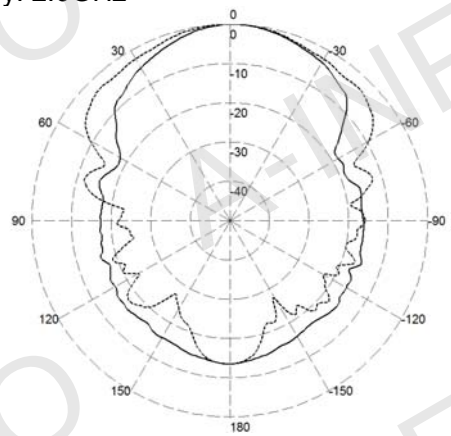

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 53 3dB Beamwidth (deg): 73

Frequency: 1.5GHz



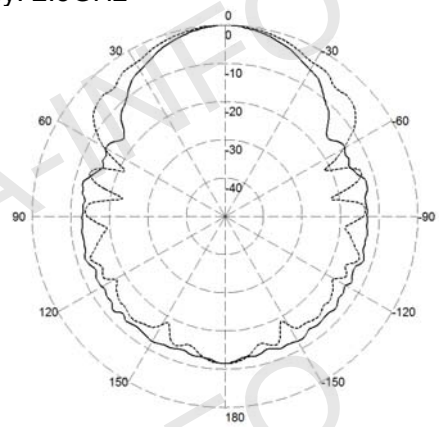

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 47 3dB Beamwidth (deg): 66

Frequency: 2.0GHz



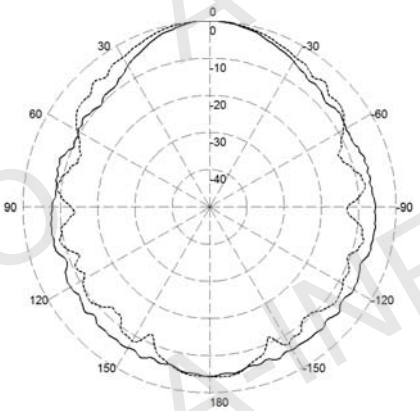

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 48 3dB Beamwidth (deg): 71

Frequency: 2.5GHz




H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 40 3dB Beamwidth (deg): 51

Frequency: 3.0GHz



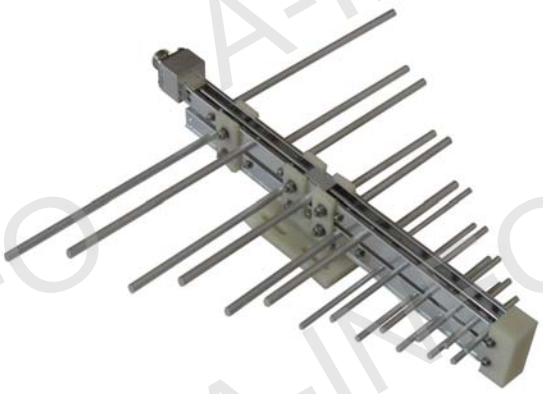

H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 42 3dB Beamwidth (deg): 54



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# Log Periodic Antenna 400~3000MHz

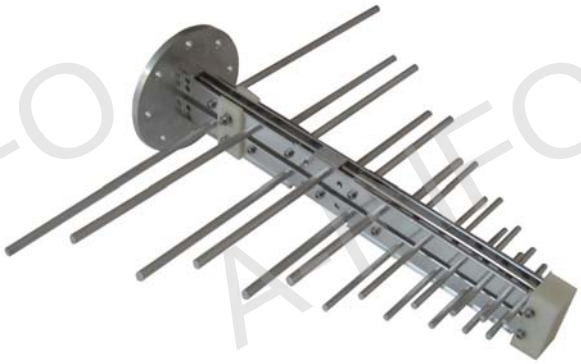
**P/N: DS-40300**



## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.4 - 3.0 |
| Gain(dB) | 6.0 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ. |
| | 2.5 Max |
| Output | N-Female |
| Size(mm) | 410.4 x 382 |
| Net Weight(Kg) | 0.6 Around |

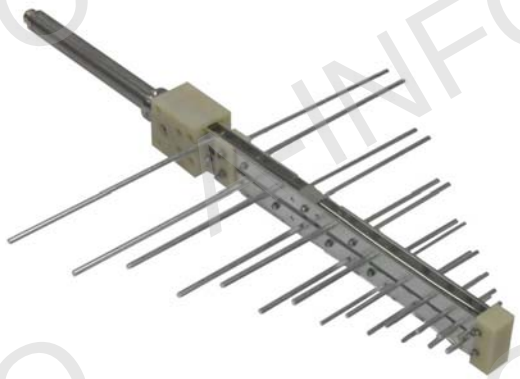
**P/N: DS-40300**



## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.4 - 3.0 |
| Gain(dB) | 6.0 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ. |
| | 2.5 Max |
| Output | N-Female |
| Size(mm) | 410.4 x 374 |
| Net Weight(Kg) | 0.6 Around |

**P/N: DS-40300**



## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.4 - 3.0 |
| Gain(dB) | 6.0 Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ. |
| | 2.5 Max |
| Output | N-Female |
| Size(mm) | 410.4 x 594 |
| Net Weight(Kg) | 0.85 Around |



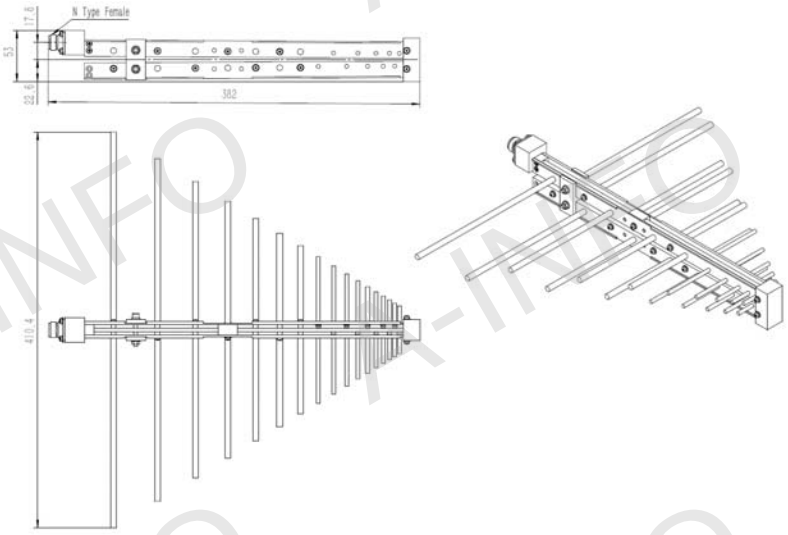
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# Log Periodic Antenna 400~3000MHz(continued)

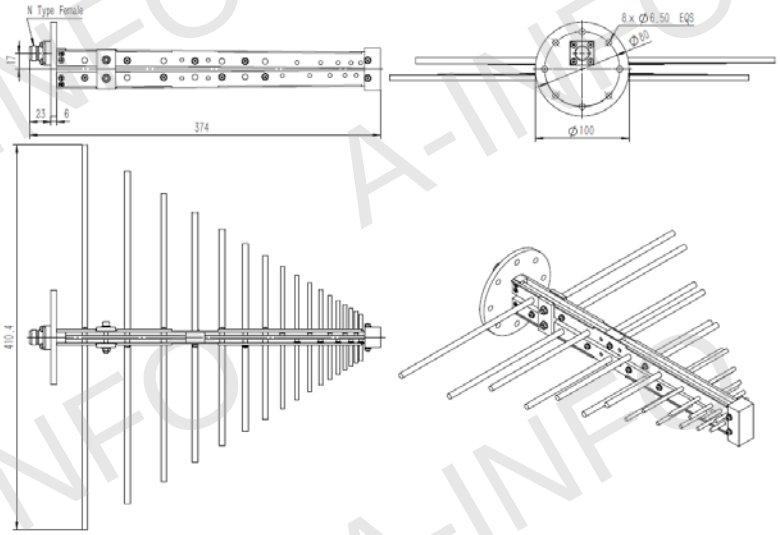
**P/N: DS-40300**

**Outline Drawing(Size: mm)**

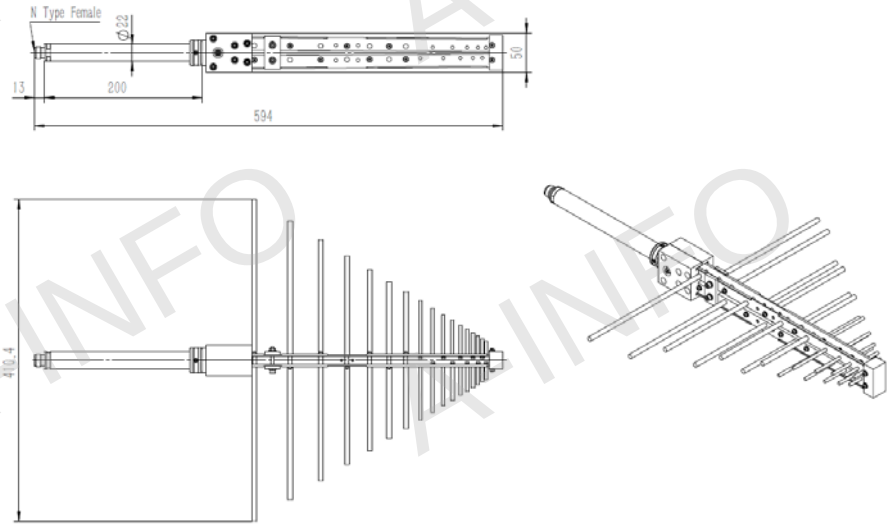
DS-40300




DS-40300C




DS-40300E





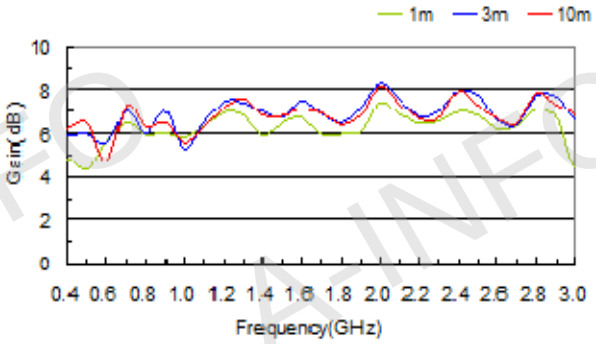

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# Log Periodic Antenna 400~3000MHz(continued)

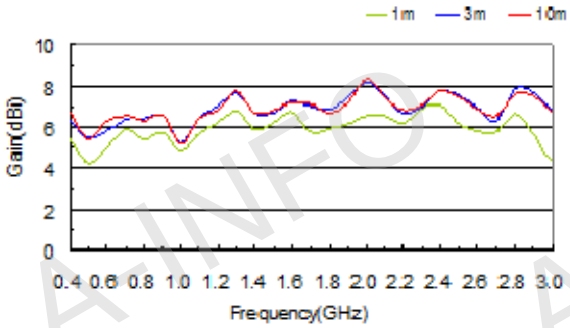
## P/N: DS-40300

### Gain

#### Horizontal Pol.

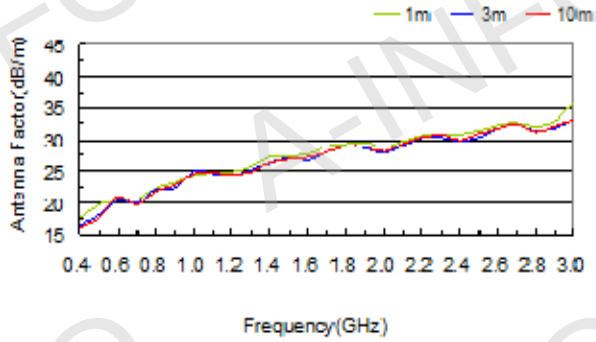



#### Vertical Pol.

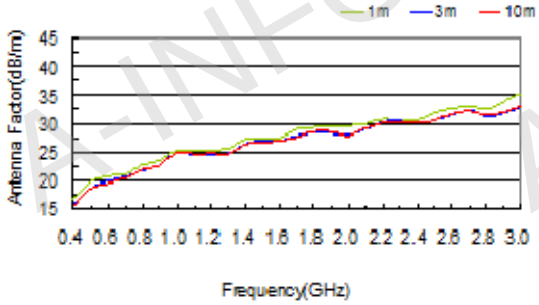



### Antenna Factor

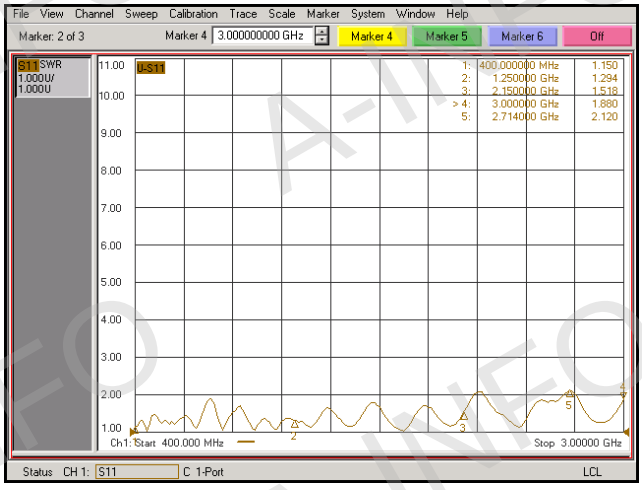
#### Horizontal Pol.



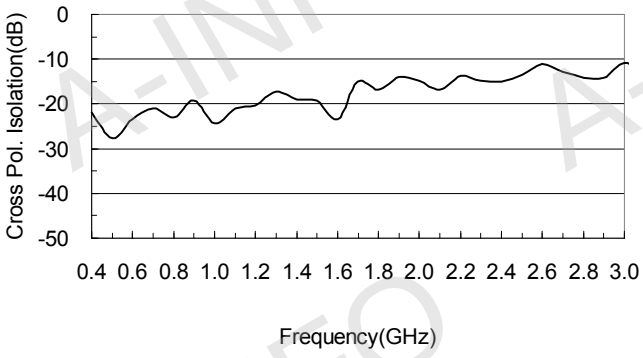

#### Vertical Pol.




### VSWR




### Cross Polarization Isolation



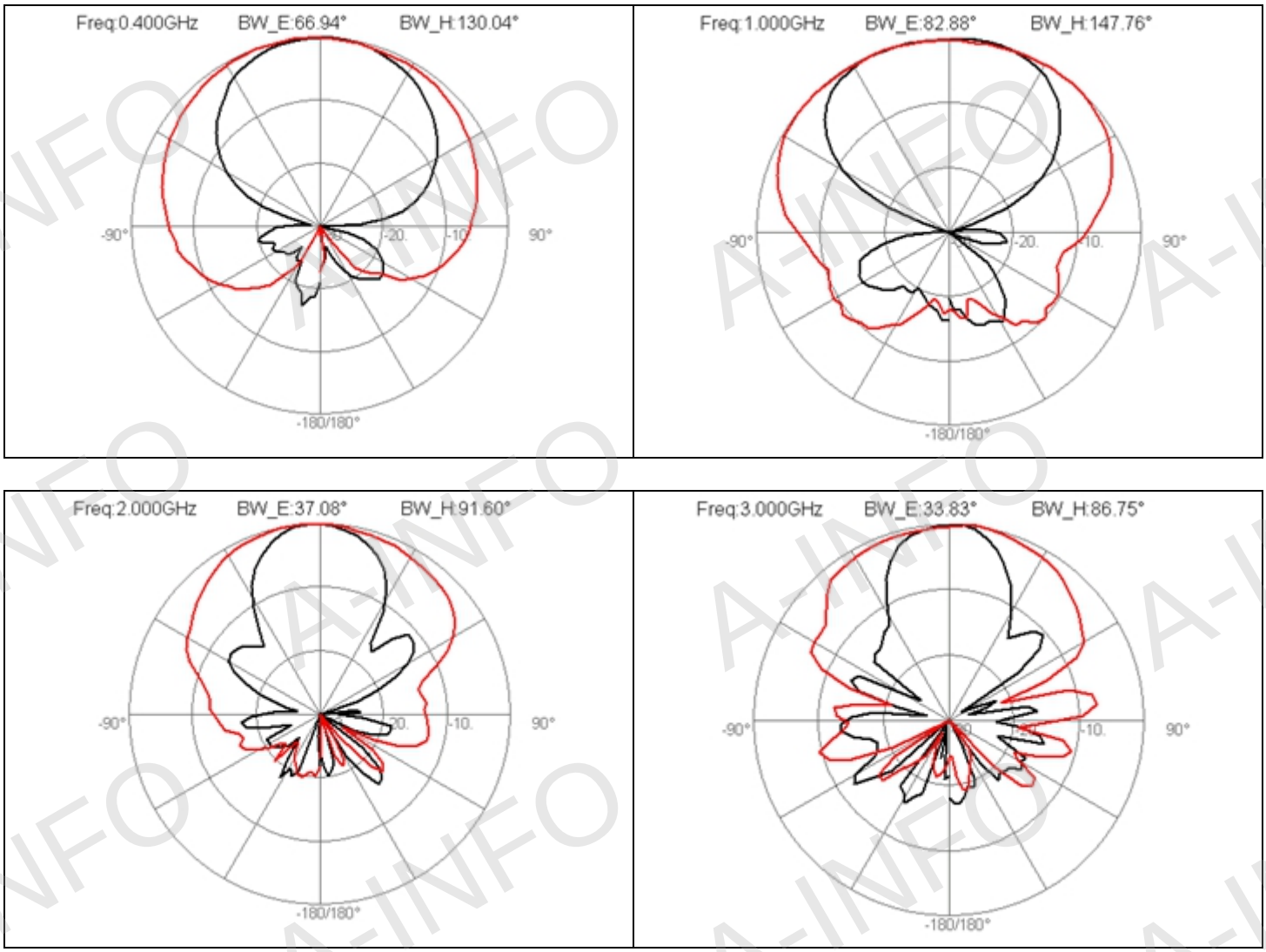



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# Log Periodic Antenna 400~3000MHz(continued)

**P/N: DS-40300**

**Pattern**

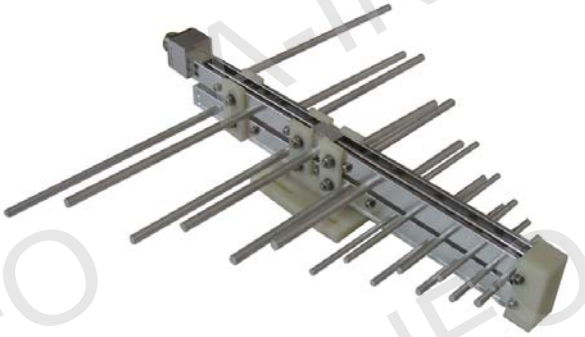





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# Log Periodic Antenna 500~3000MHz

## P/N: DS-50300



### Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 0.5-3.0 |
| Gain(dB) | 7.0Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ |
| | 2.5 Max |
| Connector | N-Female |
| Size(mm) | 355 x 337 |
| Net Weight(Kg) | 0.5 Around |

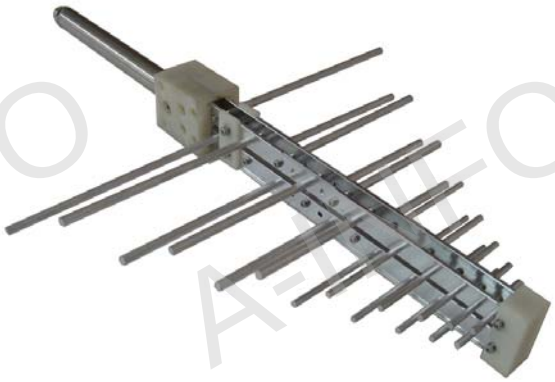
## P/N: DS-50300C



### Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 0.5-3.0 |
| Gain(dB) | 7.0Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ |
| | 2.5 Max |
| Connector | N-Female |
| Size(mm) | 355 x 329 |
| Net Weight(Kg) | 0.6 Around |

## P/N: DS-50300E



### Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 0.5-3.0 |
| Gain(dB) | 7.0Typ. |
| Polarization | Linear |
| 3dB Beamwidth(deg) | 140-30 |
| VSWR | 1.5 Typ |
| | 2.5 Max |
| Connector | N-Female |
| Size(mm) | 355 x 550 |
| Net Weight(Kg) | 0.7 Around |



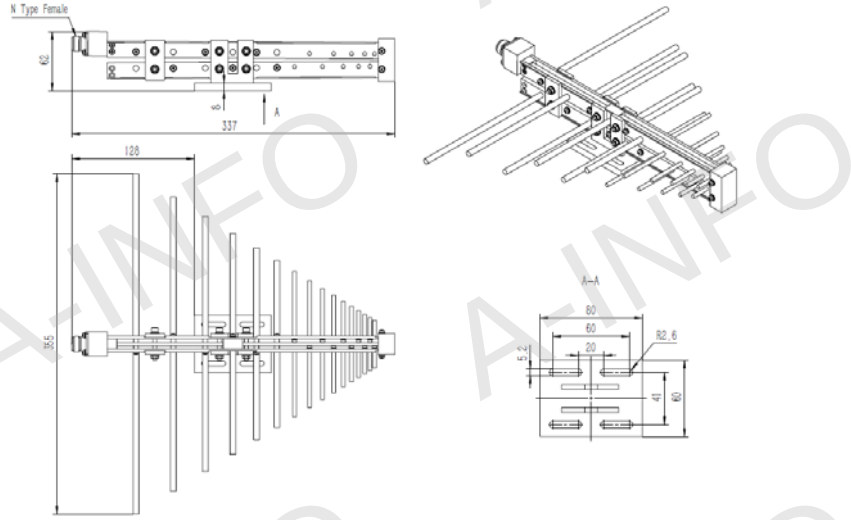
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China(Chengdu): Tel: (+86) 28-8519-2786, (+86) 28-8519-3044 Fax: (+86) 28-8519-3068
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# Log Periodic Antenna 500~3000MHz(continued)

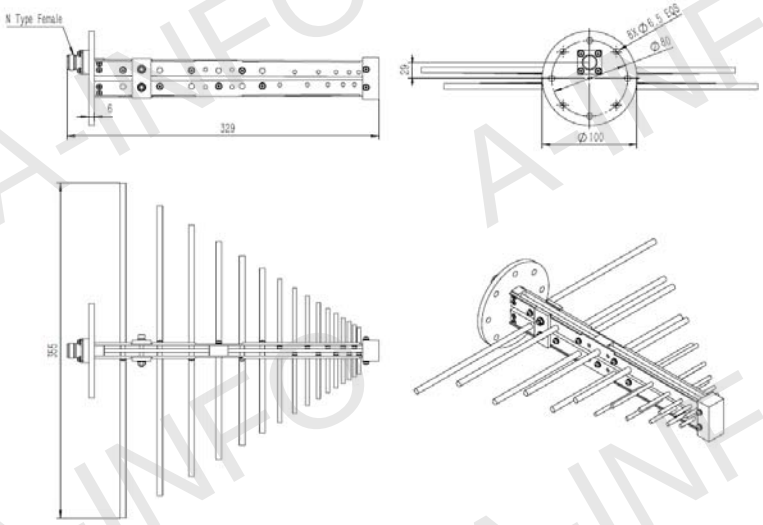
**P/N: DS-50300**

**Outline Drawing (Size: mm)**

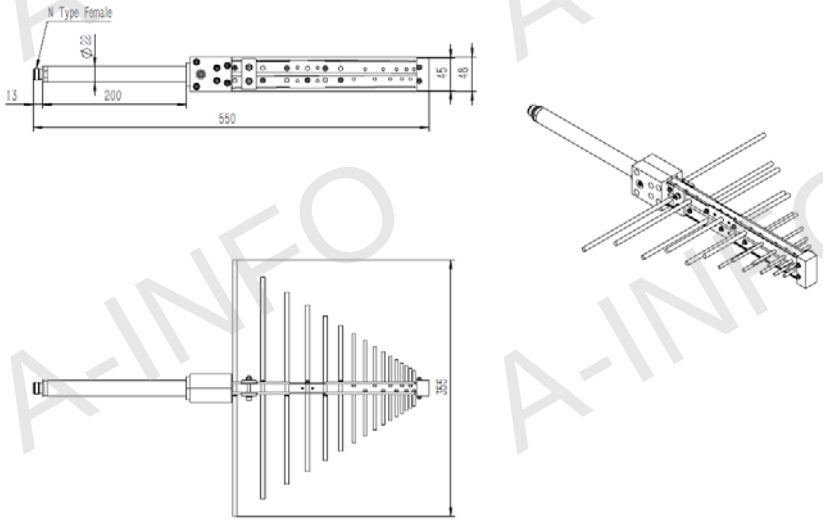
DS-50300 with Mounting Bracket




DS-50300C




DS-50300E



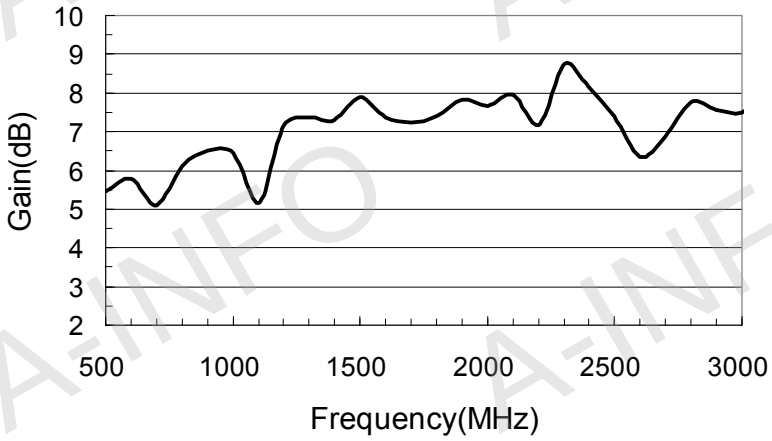



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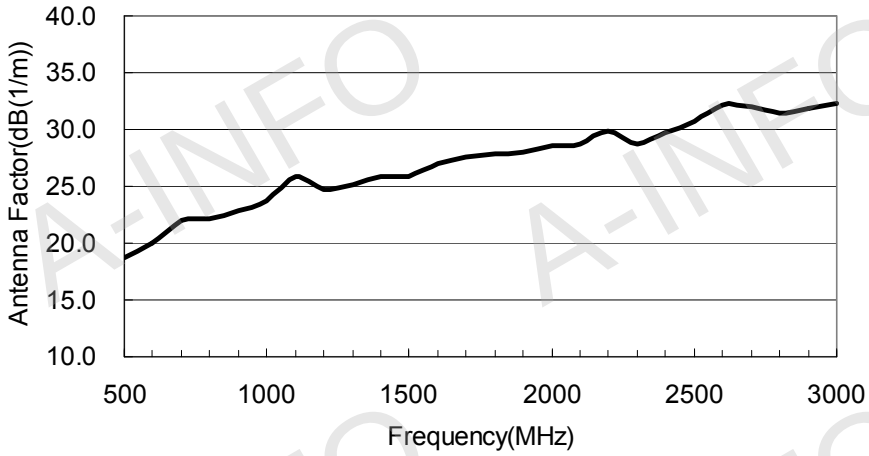
# Log Periodic Antenna 500~3000MHz(continued)

**P/N: DS-50300**

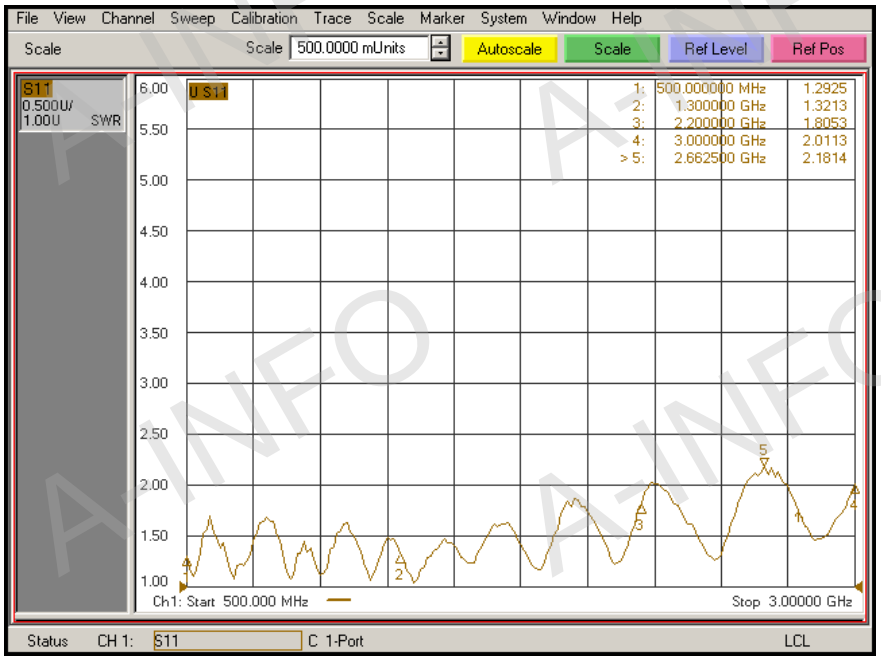
**Gain**




**Antenna Factor**




**VSWR**





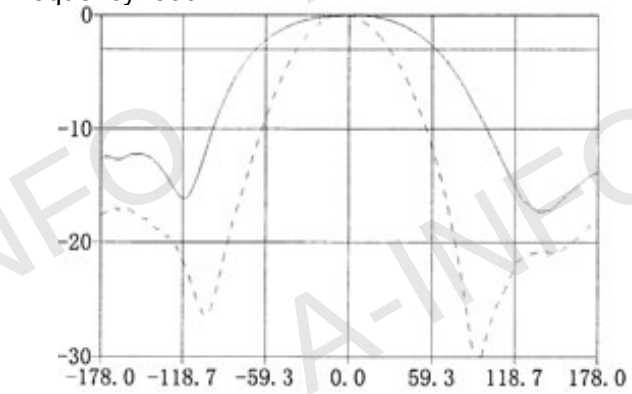

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# Log Periodic Antenna 500~3000MHz(continued)

**P/N: DS-50300**

**Pattern**

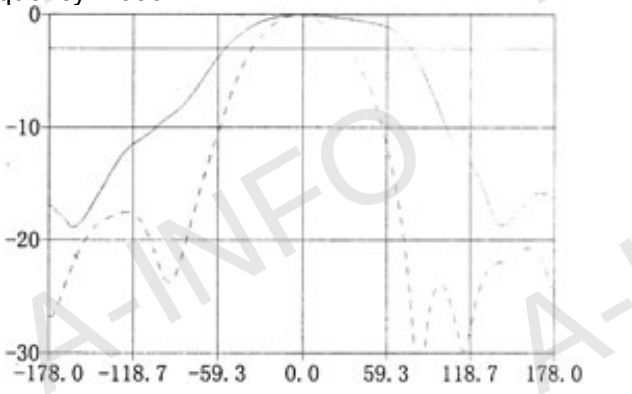
Frequency: 500MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 128.71 3dB Beamwidth (deg): 66.26

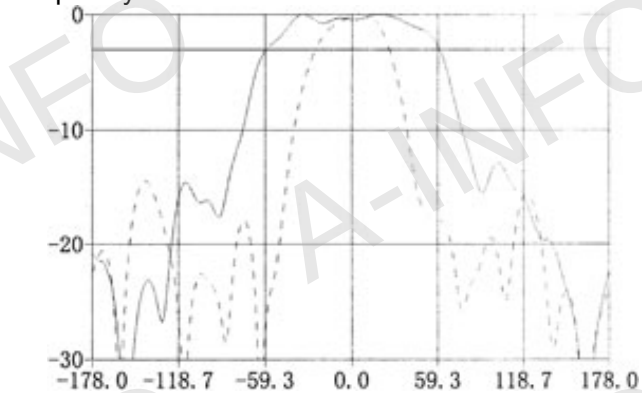
Frequency: 1000MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 130.65 3dB Beamwidth (deg): 67.71

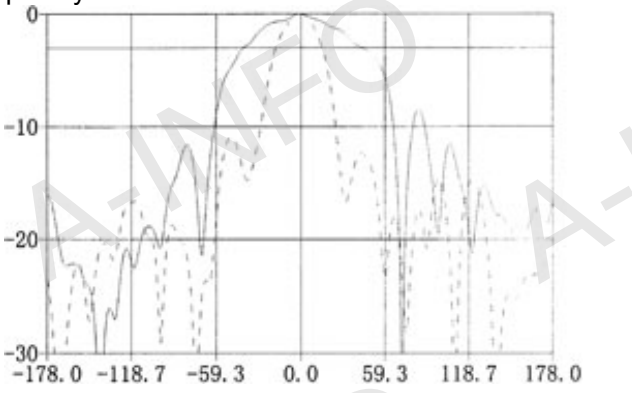
Frequency: 2000MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 119.28 3dB Beamwidth (deg): 50.88

Frequency: 3000MHz




H-Plane ——— E-Plane - - - - -

3dB Beamwidth (deg): 83.80 3dB Beamwidth (deg): 32.52



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# Dual Pol. Log Periodic Antenna 200~4000MHz

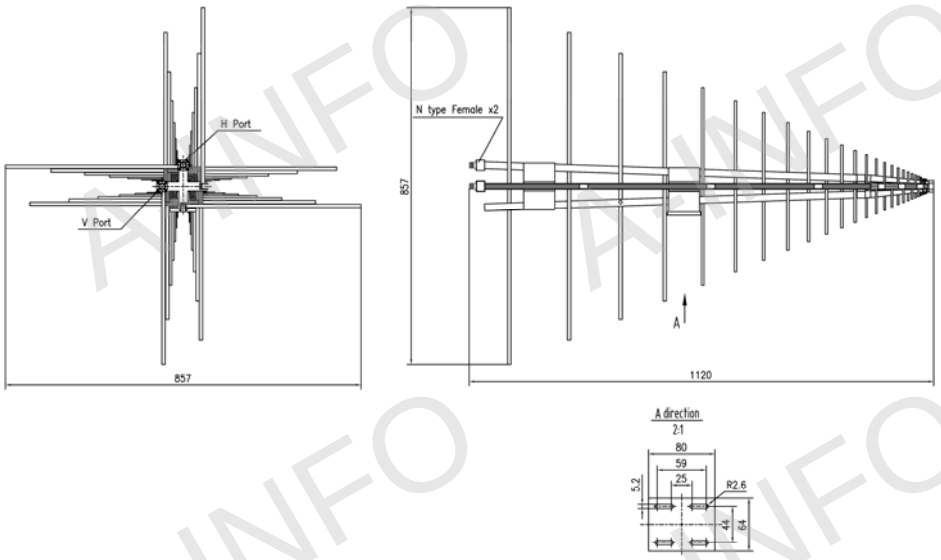
**P/N: DS-SJ-20400**



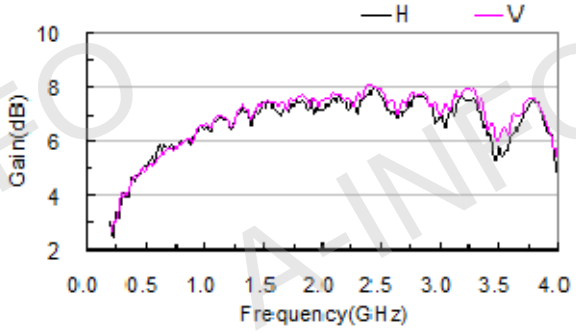
## Technical Specification

| | |
|---|---|
| Frequency Range(GHz) | 0.2 - 4.0 |
| Gain(dB) | 7.0 Typ. |
| Polarization | Dual Pol. |
| VSWR | 2.0 Typ. |
| Connector | N-Female |
| Size(mm) | 857 x 857 x1120 |
| Net Weight(Kg) | 4.0 Around |

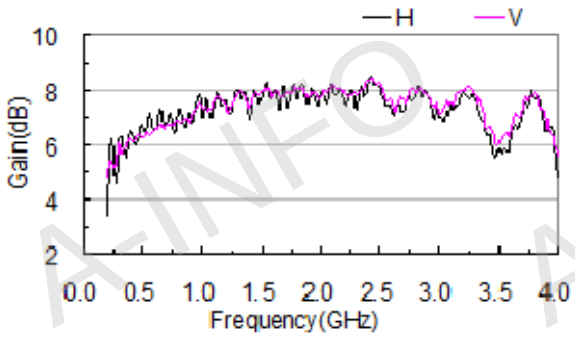
## Outline Drawing(Size: mm)




## Gain
### At 1m




## Gain
### At 3m



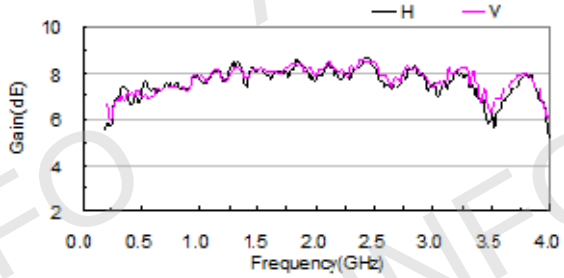



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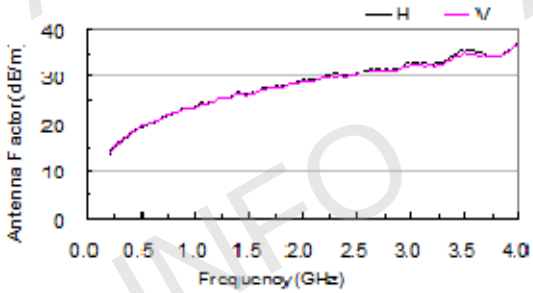
# Dual Pol. Log Periodic Antenna 200~4000MHz(continued)

**P/N: DS-SJ-20400**

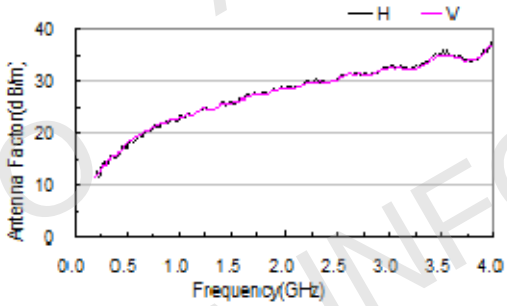
## Gain
**At 10m**



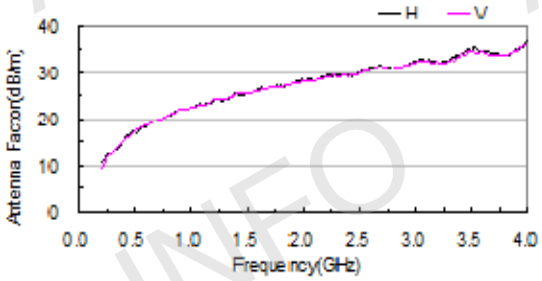

## Antenna Factor
**At 1m**



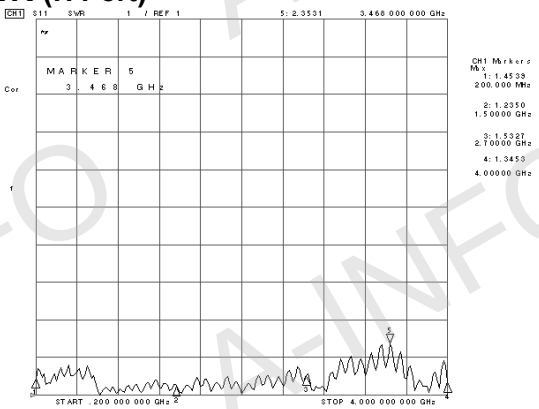

## Antenna Factor
**At 3m**



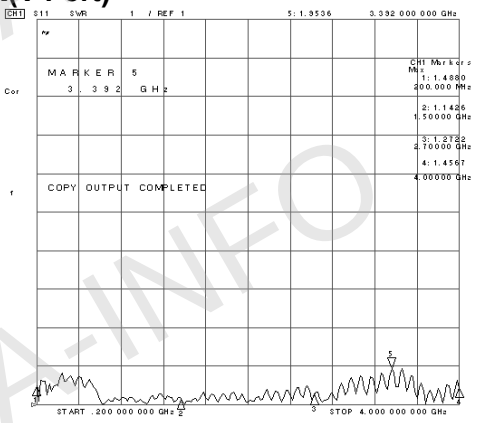

## Antenna Factor
**At 10m**



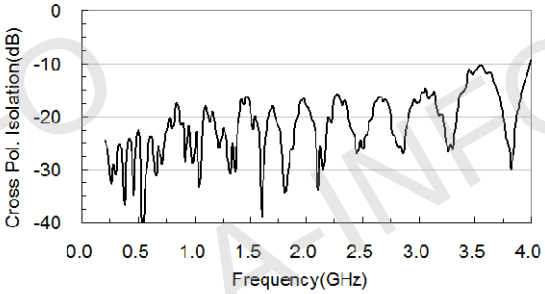

## VSWR (H Port)



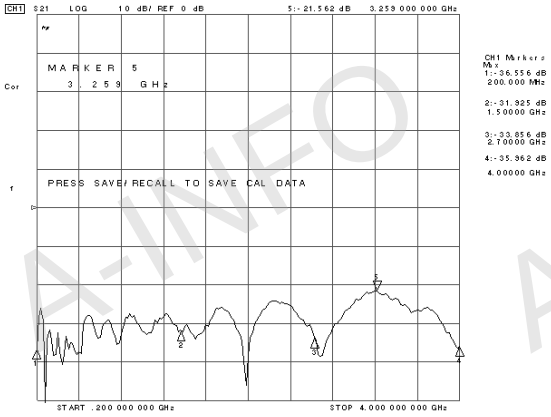
## VSWR(V Port)




## Cross Polarization Isolation




## Port to Port Isolation





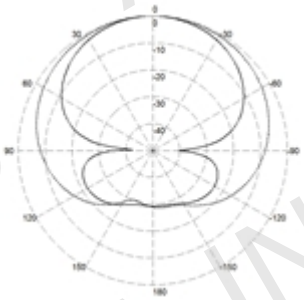

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# Dual Pol. Log Periodic Antenna 200~4000MHz(continued)

**P/N: DS-SJ-20400**

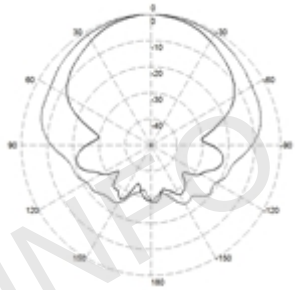
**Pattern**

Frequency: 0.2GHz



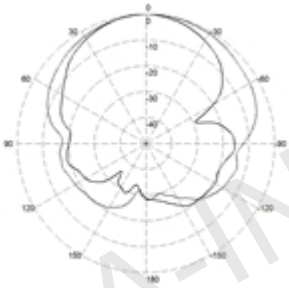
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 66 3dB Beamwidth (deg): 116

Frequency: 1.0GHz



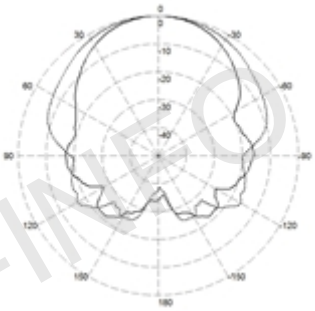
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 52 3dB Beamwidth (deg): 89

Frequency: 2.0GHz



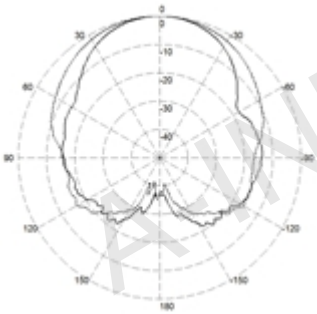
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 53 3dB Beamwidth (deg): 88

Frequency: 3.0GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 49 3dB Beamwidth (deg): 73

Frequency: 4.0GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 49 3dB Beamwidth (deg): 70



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## Discone-Type Antenna





PZ series discone antenna is a kind of broadband omni-directional linearly polarized antenna. Our discone antenna is designed to transmit and receive signal. Its Typical gain is 1dB on the greatest radiation direction. By adding a LNA, it can be used as an active antenna, and the gain can be increased to larger than 10dB, but it is changed to a received only antenna.

Also we provide specific frequency Discone-Type antennas according to customers' requirement.

*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Discone-type Antenna and download.*

| Model | Frequency(MHz) | VSWR Typ. | Power (W) CW | Connector | Size (mm) (Φ x H) |
|---|---|---|---|---|---|
| PZ-350/P | 30-500 | 2.5:1 | 300 | N-Female | 3071x3306 |
| PZ-450/P | 40-500 | 2.5:1 | 300 | N-Female | 2289x2377 |
| PZ-7100/P | 70-1000 | 2.0:1 | 200 | N-Female | 1340x1163 |
| PZ-850/P | 80-500 | 2.0:1 | 300 | N-Female | 1247x1163 |
| PZ-1040/P | 100-400 | 2.0:1 | 300 | N-Female | 1247x1163 |
| PZ-2040/P | 200-400 | 2.5:1 | 300 | N-Female | - |
| PZ-25100/P | 250-1000 | 2.0:1 | 300 | N-Female | 423x361 |
| PZ-80200/P | 800-2000 | 2.5:1 | 200 | N-Female | 155 x 140 |
| PZ-100800/P | 1000-8000 | 2.0:1 | 80 | SMA-Female | 110 x 71 |
| PZ-1001200/P | 1000-12000 | 2.0:1 | 80 | SMA-Female | 110 x 71 |
| PZ-1001800/P | 1000-18000 | 2.0:1 | 80 | SMA-Female | 110 x 71 |
| PZ-8001800/P | 8000-18000 | 2.5:1 | 80 | SMA-Female | 45 x 60 |



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# Discone-Type Antenna 40~500MHz

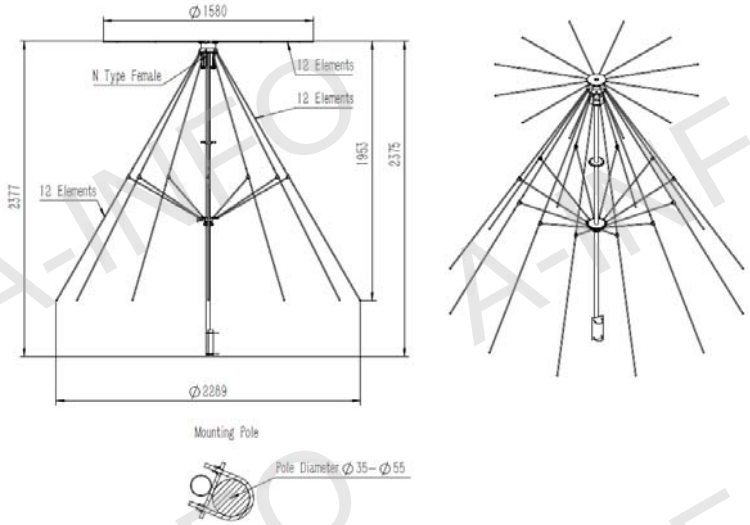
## P/N: PZ-450/P



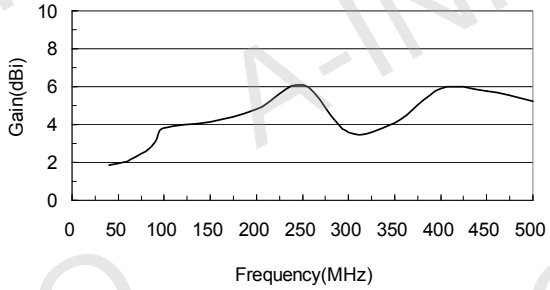
## Technical Specification

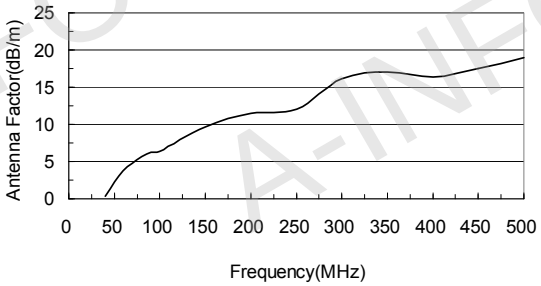
| | |
|---|---|
| Frequency(MHz) | 40-500 |
| Polarization | Linear |
| VSWR | 2.5:1 Typ. |
| Power(W) | 300 CW |
| Connector | N-Female |
| Size(mm) Φx H | Φ2289x2377 |
| Net Weight | 8.57Kg |

## Outline Drawing (Size: mm)

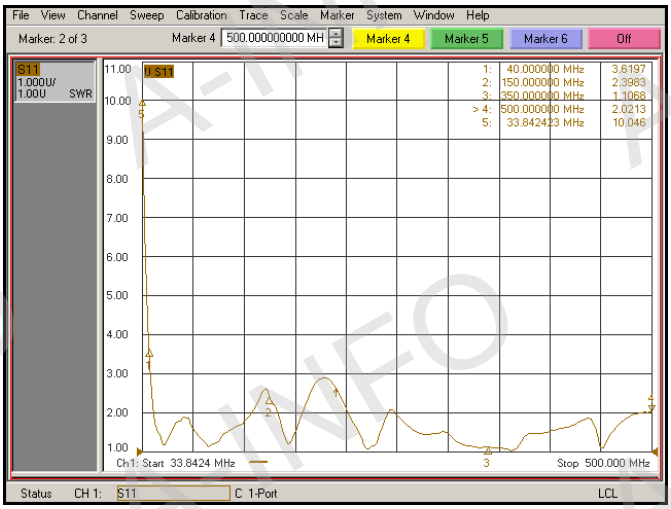



## Gain& Antenna Factor




## VSWR





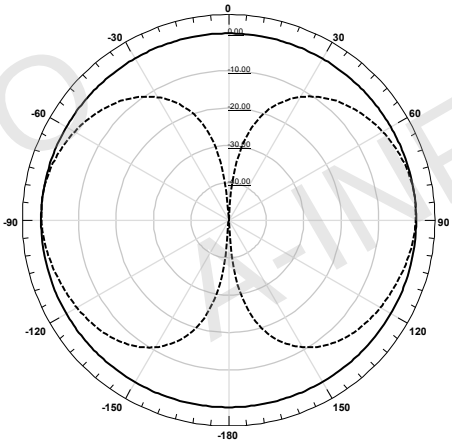

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# Discone-Type Antenna 40~500MHz(continued)

**P/N: PZ-450/P**

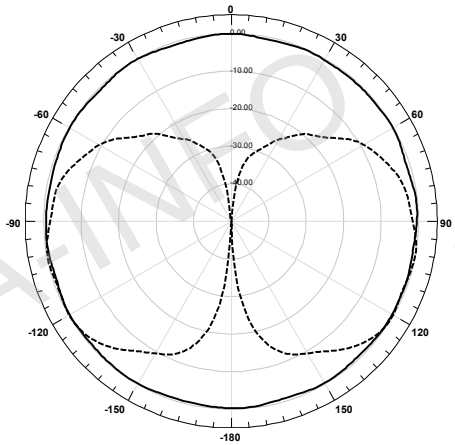
**Pattern**

Frequency: 40MHz



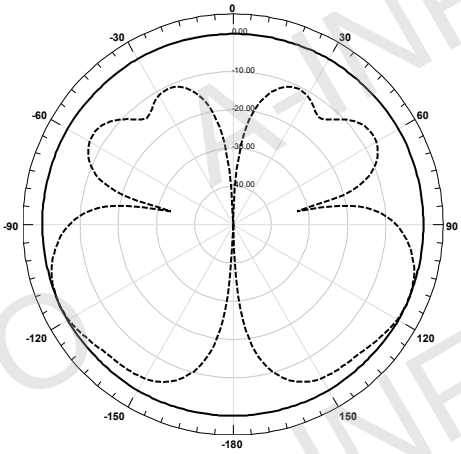

H-Plane ——— E-Plane - - - - -

Frequency:100MHz



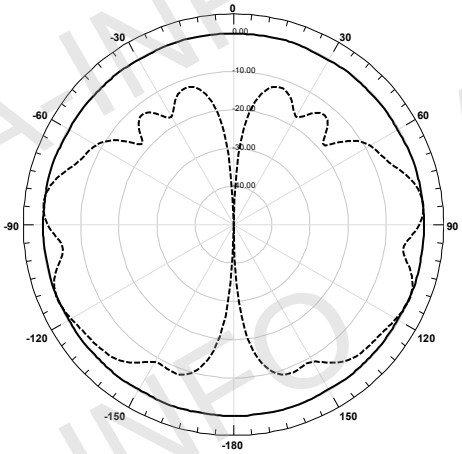

H-Plane ——— E-Plane - - - - -

Frequency: 200MHz



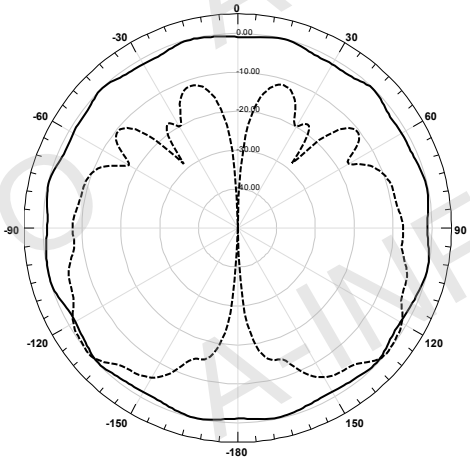

H-Plane ——— E-Plane - - - - -

Frequency:300MHz



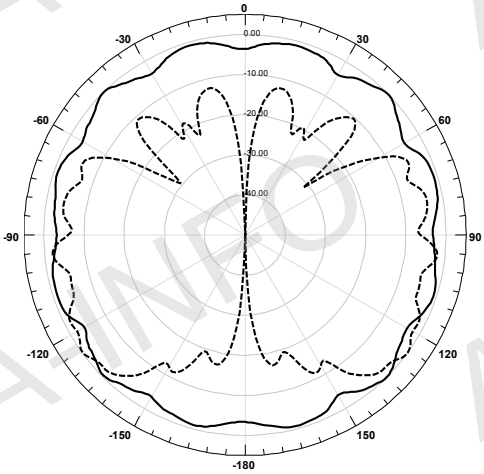

H-Plane ——— E-Plane - - - - -

Frequency: 400MHz




H-Plane ——— E-Plane - - - - -

Frequency:500MHz




H-Plane ——— E-Plane - - - - -



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# Discone-Type Antenna 70~1000MHz

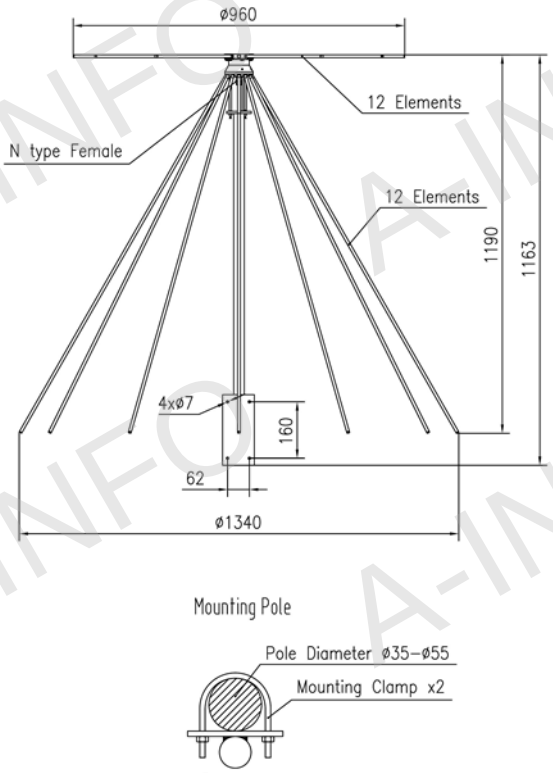
**P/N: PZ-7100/P**



## Technical Specification

| | |
|---|---|
| Frequency(MHz) | 70-1000 |
| Gain(dB) | 3 Typ |
| Polarization | Linear |
| VSWR | 2.0:1 Typ. |
| Power(W) | 300 CW |
| Connector | N-Female |
| Size(mm) ΦxH | Φ1340x1163 |
| Net Weight(Kg) | 3.5 Around |

## Outline Drawing (Size: mm)



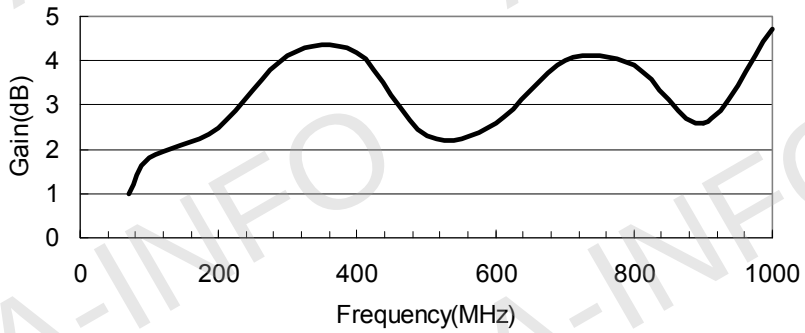



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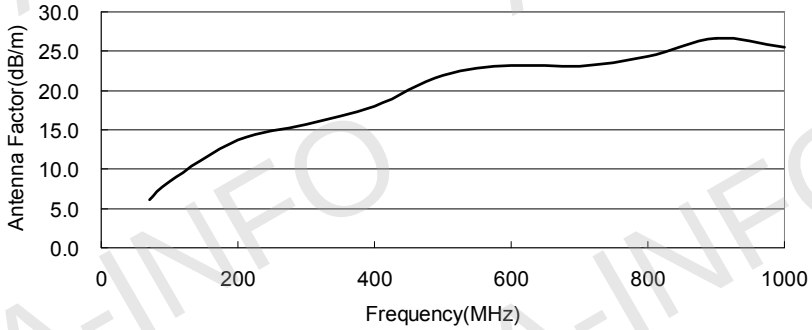
# Discone-Type Antenna 70~1000MHz(continued)

## P/N: PZ-7100/P

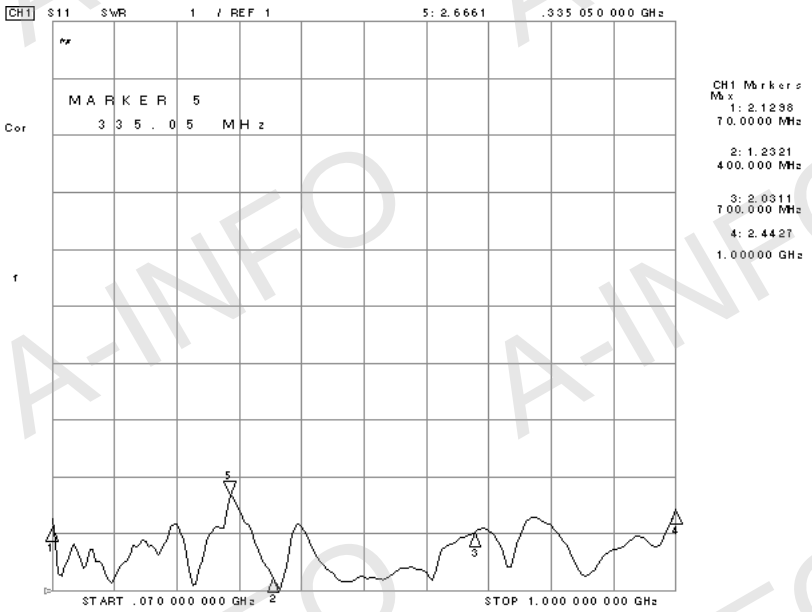
### Gain




### Antenna Factor




### VSWR





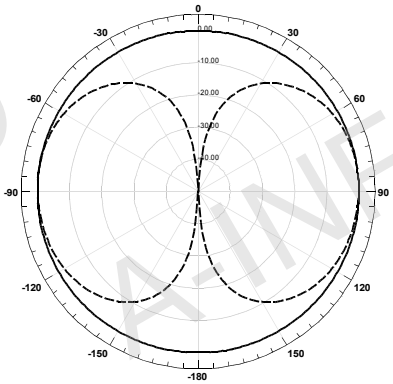

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# Discone-Type Antenna 70~1000MHz(continued)

**P/N: PZ-7100/P**

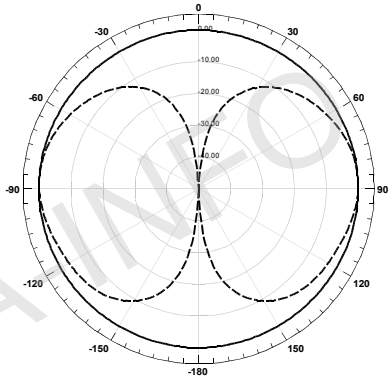
**Pattern**

Frequency: 70MHz



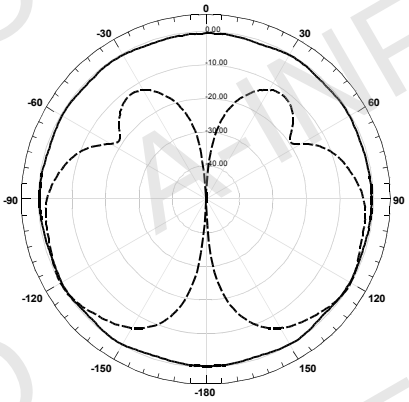

H-Plane ——— E-Plane - - - - -

100MHz



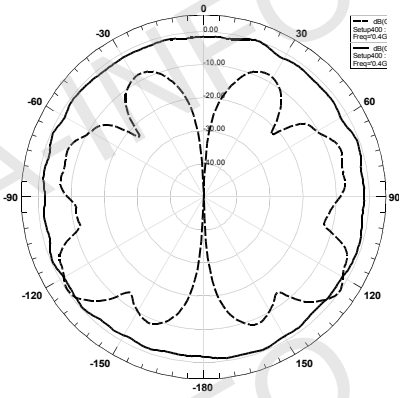

H-Plane ——— E-Plane - - - - -

Frequency: 200MHz



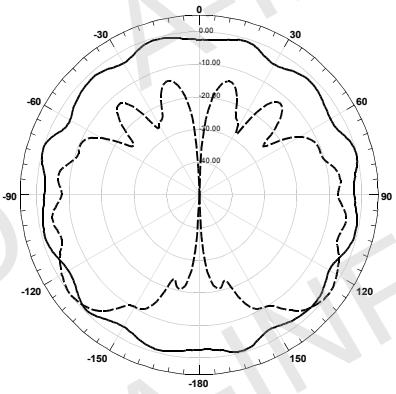

H-Plane ——— E-Plane - - - - -

400MHz



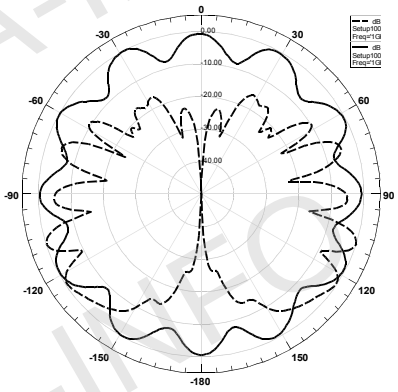

H-Plane ——— E-Plane - - - - -

Frequency: 800MHz




H-Plane ——— E-Plane - - - - -

1000MHz




H-Plane ——— E-Plane - - - - -



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# Discone-Type Antenna 80~500MHz

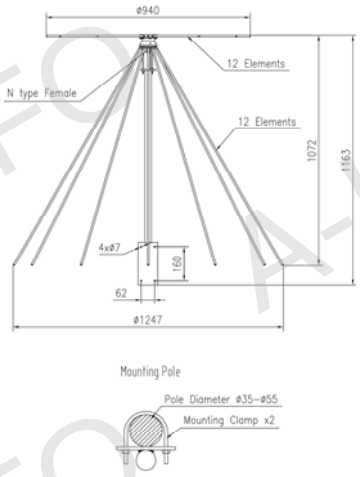
## P/N: PZ-850/P



## Technical Specification

| | |
|---|---|
| Frequency(MHz) | 80-500 |
| Gain(dB) | 0 Typ |
| Polarization | Linear |
| VSWR | 2.0:1 Typ. |
| Power(W) | 300 CW |
| Connector | N-Female |
| Size(mm) ΦxH | Φ1247x1163 |
| Net weight (Kg) | 5.0 Around |

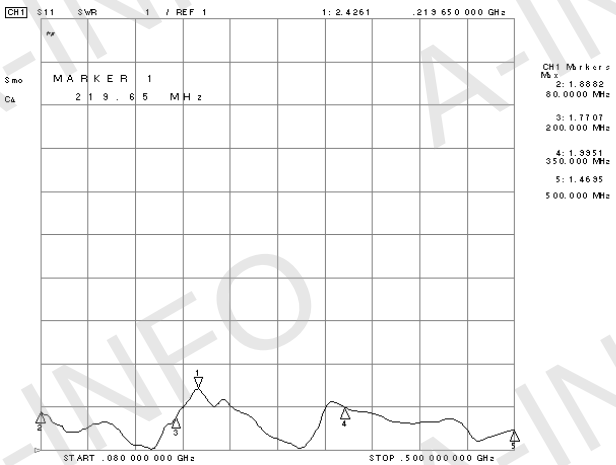
## Outline Drawing (Size: mm)




## Gain

| Frequency (MHz) | Gain (dB) |
|---|---|
| 80 | 0.8 |
| 240 | 1.5 |
| 500 | 1.8 |

## VSWR





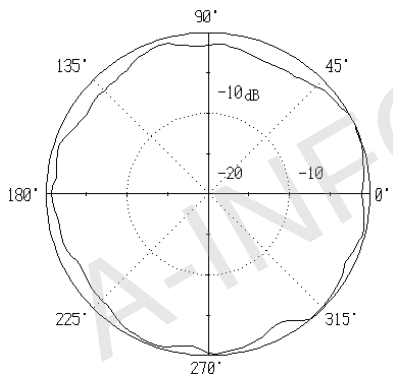

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# Discone-Type Antenna 80~500MHz(continued)

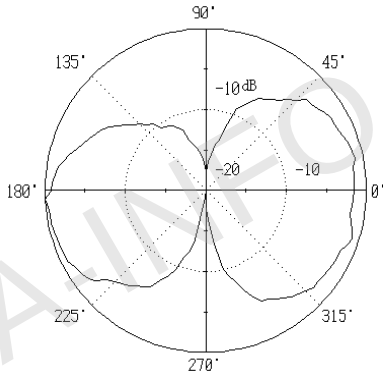
**P/N: PZ-850/P**

**Pattern**

Frequency: 80MHz

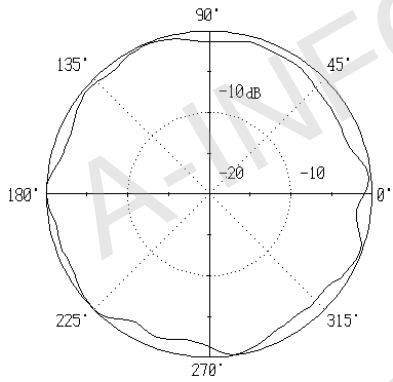



H-Plane

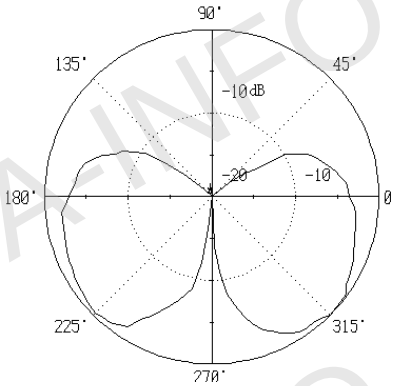



E-Plane

Frequency: 240MHz

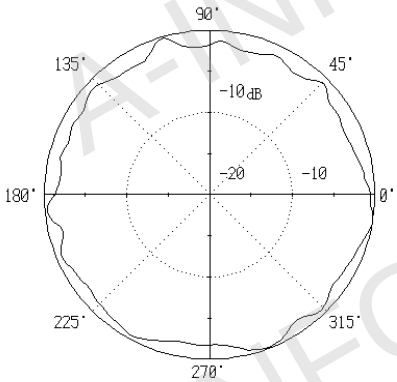



H-Plane

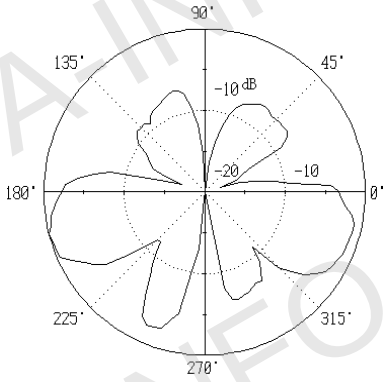



E-Plane

Frequency: 500MHz




H-Plane



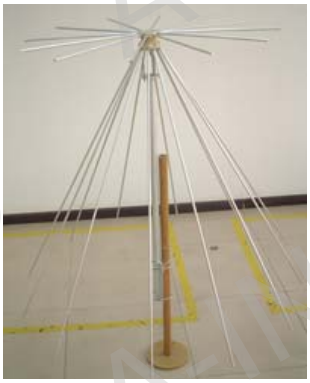

E-Plane



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# Discone-Type Antenna 100~400MHz

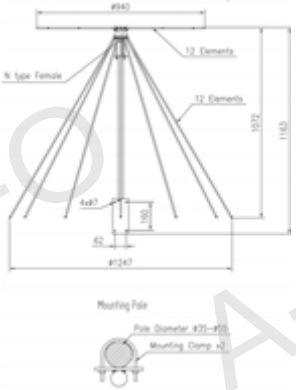
**P/N: PZ-1040/P**



## Technical Specification

| | |
|---|---|
| Frequency(MHz) | 100-400 |
| Gain(dB) | 0 Typ. |
| Polarization | Linear |
| VSWR | 2.0:1 Typ. |
| Power(W) | 300 CW |
| Connector | N-Female |
| Size(mm) ΦxH | Φ1247 x 1163 |
| Net Weight(Kg) | 5.0 Around |

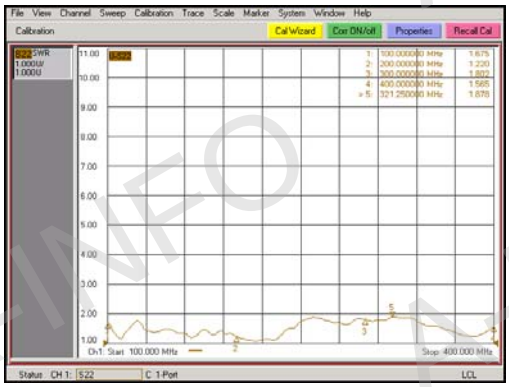
## Outline Drawing (Size: mm)



## Gain

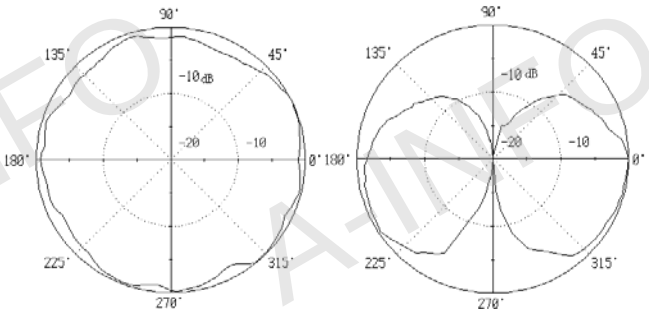
| Frequency (MHz) | Gain (dB) |
|---|---|
| 100 | 1.5 |
| 250 | 1.7 |
| 400 | 2.0 |

## VSWR



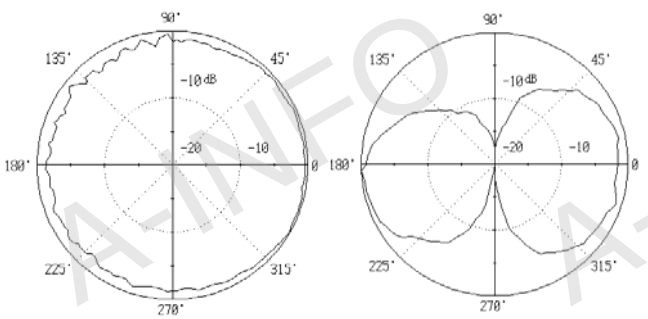
## Pattern

Frequency: 100MHz



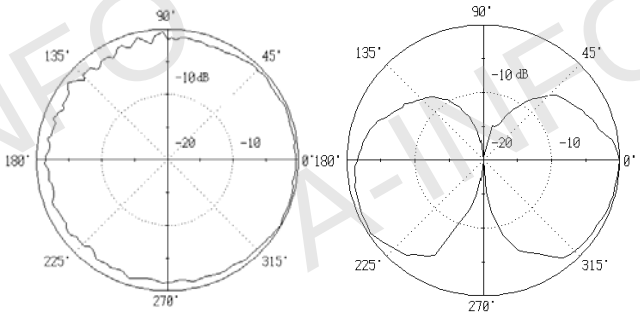

H-Plane E-Plane

Frequency : 250MHz




H-Plane E-Plane

Frequency : 400MHz




H-Plane E-Plane



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# Discone-Type Antenna 250~1000MHz

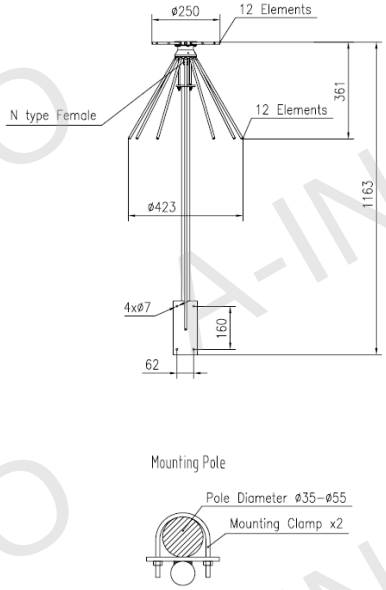
**P/N: PZ-25100/P**



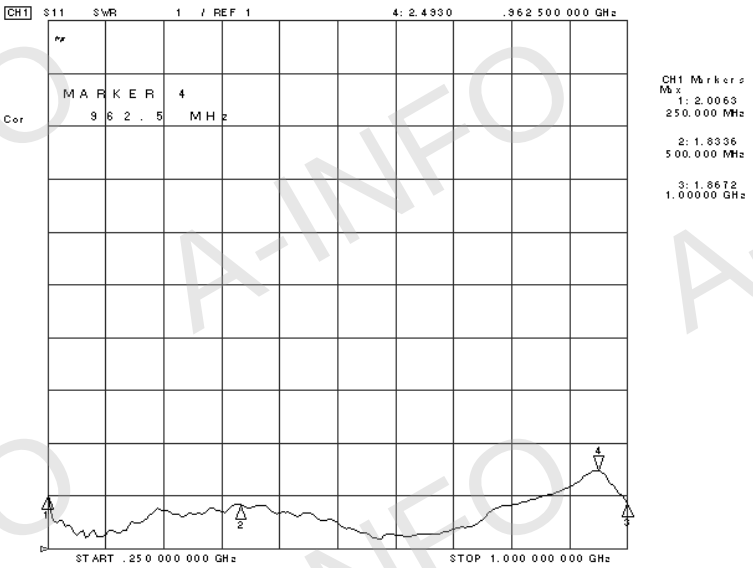
## Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 250-1000 |
| Gain(dB) | 1.5 Typ |
| Polarization | Linear |
| VSWR | 2.0:1 Typ. |
| Power(W) | 300CW |
| Connector | N-Female |
| Size(mm)Φx H | Φ423x1163(including mounting bracket) |
| Net weight (Kg) | 2.5 Around (including mounting bracket) |

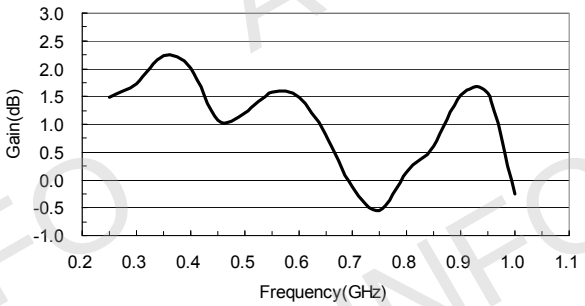
## Outline Drawing(Size: mm)



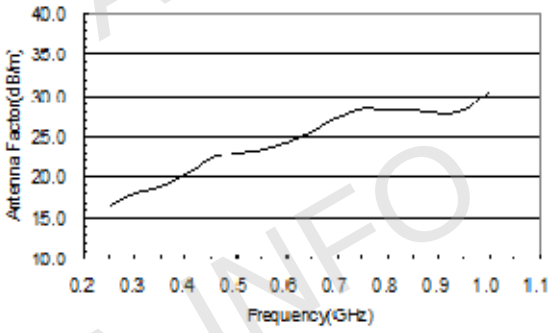

## VSWR




## Gain




## Antenna Factor





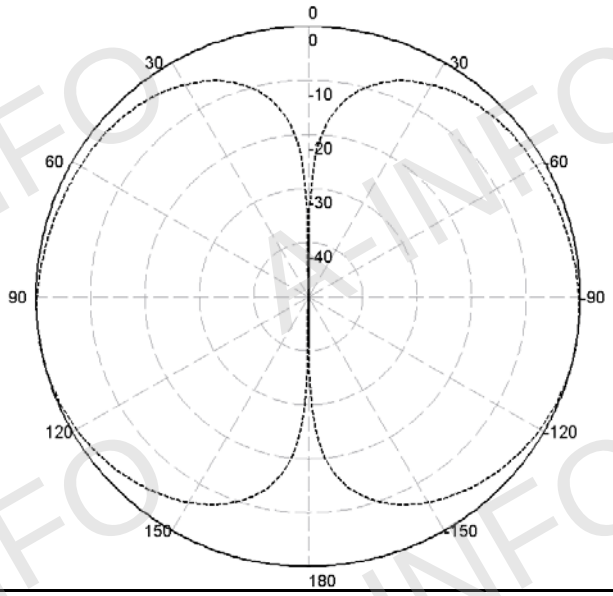

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# Discone-Type Antenna 250~1000MHz(continued)

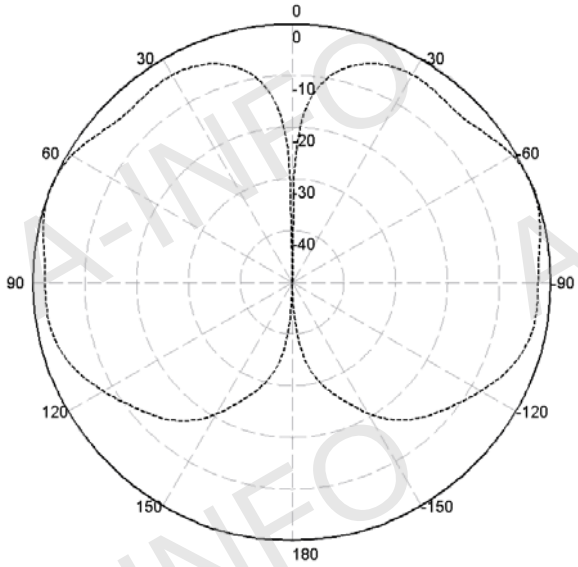
**P/N: PZ-25100/P**

**Pattern**

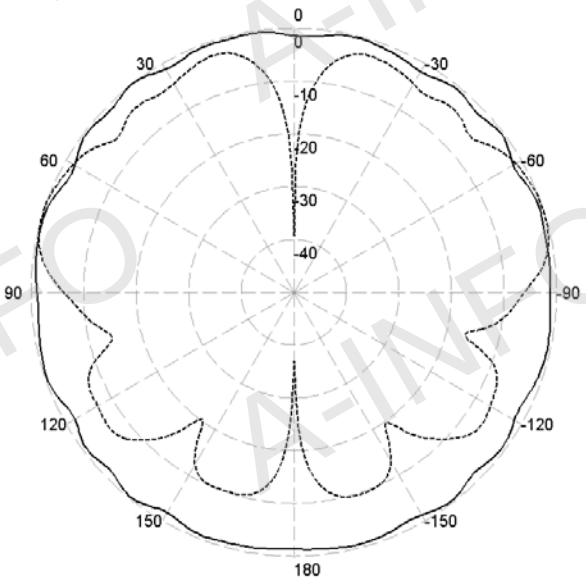
Frequency: 250MHz




500MHz




Frequency: 1000MHz




H-Plane ——— E-Plane - - - - -



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# Discone-Type Antenna 1000~18000MHz

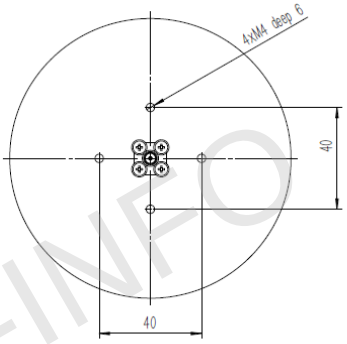
**P/N: PZ-1001800/P**

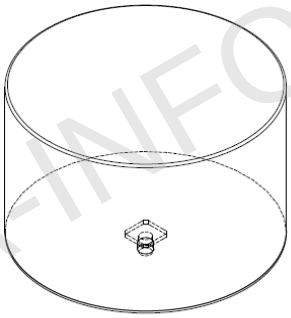


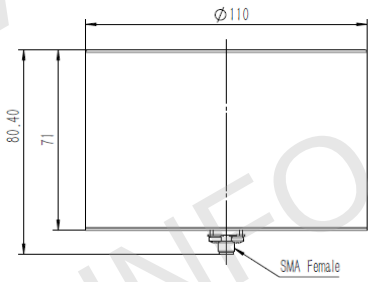
## Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 1000-18000 |
| Gain(dB) | 0 Typ |
| Polarization | Linear |
| Power(W) | 80 CW |
| VSWR | 2.0:1 Typ. |
| Connector | SMA-Female |
| Size(mm) Φx H | Φ110x71 |
| Net Weight(Kg) | 0.5 Around |

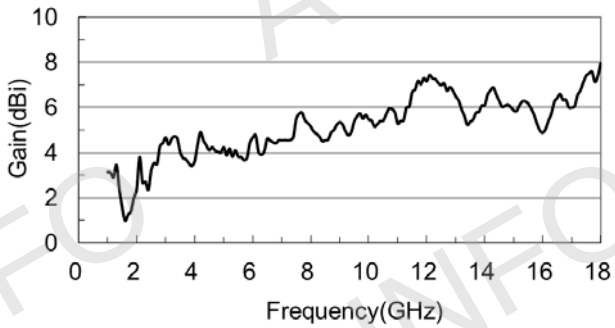
## Outline Drawing and Mounting(Size: mm)



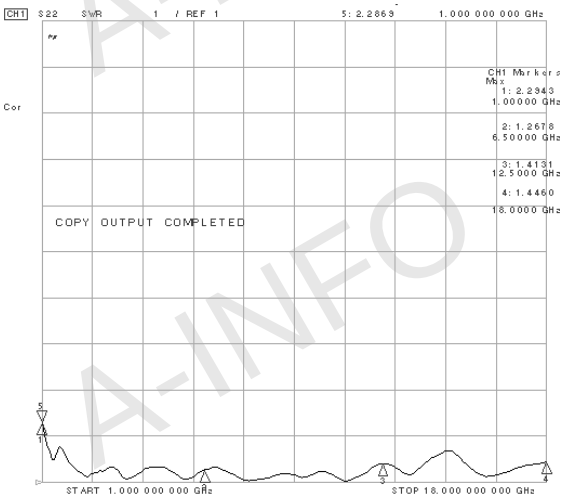






## Gain




## VSWR



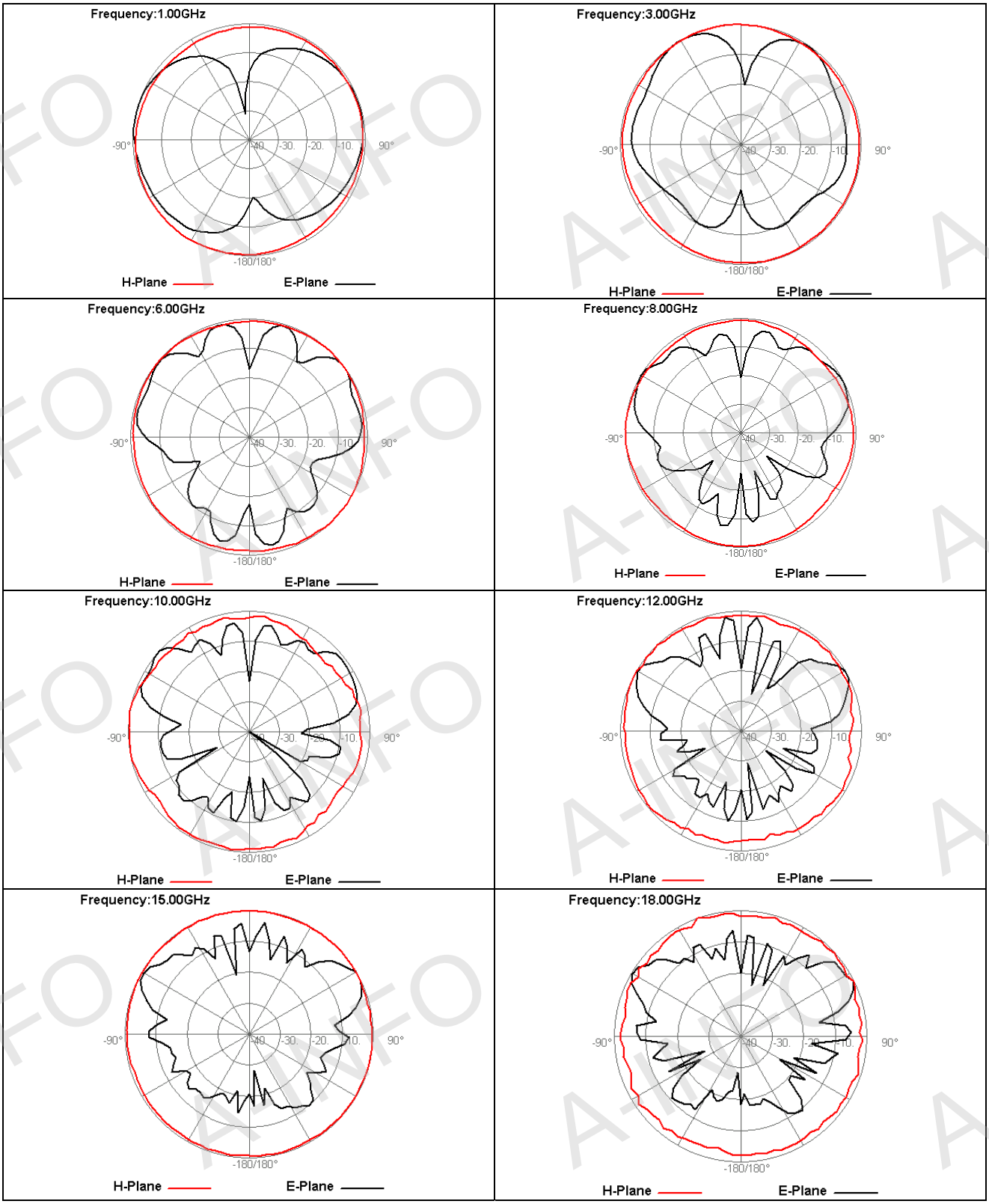



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# Discone-Type Antenna 1000~18000MHz(continued)

**P/N: PZ-1001800/P**

**Pattern**






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# Discone-Type Antenna 8000~18000MHz

**P/N: PZ-8001800/P**

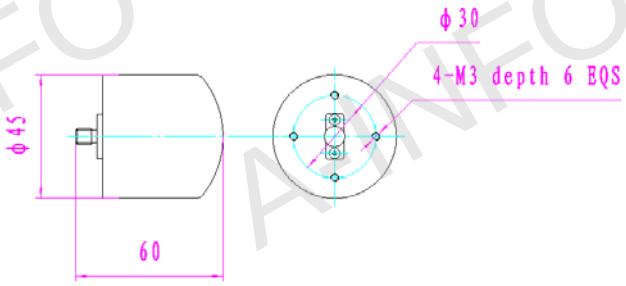


Pic. For Reference Only

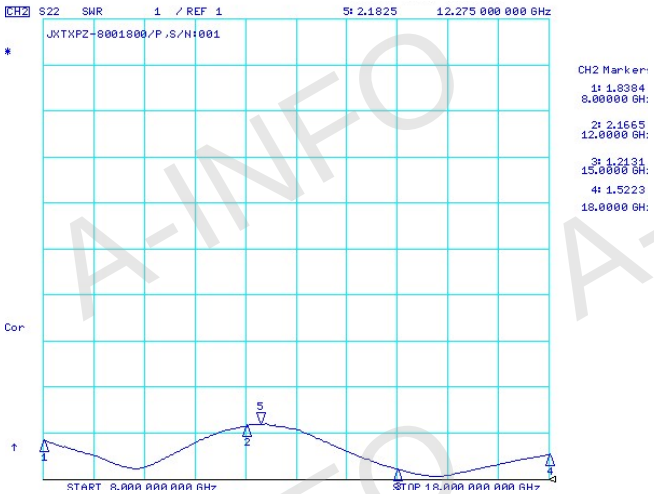
## Technical Specification

| | |
|---|---|
| Frequency Range(MHz) | 8000-18000 |
| Polarization | Linear |
| VSWR | 2.5:1 Typ. |
| Connector | SMA-Female |
| Size(mm) | Φ45x60 |
| Net weight (kg) | 0.14 Around |

## Outline Drawing(Size: mm)

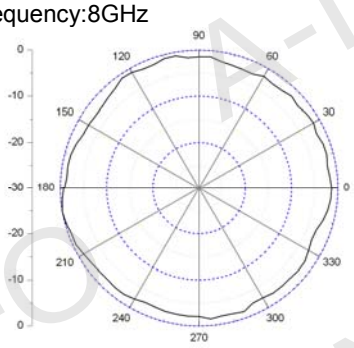



## VSWR



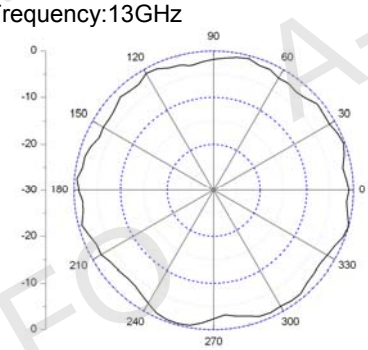

## Pattern

Frequency:8GHz



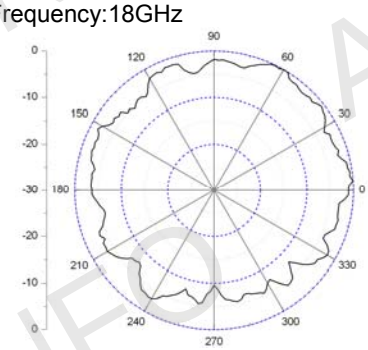
Azimuth

Frequency:13GHz



Azimuth

Frequency:18GHz

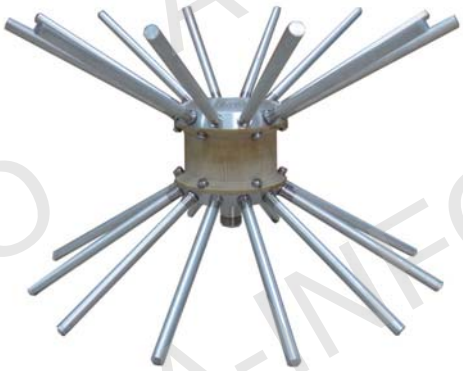


Azimuth



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# Bi-Conical Antenna





*For detailed test data, pls. Log on www.ainfoinc.com – Antenna – Bi-Conical Antenna and download.*

| Model | Freq. (MHz) | Pol. | Gain (dB) Typ. | VSWR Max | Power (W) CW | Connector | Size (mm) |
|---|---|---|---|---|---|---|---|
| SZ-10300 | 100-3000 | Vertical | 4 | 2.5:1 Typ. | 100 | N-F | Φ1680x1000 |
| SZ-20300 | 200-3000 | Vertical | 4 | 3.0:1 | 100 | N-F | Φ645 x 400 |
| SZ-50300/P | 500-3000 | Vertical | 0 | 3.0:1 | 100 | N-F | Φ300x190 |
| SZ-80400/P | 800-4000 | Vertical | 0 | 2.0:1 | 50 | SMA-F | Φ190x206 |
| SZ-2001800/P | 2000-18000 | Vertical | 4 | 2.0:1 Typ.<br>2.5:1 Max | 50 | SMA-F | Φ123x84 |
| SZ-2002650/P | 2000-26500 | Vertical | 0 | 2.0:1 Typ.<br>2.5:1 Max | 50 | SMA-F | Φ123x82 |
| SZ-2003000/P | 2000-30000 | Vertical | 0 | 2.5:1 Typ.<br>3.0:1 Max | 50 | SMA-F | Φ123x82 |
| SZ-3004000/P | 3000-40000 | Vertical | 3 | 2.0:1 Typ. | 30 | 2.92mm-F | Φ80x82.8 |
| SZ-4004000/P | 4000-40000 | Vertical | 3 | 2.0:1 Typ. | 30 | 2.92mm-F/<br>2.4mm-F | Φ80x82.8 |
| SZ-18004000/P | 18000-40000 | Vertical | 3 | 2.0:1 Typ. | 30 | 2.92mm-F | Φ80x82.8 |



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# Bi-Conical Antenna 200~3000MHz

**P/N: SZ-20300**



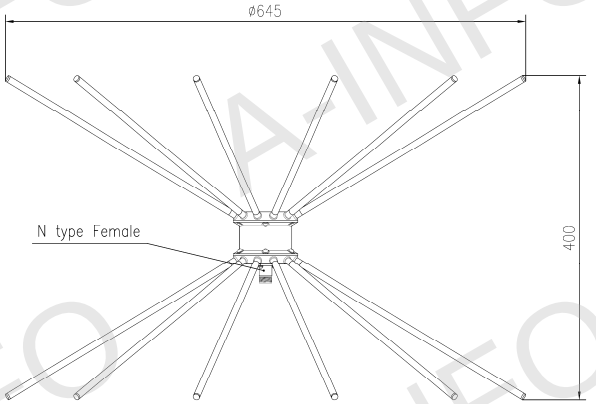


## Technical Specification

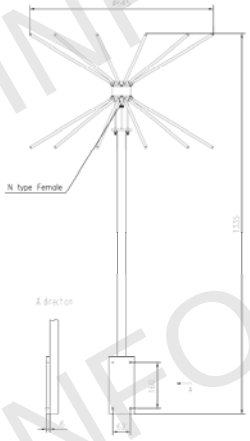
| | |
|---|---|
| **Frequency Range(MHz)** | 200-3000 |
| **Polarization** | Vertical |
| **VSWR** | 3:1 Max |
| **Gain(dB)** | 4 Typ. |
| **Power(W)** | 100 CW |
| **Connector** | N-Female |
| **Net Weight(Kg)** | 2.0 Around(Not including Mounting kit) |
| | 3.5 Around (including Mounting kit) |
| **Size(mm)** | (Φ)645x(H)400 approx(Not including Mounting kit) |
| | (H)1355 approx. (including Mounting kit) |

## Outline Drawing (Size: mm)

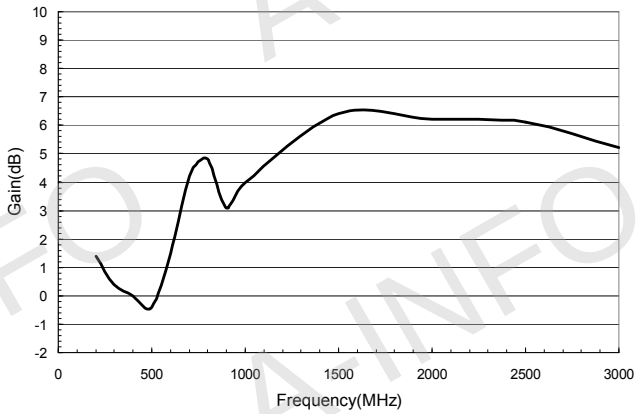
Not Including Mounting Bracket



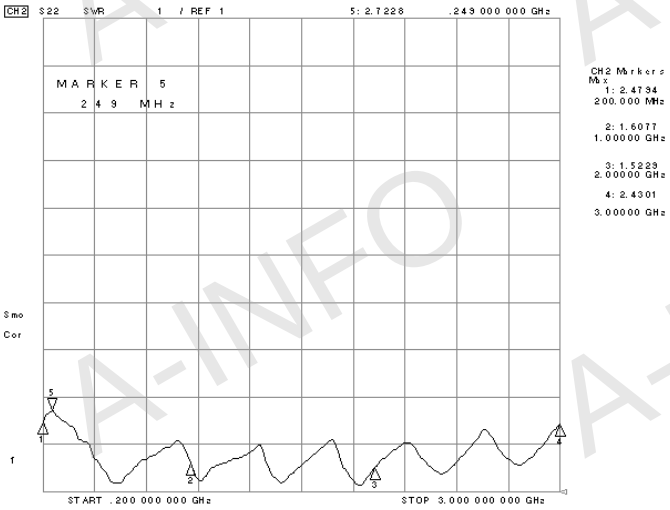

Including Mounting Kit




## Gain




## VSWR





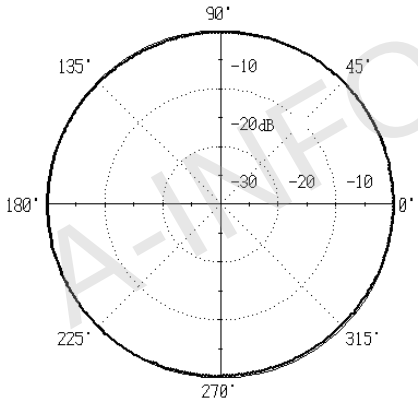

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# Bi-Conical Antenna 200~3000MHz(continued)

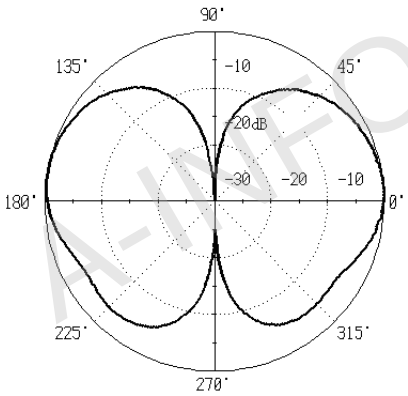
**P/N: SZ-20300**

**Pattern**

Frequency: 200MHz

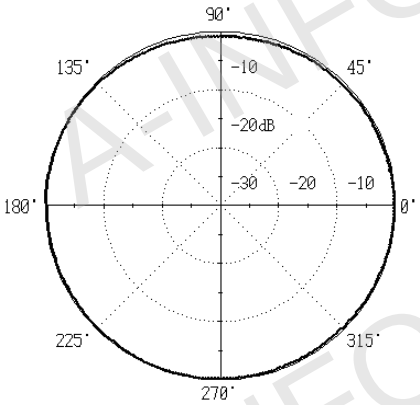



H-Plane

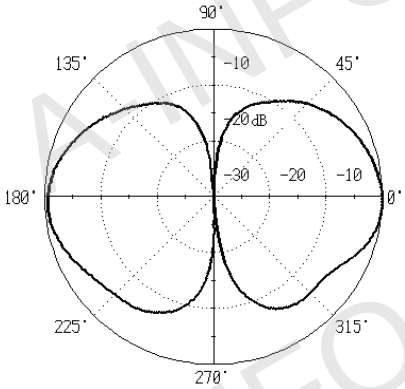



E-Plane

Frequency: 500MHz

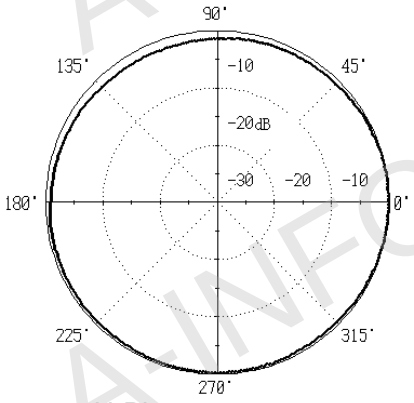



H-Plane

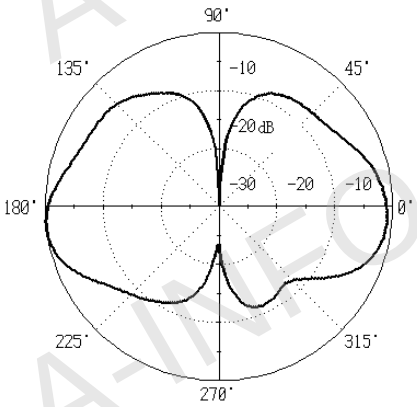



E-Plane

Frequency: 1000MHz




H-Plane




E-Plane



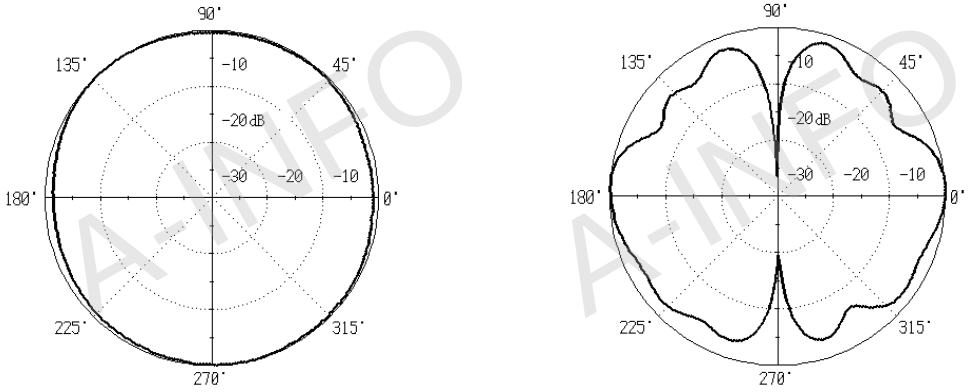
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# *Bi-Conical Antenna 200~3000MHz(continued)*

**P/N: SZ-20300**

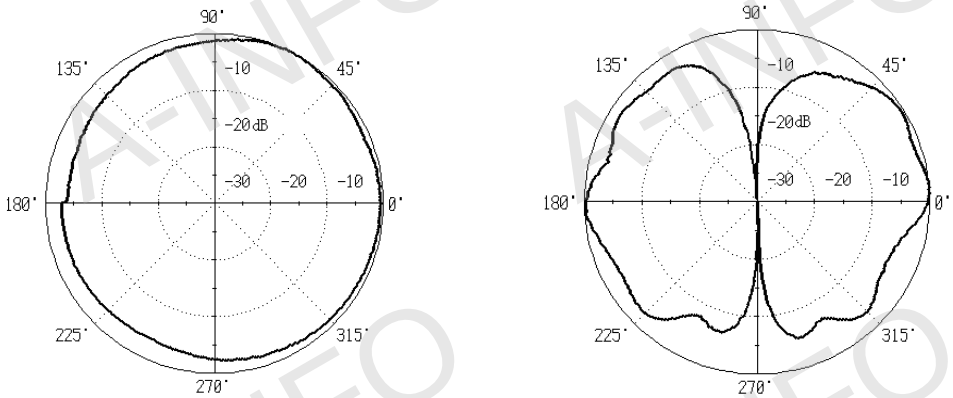
**Pattern**

Frequency: 1500MHz



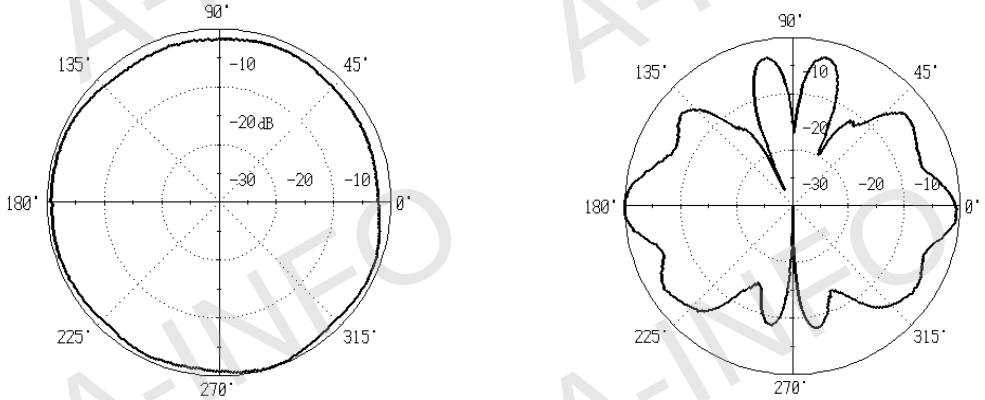

H-Plane E-Plane

Frequency: 2000MHz




H-Plane E-Plane

Frequency: 3000MHz




H-Plane E-Plane



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# Bi-Conical Antenna 500~3000MHz

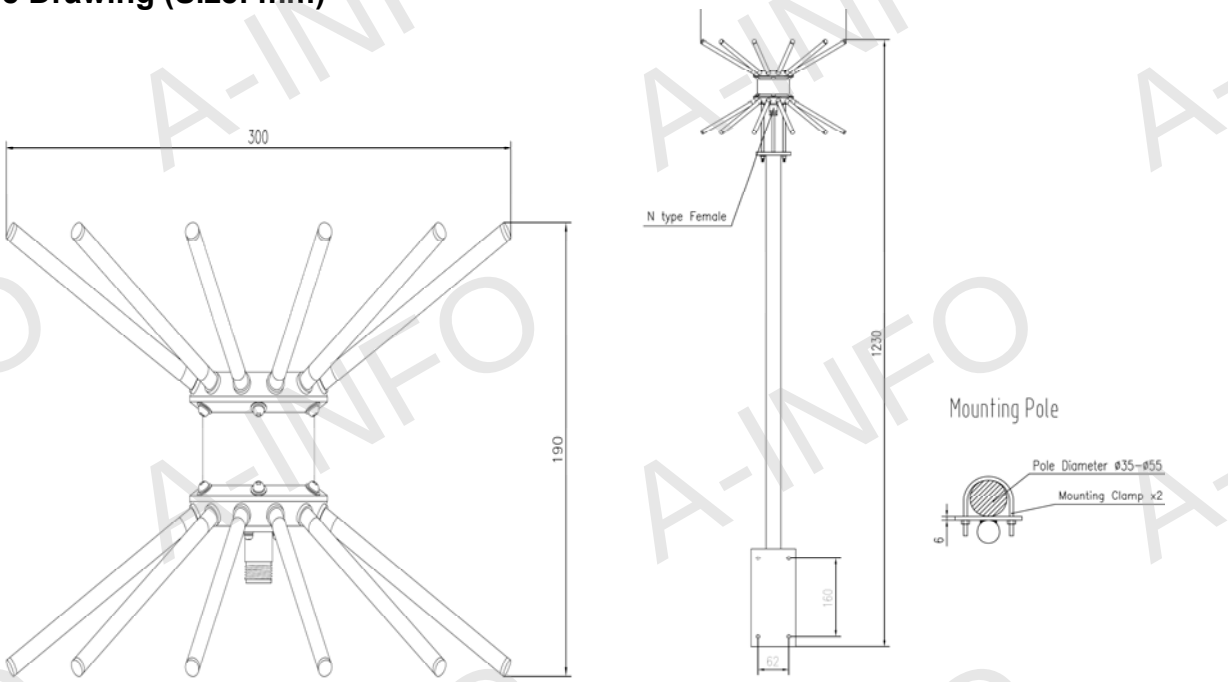
**P/N: SZ-50300/P**



## Technical Specification

| | |
|---|---|
| **Frequency Range(MHz)** | 500-3000 |
| **Polarization** | Vertical |
| **VSWR** | 3:1 MAX |
| **Gain(dB)** | 0 Typ |
| **Power(W)** | 100 CW |
| **Connector** | N-Female |
| **Net Weight(Kg)** | 1.0 Around(Not including Mounting Kit) |
| | 2.5 Around (including Mounting Kit) |
| **Size(mm)** | (Φ)300 x (H)190 approx. (Not including Mounting Kit) |
| | (H)1230 approx.( including Mounting Kit) |

## Outline Drawing (Size: mm)



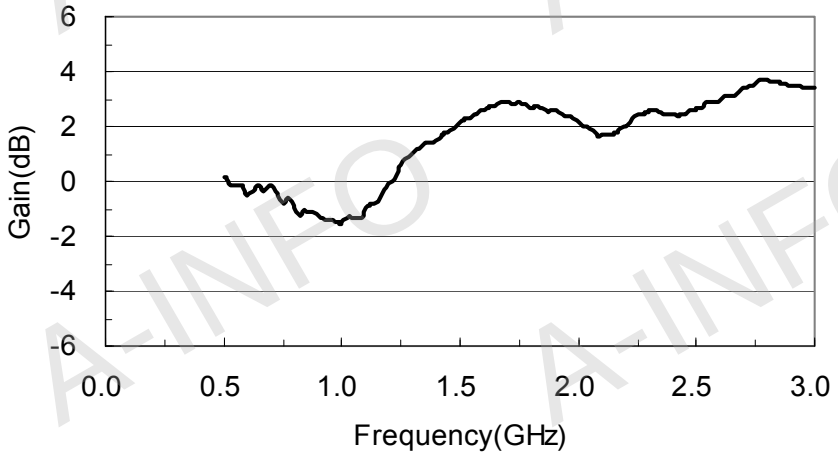



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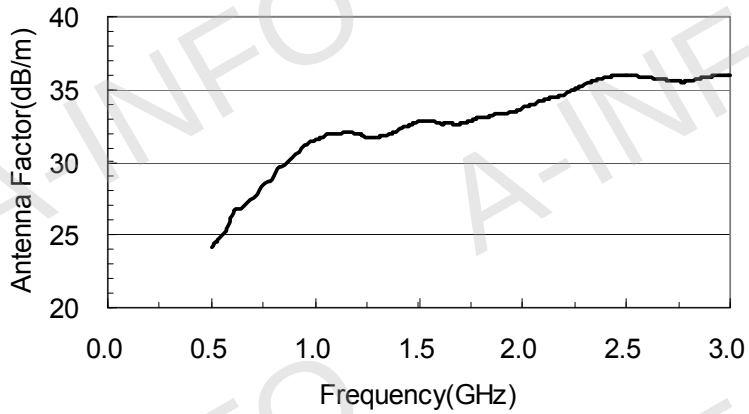
# Bi-Conical Antenna 500~3000MHz(continued)

**P/N: SZ-50300/P**

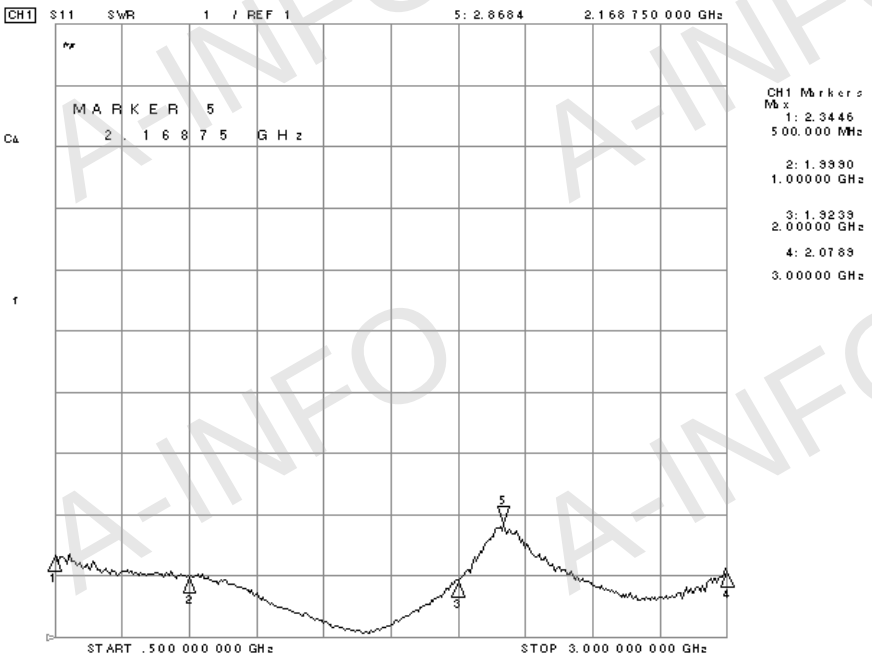
**Gain**




**Antenna Factor**




**VSWR**





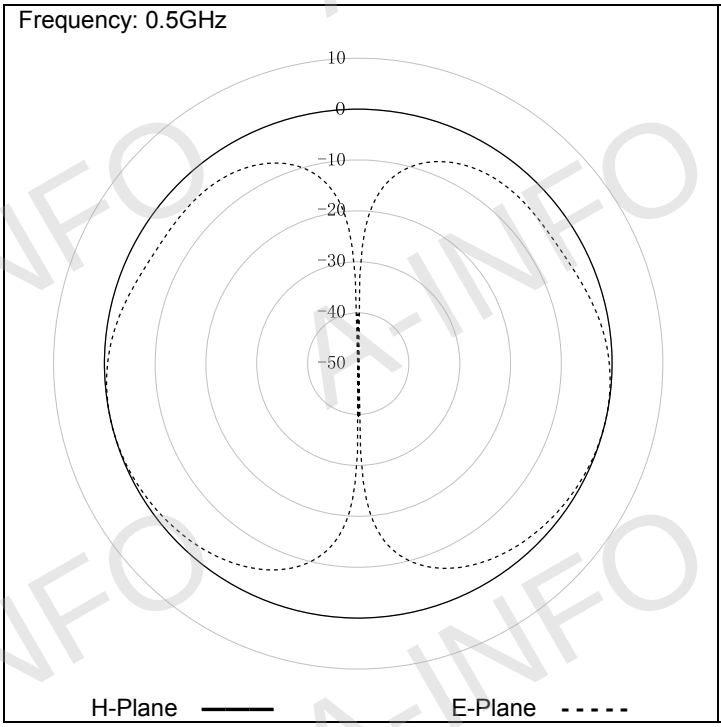

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# Bi-Conical Antenna 500~3000MHz(continued)

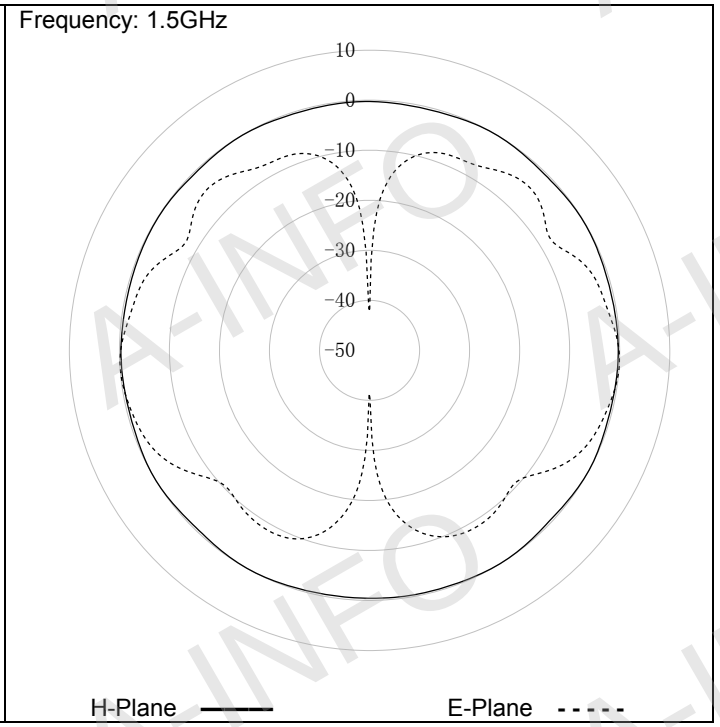
**P/N: SZ-50300/P**

**Pattern**

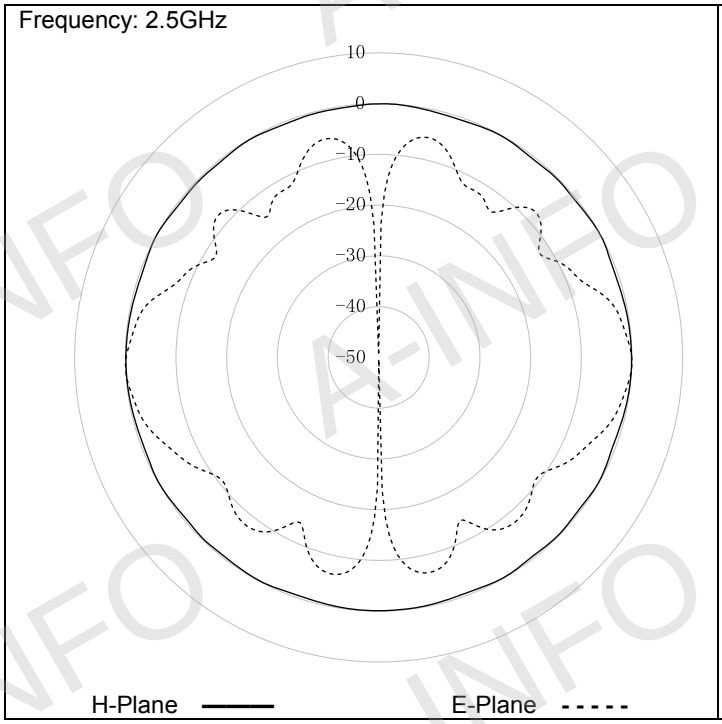
Frequency: 0.5GHz



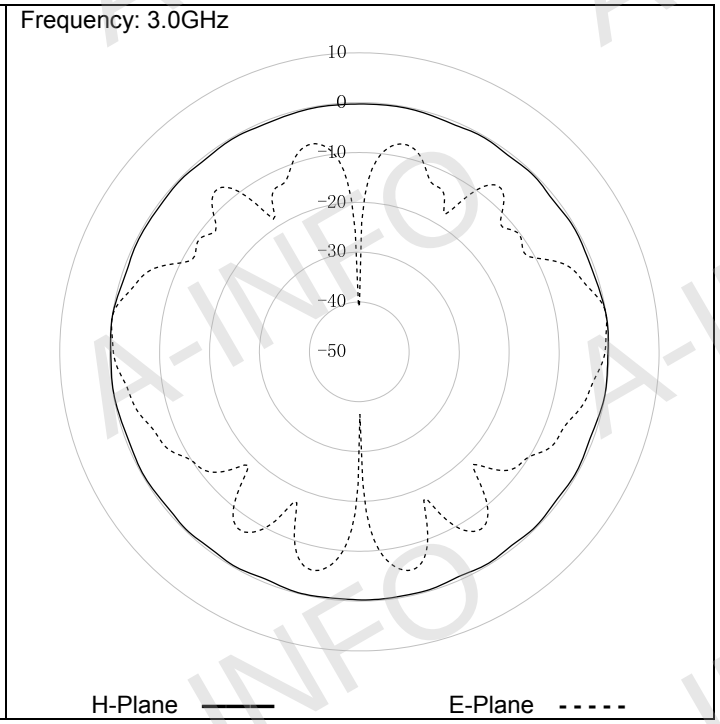

Frequency: 1.5GHz




Frequency: 2.5GHz




Frequency: 3.0GHz






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# *Bi-Conical Antenna 800~4000MHz*

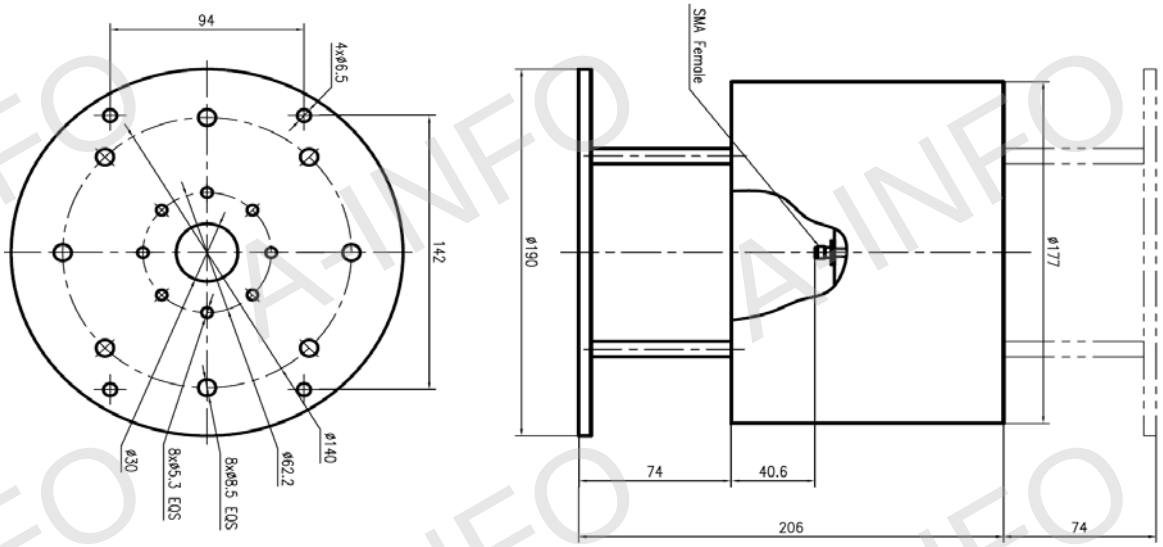
**P/N: SZ-80400/P**



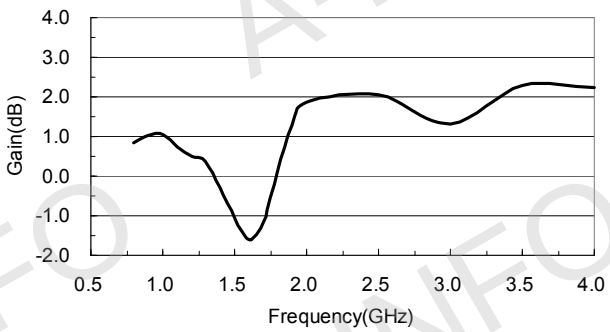
## Technical Specification

| | |
|---|---|
| **Frequency Range(MHz)** | 800-4000 |
| **Polarization** | Vertical |
| **Gain(dB)** | 0 Typ. |
| **VSWR** | 2.0:1 Max. |
| **Connector** | SMA-Female |
| **Size** | Φ190x206mm |
| **Net Weight(Kg)** | 1.6 Around |

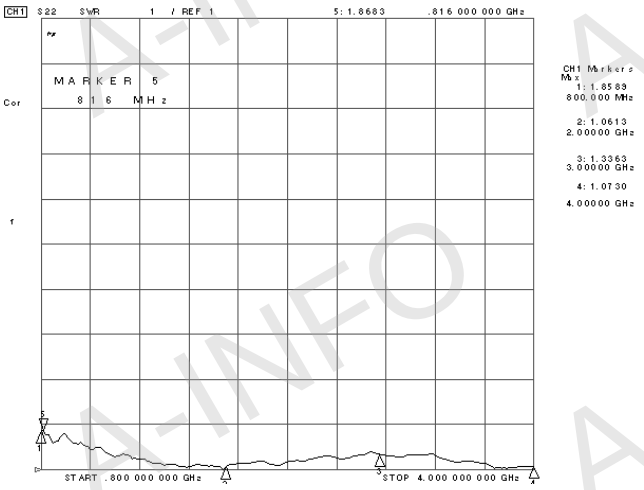
## Outline Drawing(Size: mm)




## Gain




## VSWR





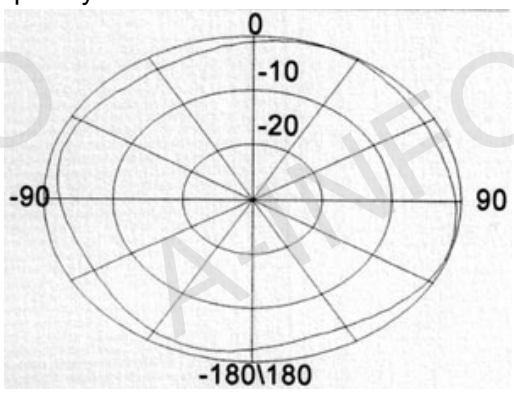

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## *Bi-Conical Antenna 800~4000MHz(continued)*

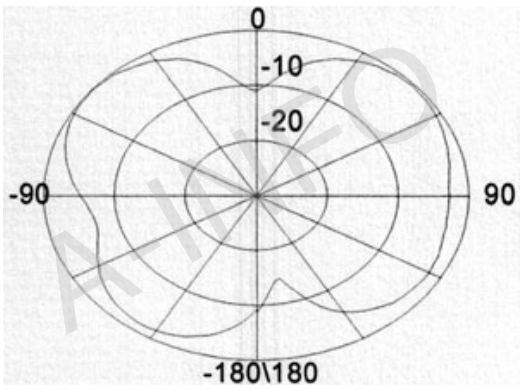
**P/N: SZ-80400/P**

**Pattern**

Frequency: 0.8GHz

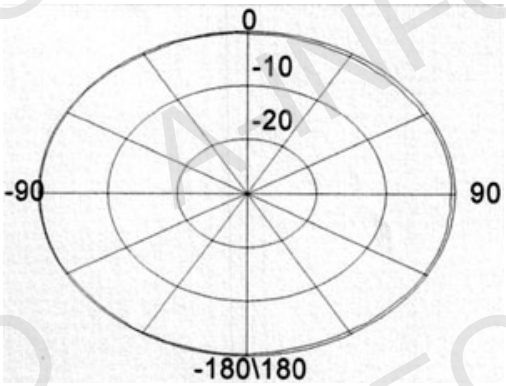



H-Plane

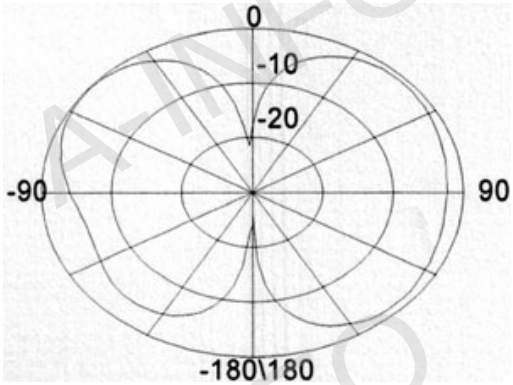



E-Plane

Frequency: 1.0GHz

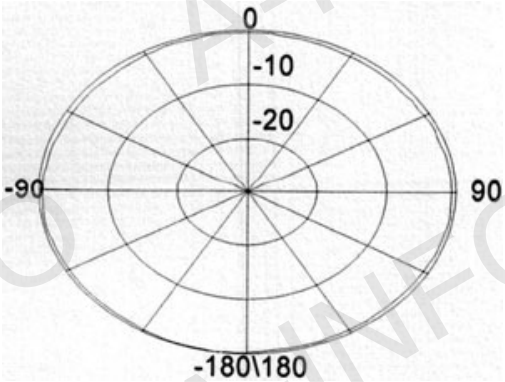



H-Plane

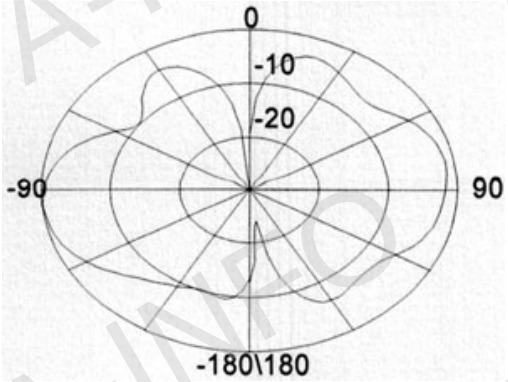



E-Plane

Frequency: 2.0GHz




H-Plane




E-Plane



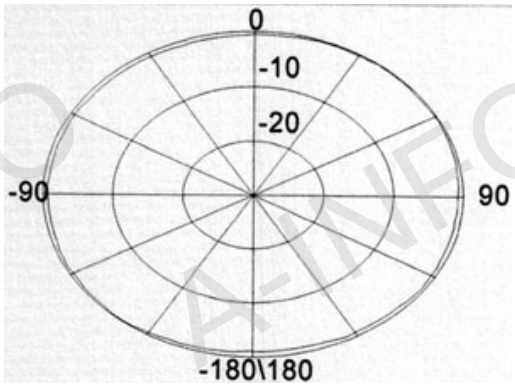
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## *Bi-Conical Antenna 800~4000MHz(continued)*

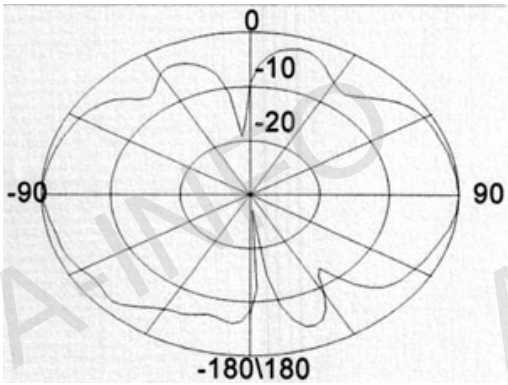
**P/N: SZ-80400/P**

**Pattern**

Frequency: 3.0GHz

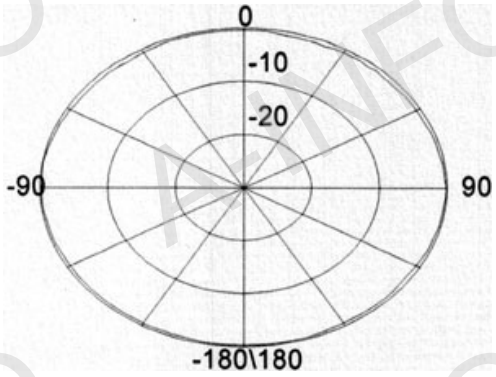



H-Plane

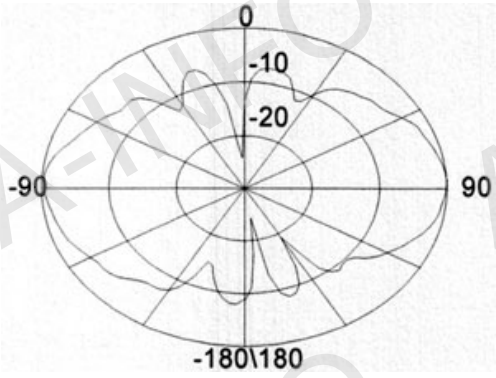



E-Plane

Frequency: 4.0GHz




H-Plane




E-Plane



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# Bi-Conical Antenna 2000~26500MHz

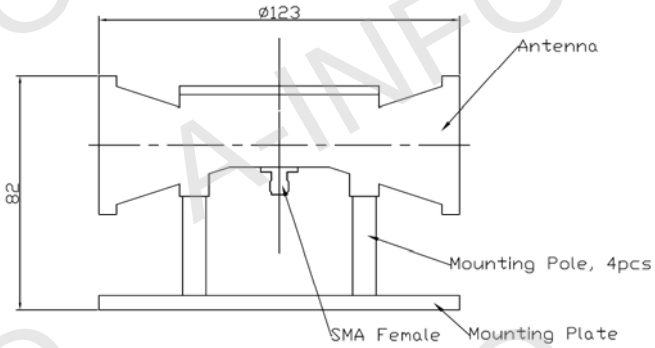
**P/N: SZ-2002650/P**

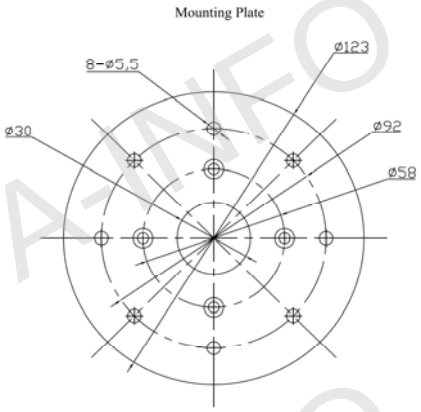


## Technical Specification

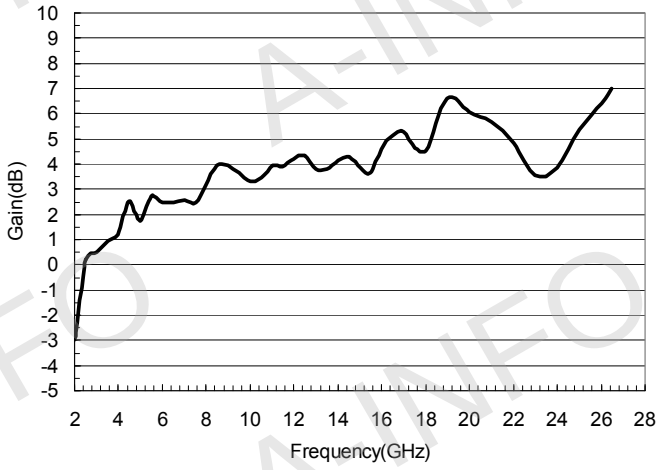
| | |
|---|---|
| Frequency(MHz) | 2000-26500 |
| Polarization | Vertical |
| Gain(dB) | 0 Typ. |
| VSWR | 2.0:1 Typ.<br>2.5:1 Max |
| Power(W) | 50 CW |
| Connector | SMA-Female |
| Size(mm) | Φ123x82 |
| Net Weight(Kg) | 0.4Around |

## Outline Drawing(Size:mm)

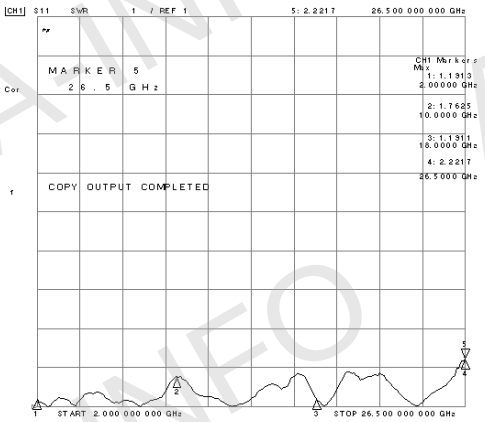



## Gain




## VSWR





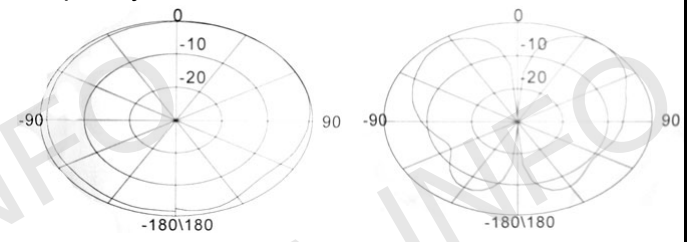

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# Bi-Conical Antenna 2000~26500MHz(continued)

**P/N: SZ-2002650/P**

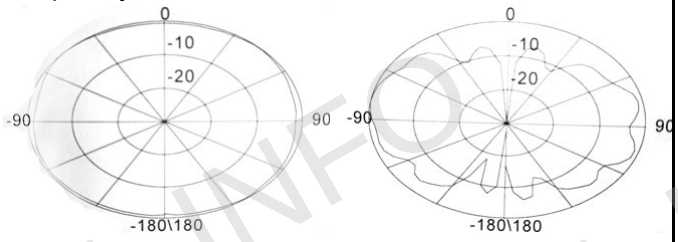
**Pattern**

Frequency: 2GHz



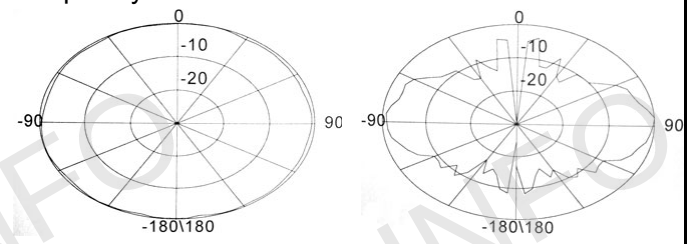

H-Plane E-Plane

Frequency: 6GHz



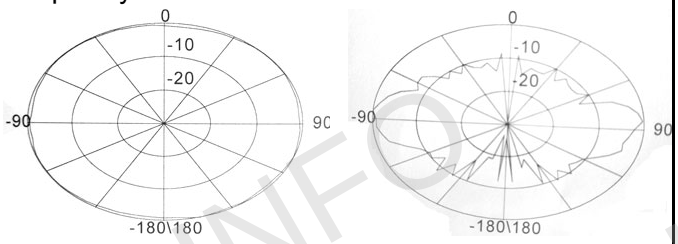

H-Plane E-Plane

Frequency: 10GHz



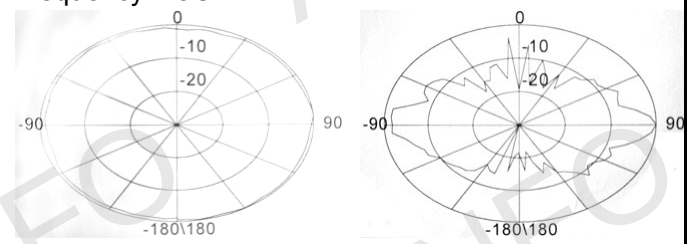

H-Plane E-Plane

Frequency: 14GHz



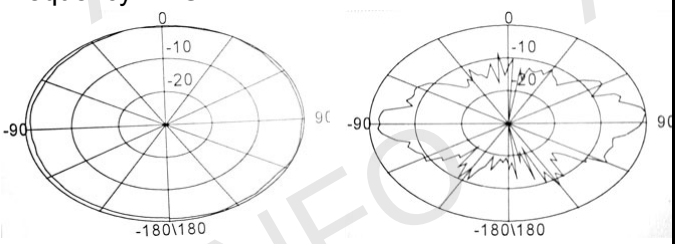

H-Plane E-Plane

Frequency: 18GHz



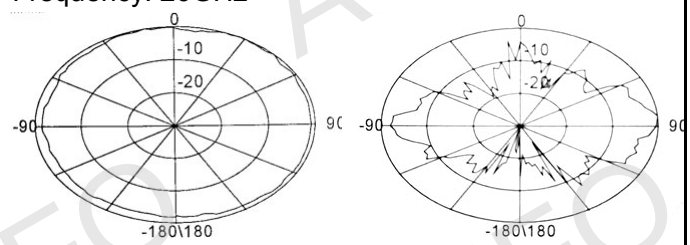

H-Plane E-Plane

Frequency: 22GHz



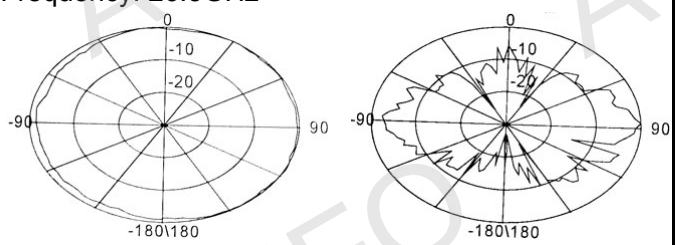

H-Plane E-Plane

Frequency: 26GHz




H-Plane E-Plane

Frequency: 26.5GHz




H-Plane E-Plane



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# Bi-Conical Antenna 3000~40000MHz

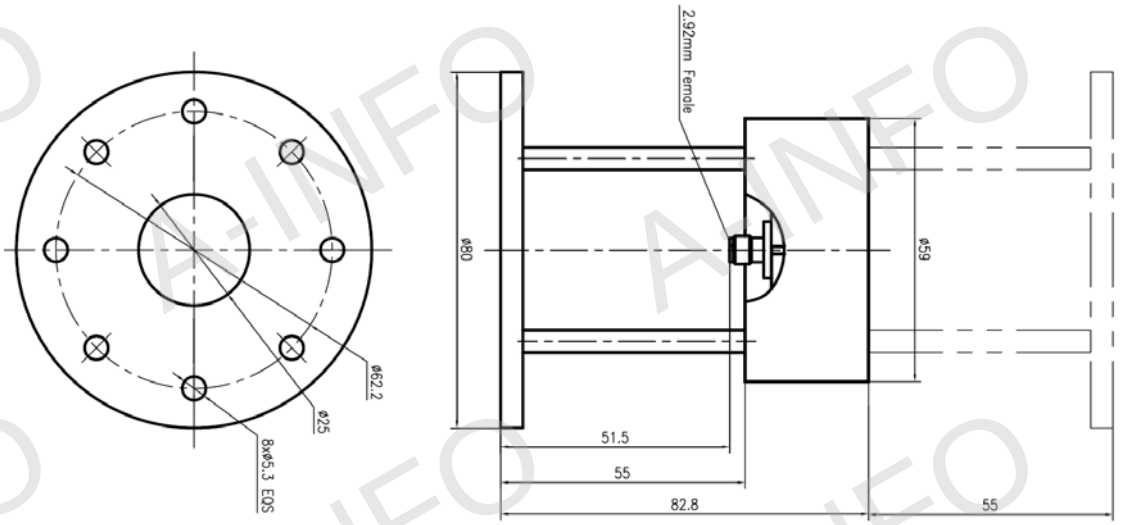
**P/N: SZ-3004000/P**



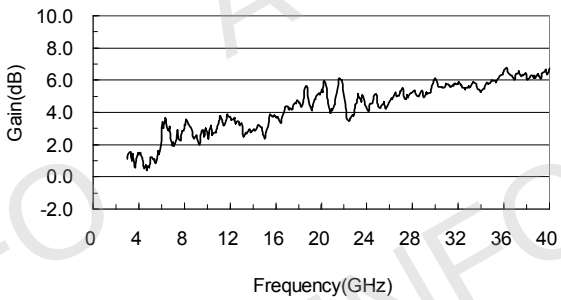
## Technical Specification

| | |
|---|---|
| Frequency(MHz) | 3000-40000 |
| Polarization | Vertical |
| Gain(dB) | 3 Typ. |
| VSWR | 2.0:1 Typ. |
| Power(W) | 30 CW |
| Connector | 2.92mm-Female |
| Size(mm) | Φ80x82.8 |
| Net Weight(Kg) | 0.2Around |

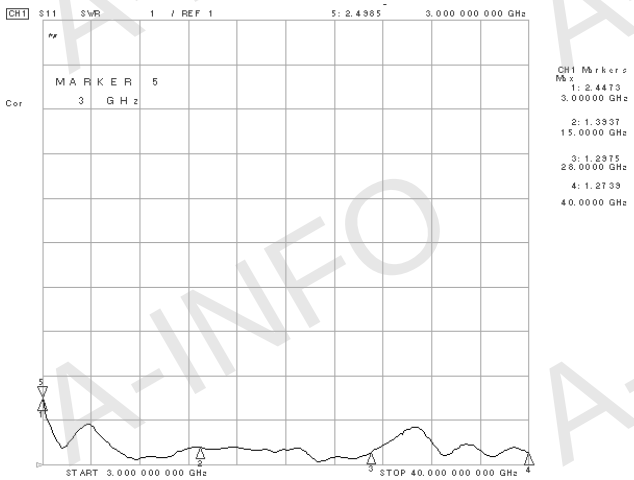
## Outline Drawing(Size:mm)




## Gain




## VSWR





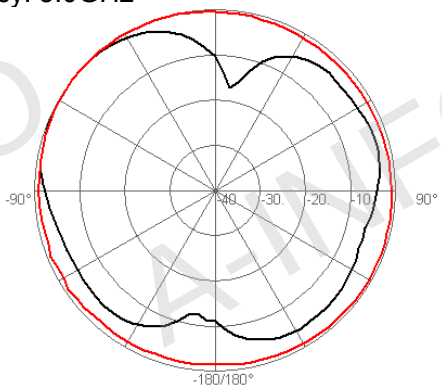

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# Bi-Conical Antenna 3000~40000MHz(continued)

**P/N: SZ-3004000/P**

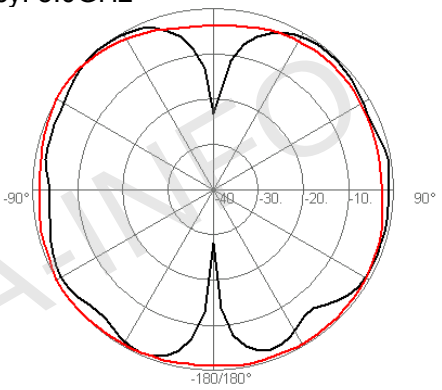
**Pattern**

Frequency: 3.0GHz



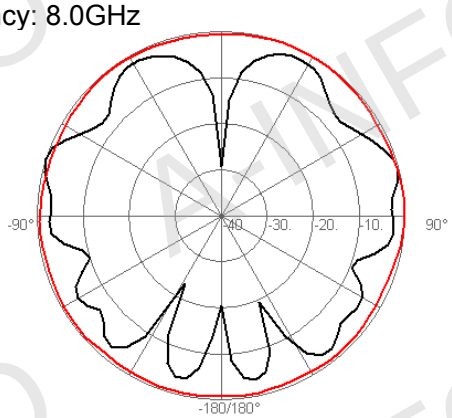

H-Plane ——— E-Plane - - - - -

Frequency: 5.0GHz



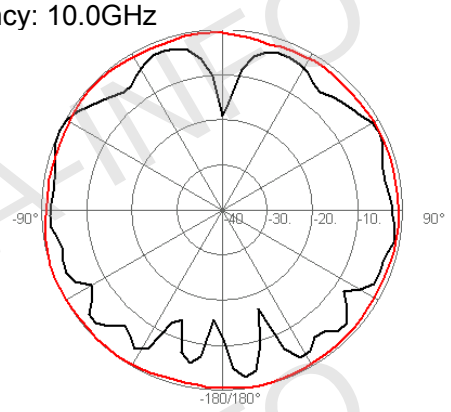

H-Plane ——— E-Plane - - - - -

Frequency: 8.0GHz



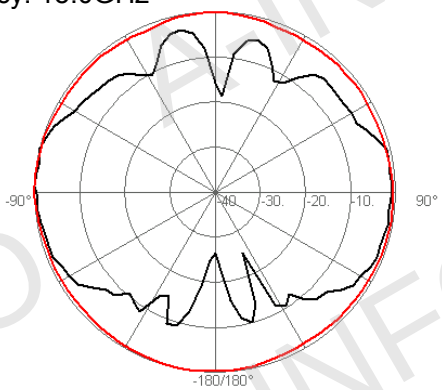

H-Plane ——— E-Plane - - - - -

Frequency: 10.0GHz



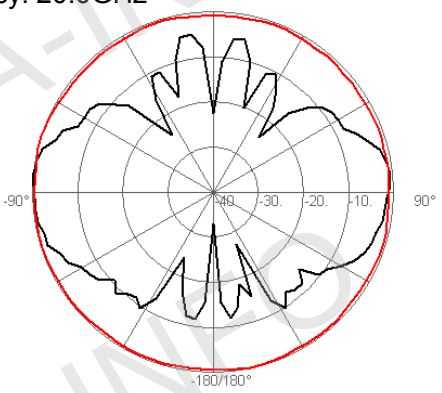

H-Plane ——— E-Plane - - - - -

Frequency: 15.0GHz




H-Plane ——— E-Plane - - - - -

Frequency: 20.0GHz




H-Plane ——— E-Plane - - - - -



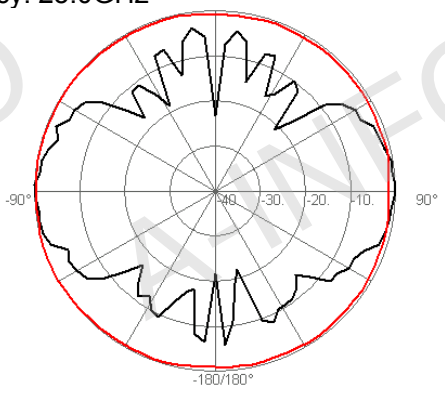
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# Bi-Conical Antenna 3000~40000MHz(continued)

**P/N: SZ-3004000/P**

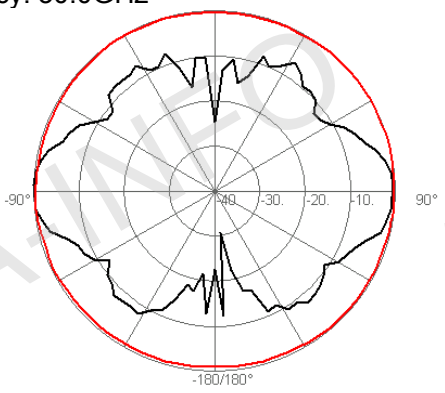
**Pattern**

Frequency: 25.0GHz



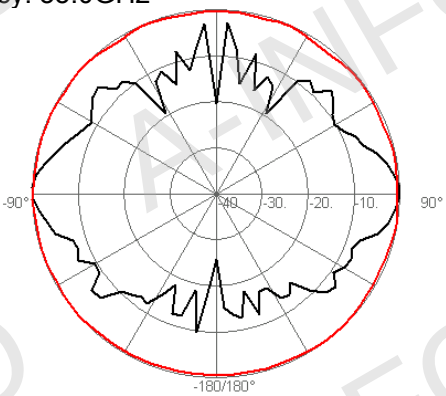

H-Plane ——— E-Plane - - - - -

Frequency: 30.0GHz



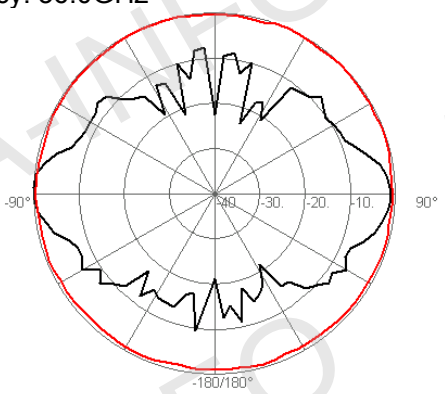

H-Plane ——— E-Plane - - - - -

Frequency: 35.0GHz



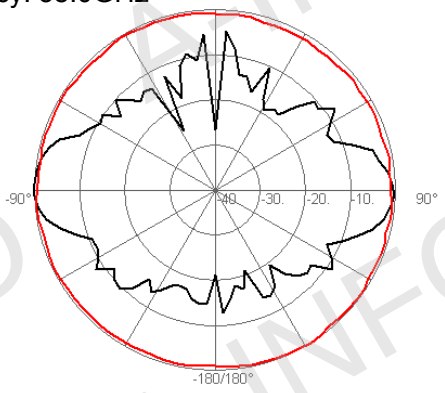

H-Plane ——— E-Plane - - - - -

Frequency: 36.0GHz



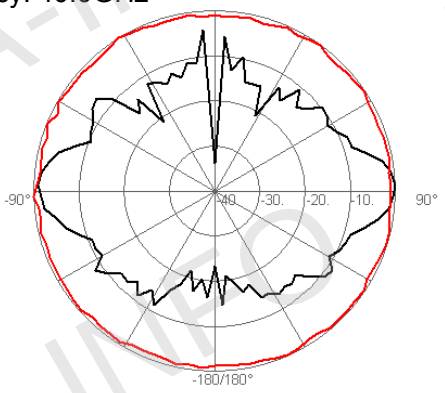

H-Plane ——— E-Plane - - - - -

Frequency: 38.0GHz




H-Plane ——— E-Plane - - - - -

Frequency: 40.0GHz




H-Plane ——— E-Plane - - - - -



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