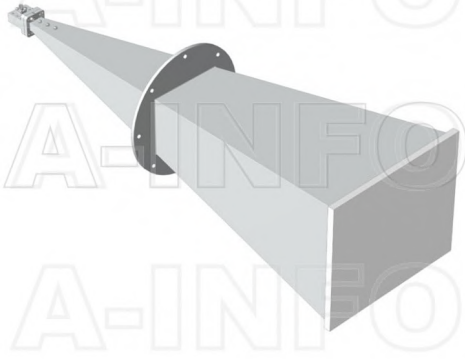


LB-60180-25-C-SFSPO Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain SMA Female



Multi Octave Horn Antenna Operating From 6.0GHz to 18GHz With a Nominal 25dB Gain With SMA Female Connector

### Product Information

|     |                     |
|-----|---------------------|
| SKU | LB-60180-25-C-SFSPO |
|-----|---------------------|

### Description

Multi octave horn antenna LB-60180-25-C-SFSPO, operating from 6.0 to 18.0GHz with a nominal 25dB gain and low VSWR 1.5:1 with SMA Female output connector. The model LB-60180-25-C-SFSPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 50W continuously and 1000W peak power. Constructed of lightweight corrosion-resistant aluminum, the horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. This multi octave horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

## Technical Specification

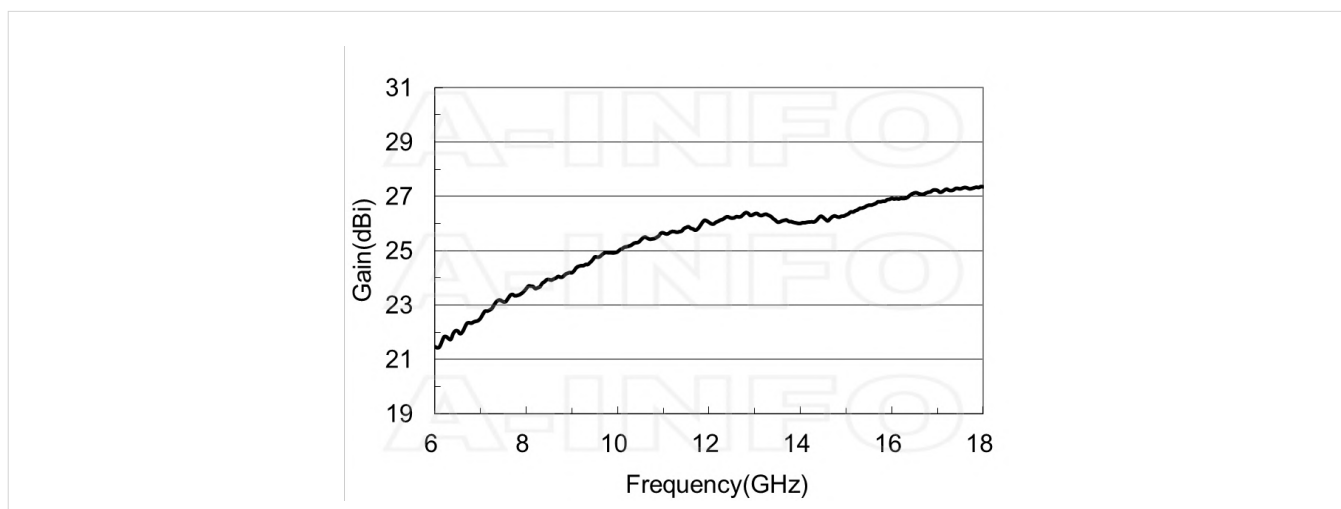
| Electrical Specification           |              | Interface                |   |
|------------------------------------|--------------|--------------------------|---|
| Frequency, Min (GHz)               | 6            | Output Type              | Coaxial   |
| Frequency, Max (GHz)               | 18           | Connector                | SMA   |
| Waveguide Type                     | Double Ridge | Connector Gender         | Female  |
| Waveguide Size EIA WRD             | WRD650       | Mechanical Specification |   |
| Gain, Typ (dBi)                    | 25           | Figure                   | C Type  |
| Polarization                       | Linear       | Body Material            | Al  |
| 3dB Beamwidth, E-Plane, Min (Deg.) | 5            | Finish                   | Passivation and Chemical Conversion Coating, Gray Paint |
| 3dB Beamwidth, E-Plane, Max (Deg.) | 14           | Size, W (mm)             | 241   |
| 3dB Beamwidth, H-Plane, Min (Deg.) | 6            | Size, H (mm)             | 200   |
| 3dB Beamwidth, H-Plane, Max (Deg.) | 15           | Size, L (mm)             | 752   |
| Cross Pol. Isolation, Typ (dB)     | 30           |                          |   |
| VSWR, Typ                          | 1.5:1        |                          |   |
| Impedance, (Ohm)                   | 50           |                          |   |
| Power Handling, CW, (W)            | 50           |                          |   |
| Power Handling, Peak, (W)          | 1000         |                          |   |

## Additional Information

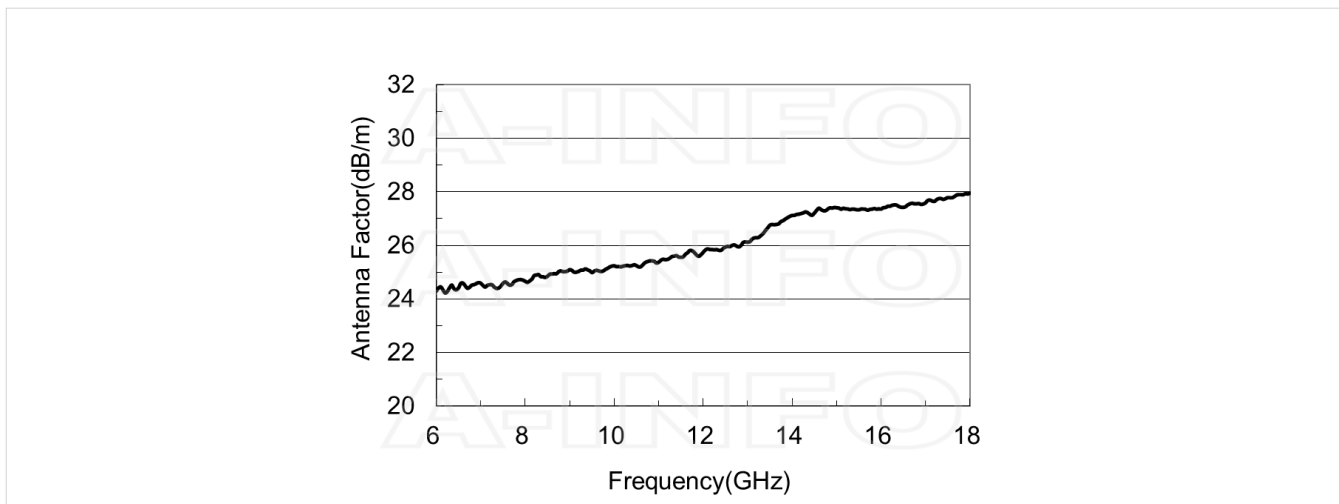
|             |  |              |   |
|-------------|--|--------------|---|
| Application | Outdoor, Waterproof and Dustproof, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Far-field Measurement<br>System Intergration |
|-------------|--|--------------|---|

## Typical Test Results

### Gain



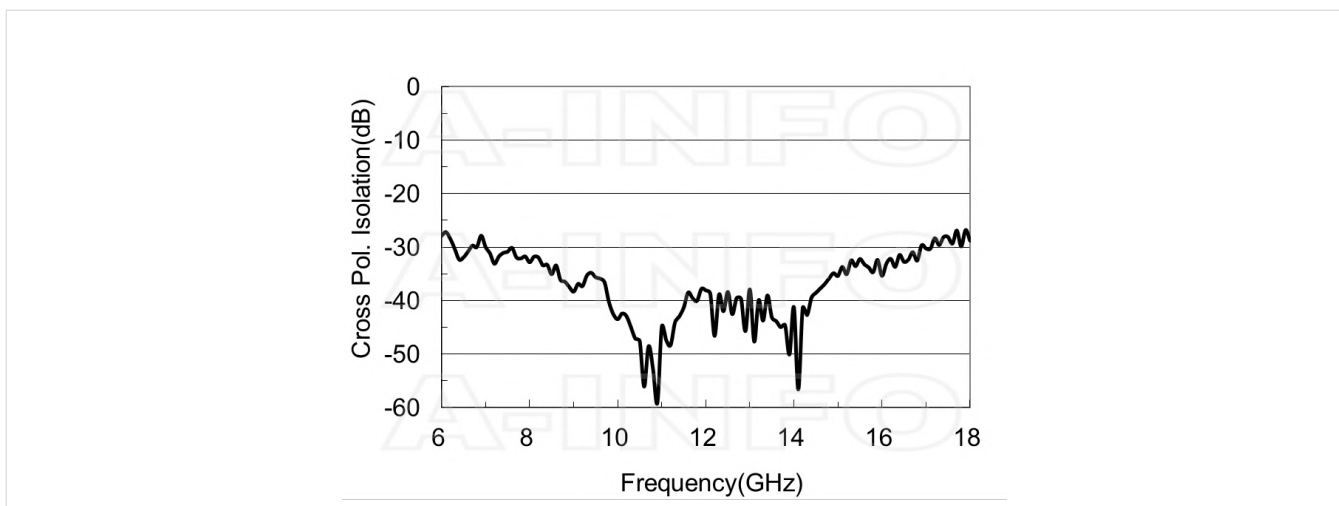
## Antenna Factor



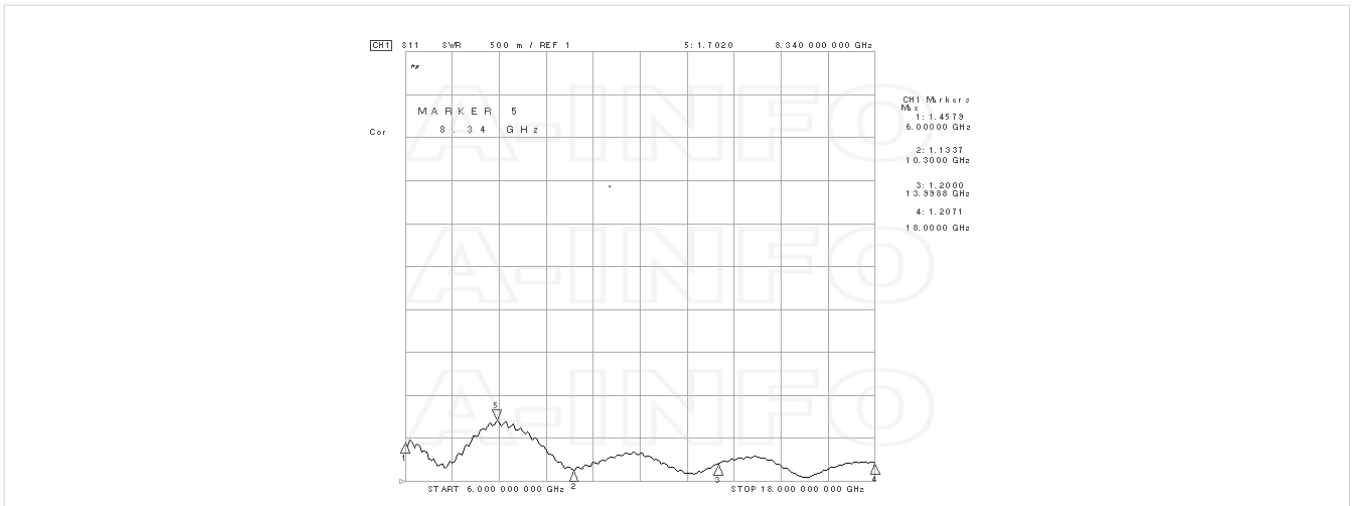
## Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi) | AF(dB/m) |
|----------------|-----------|----------|
| 6.0            | 21.47     | 24.30    |
| 7.0            | 22.52     | 24.59    |
| 8.0            | 23.61     | 24.66    |
| 9.0            | 24.20     | 25.10    |
| 10.0           | 24.97     | 25.24    |
| 11.0           | 25.66     | 25.38    |
| 12.0           | 26.05     | 25.75    |
| 13.0           | 26.36     | 26.13    |
| 14.0           | 26.01     | 27.12    |
| 15.0           | 26.32     | 27.41    |
| 16.0           | 26.93     | 27.36    |
| 17.0           | 27.22     | 27.59    |
| 18.0           | 27.35     | 27.96    |

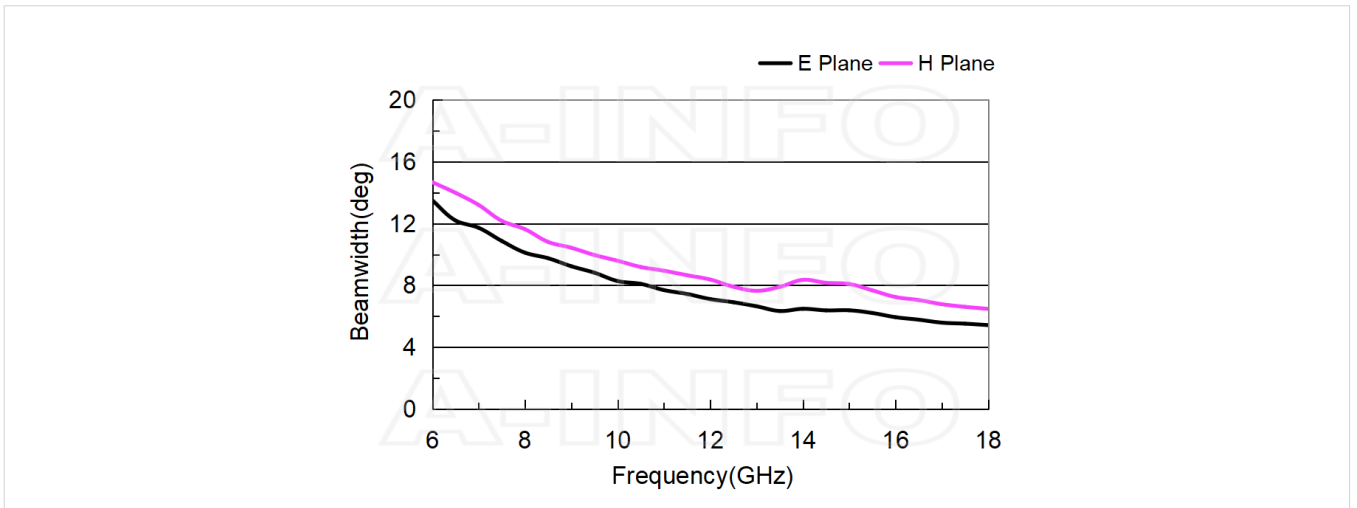
## Cross Polarization Isolation



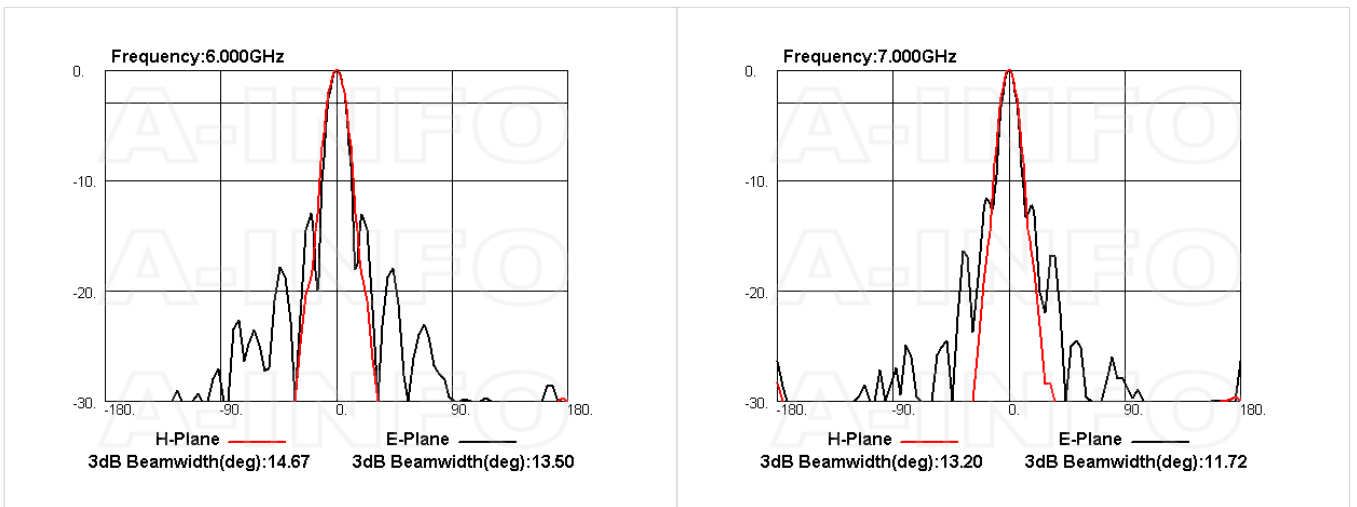
## VSWR

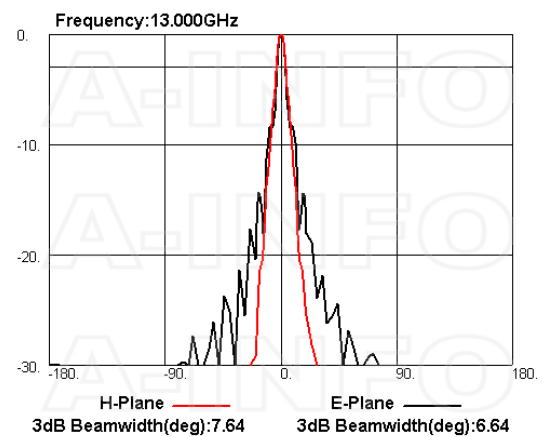
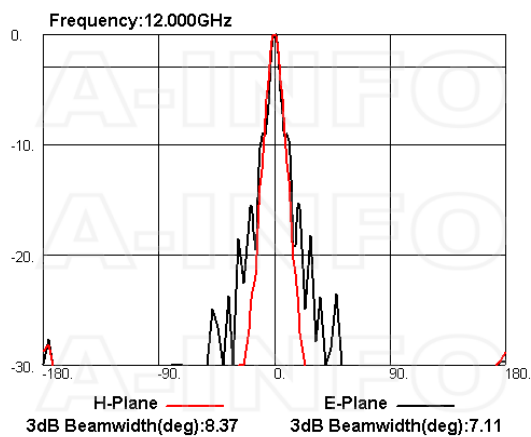
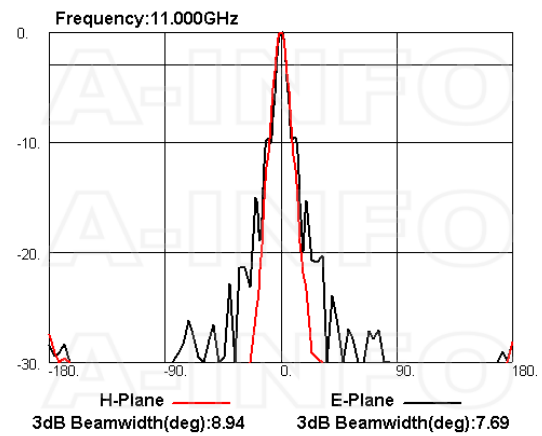
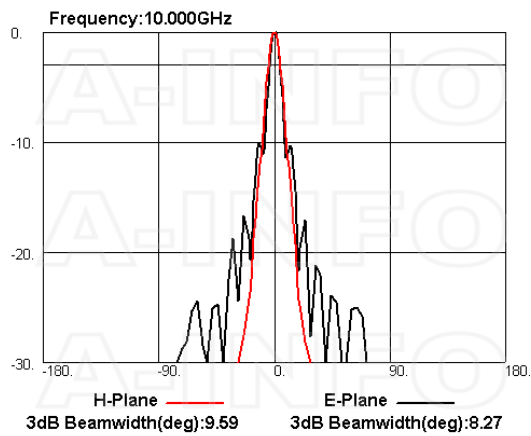
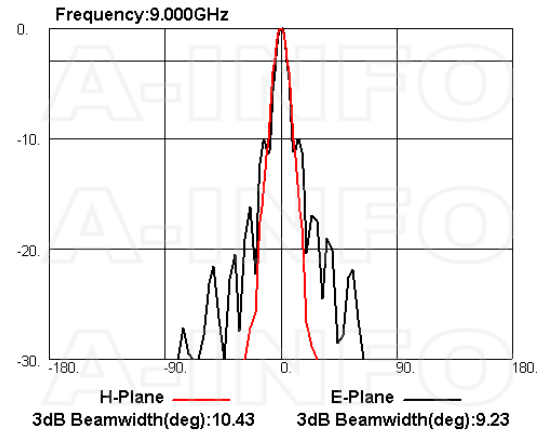
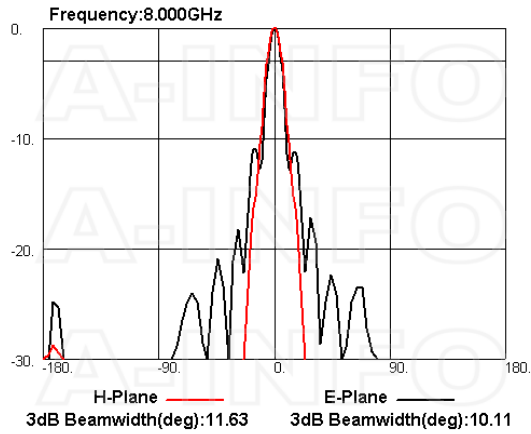


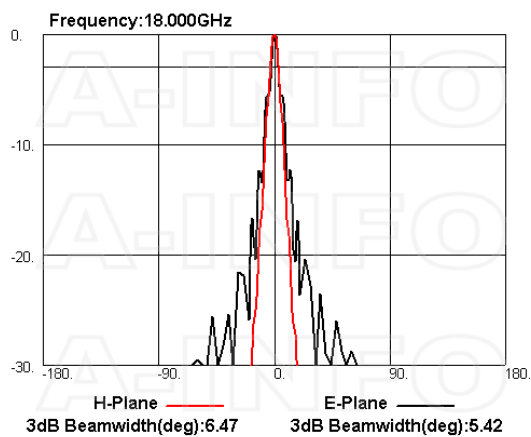
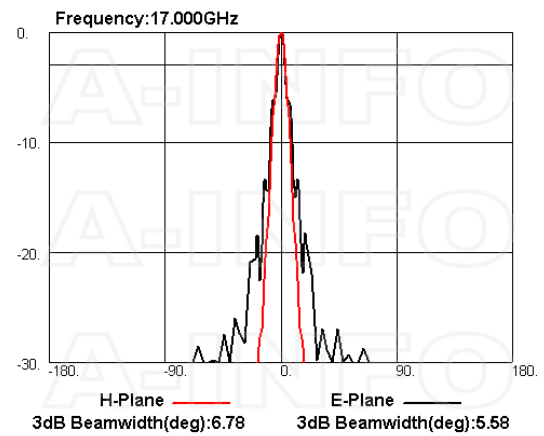
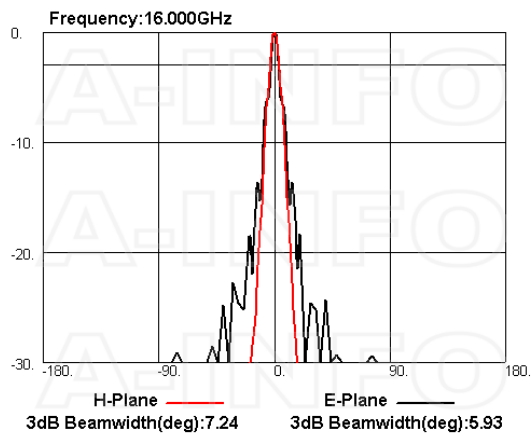
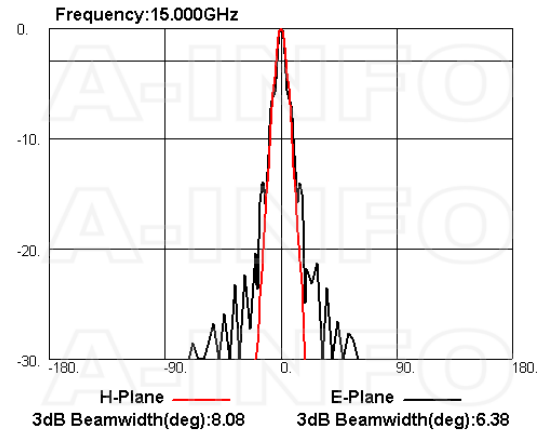
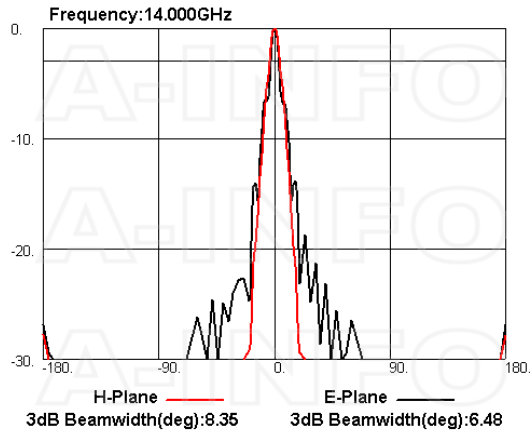
## Beamwidth



## Pattern







Related Products



LB-90-25-MB2 Round Type Mounting Bracket



LB-90-25-L2 L Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



SM-SM-A050-1000 Flexible Cable Assembly 1000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-1500 Flexible Cable Assembly 1500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-2000 Flexible Cable Assembly 2000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-3000 Flexible Cable Assembly 3000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-5000 Flexible Cable Assembly 5000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-10000 Flexible Cable Assembly 10000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



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SM-SM-A080-20000 Flexible Cable Assembly 20000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A100-100 Flexible Cable Assembly 100mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-200 Flexible Cable Assembly 200mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-300 Flexible Cable Assembly 300mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-500 Flexible Cable Assembly 500mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-1000 Flexible Cable Assembly 1000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-1500 Flexible Cable Assembly 1500mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-2000 Flexible Cable Assembly 2000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-3000 Flexible Cable Assembly 3000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-5000 Flexible Cable Assembly 5000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-10000 Flexible Cable Assembly 10000mm DC- 18GHz SMA Male to SMA Male

### Similar Products



LB-60180-25-A Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain Double Ridge Waveguide Interface



LB-60180-25-ASPO Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain Double Ridge Waveguide Interface



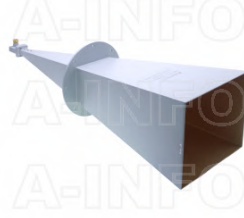
LB-60180-25-C-NF Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain N Type Female



LB-60180-25-C-NFSP0 Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain N Type Female



LB-60180-25-C-SF Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain SMA Female



LB-60180-25-C-HNF Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain High Power N Type Female



LB-60180-25-C-HNFSP0 Multi Octave Horn Antenna 6.0-18.0GHz 25dB Gain High Power N Type Female

### About this Datasheet

- **Product Information**

Product Link:  
<https://www.ainfoinc.com/lb-60180-25-c-sfsp0-multi-octave-horn-antenna-6-0-18-0-ghz-25db-gain-sma-female>  
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