



LB-65180-10-C-NF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain N Type Female

Multi Octave Horn Antenna Operating From 6.5GHz to 18GHz With a Nominal 10dB Gain With N Type Female Connector

## Product Information

|     |                  |
|-----|------------------|
| SKU | LB-65180-10-C-NF |
|-----|------------------|

## Description

Multi octave horn antenna LB-65180-10-C-NF, operating from 6.5 to 18GHz with a nominal 10dB gain and low VSWR 1.5:1 with N Type Female output connector. The model LB-65180-10-C-NF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W continuously and 3000W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. 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

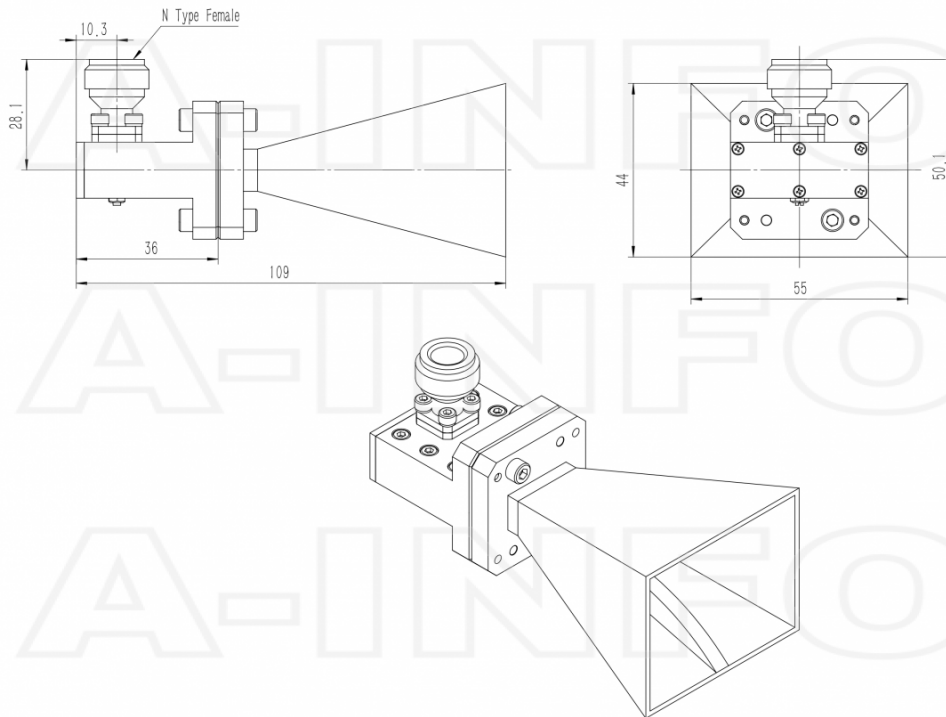
| Electrical Specification           |              | Interface                |   |
|------------------------------------|--------------|--------------------------|---|
| Frequency, Min (GHz)               | 6.5          | Output Type              | Coaxial                                   |
| Frequency, Max (GHz)               | 18           | Connector                | N Type                                    |
| Waveguide Type                     | Double Ridge | Connector Gender         | Female                                    |
| Waveguide Size EIA WRD             | WRD650       | Mechanical Specification |   |
| Gain, Typ (dBi)                    | 10           | Figure                   | C Type                                    |
| Polarization                       | Linear       | Body Material            | Al  |
| 3dB Beamwidth, E-Plane, Min (Deg.) | 21           | Finish                   | Nickel Plated and Passivation, Gray Paint |
| 3dB Beamwidth, E-Plane, Max (Deg.) | 67           | Size, W (mm)             | 55  |
| 3dB Beamwidth, H-Plane, Min (Deg.) | 22           | Size, H (mm)             | 50.1                                      |
| 3dB Beamwidth, H-Plane, Max (Deg.) | 64           | Size, L (mm)             | 109                                       |
| Cross Pol. Isolation, Typ (dB)     | 40           | Weight, (kg)             | 0.23                                      |
| VSWR, Typ                          | 1.5:1        |                          |   |
| Impedance, (Ohm)                   | 50           |                          |   |
| Power Handling, CW, (W)            | 150          |                          |   |
| Power Handling, Peak, (W)          | 3000         |                          |   |

## Additional Information

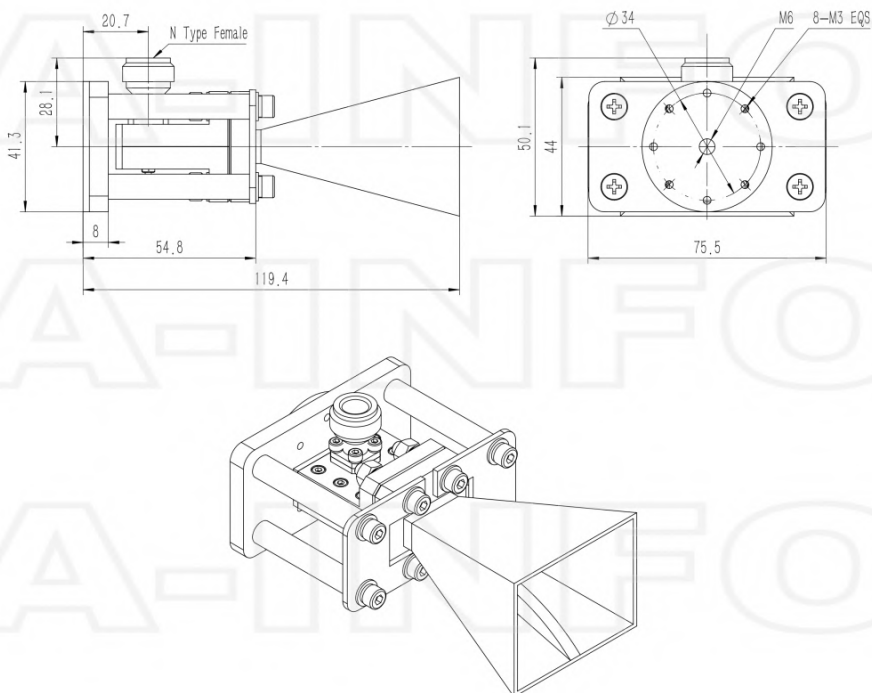
|             |   |              |   |
|-------------|---|--------------|---|
| Application | General Purpose Indoor & Outdoor, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Far-field Measurement<br>System Intergration |
|-------------|---|--------------|---|

## Outline Drawing

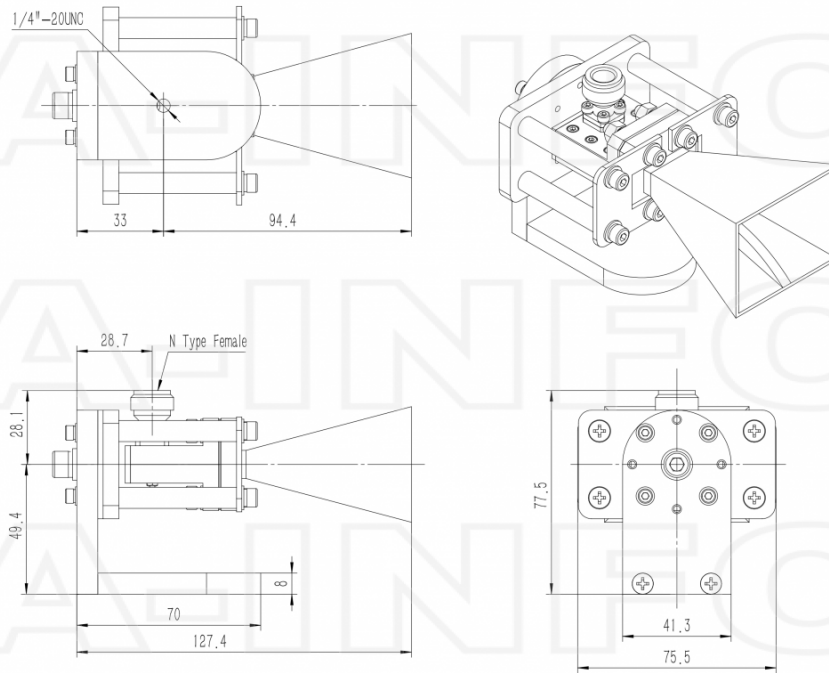
N-Female Output (P/N: LB-65180-10-C-NF)



N-Female Output with Round Mounting Bracket (Option, P/N: LB-65180-10-C-MB)

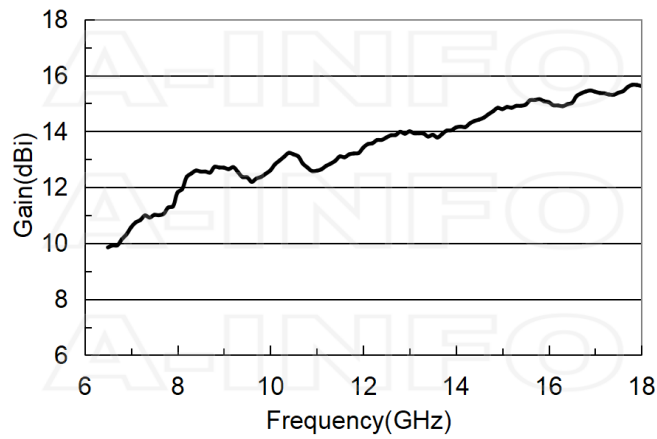


N-Female Output with L Type Mounting Bracket (Option, P/N: LB-65180-10-C-MBL)

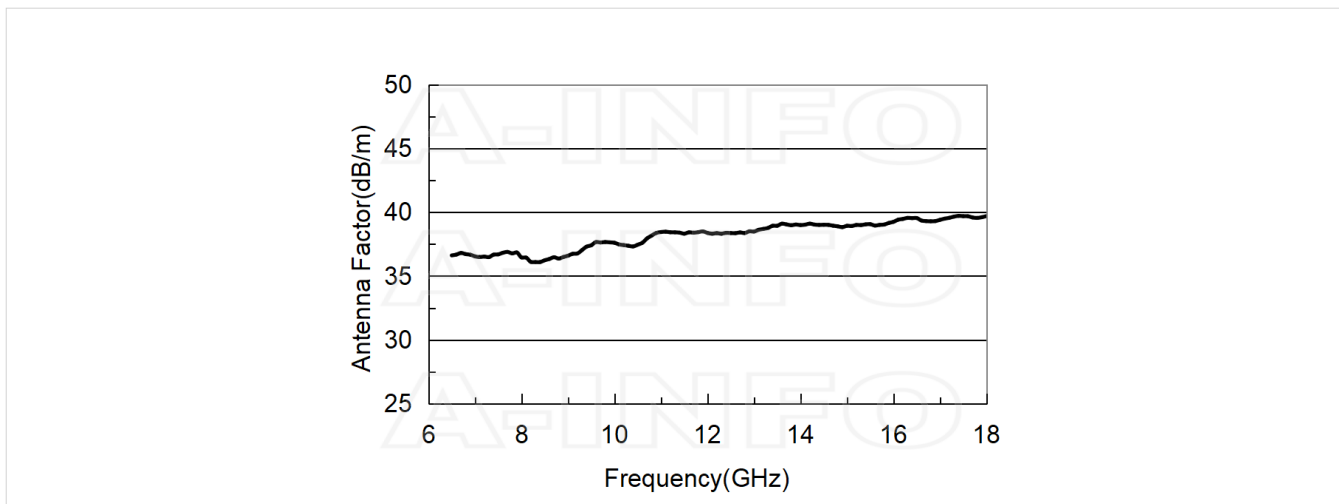


## Typical Test Results

### Gain



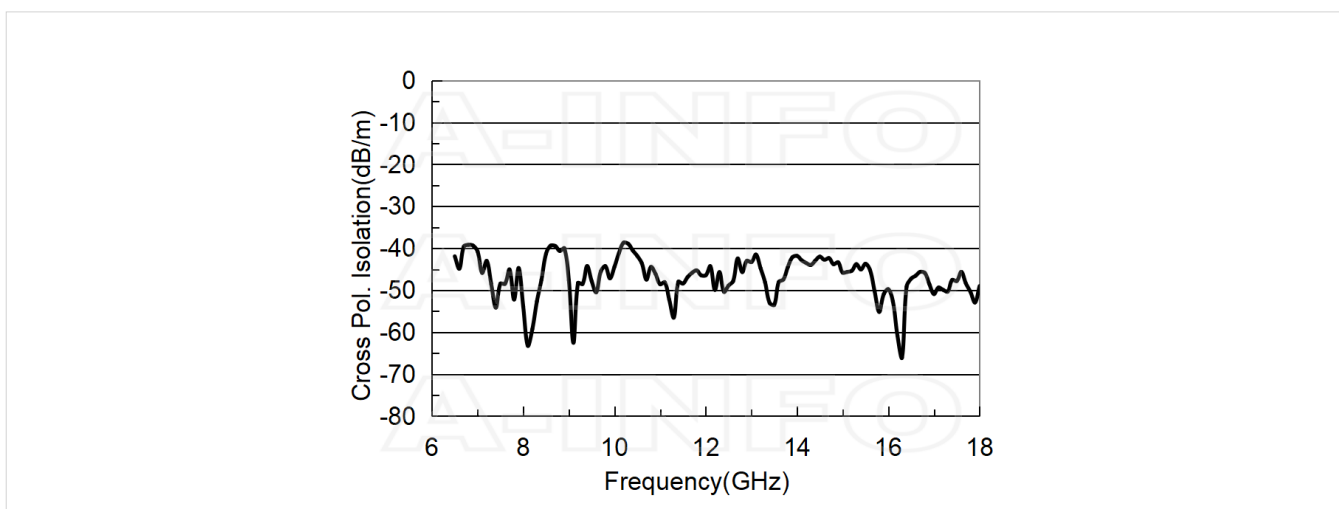
## Antenna Factor



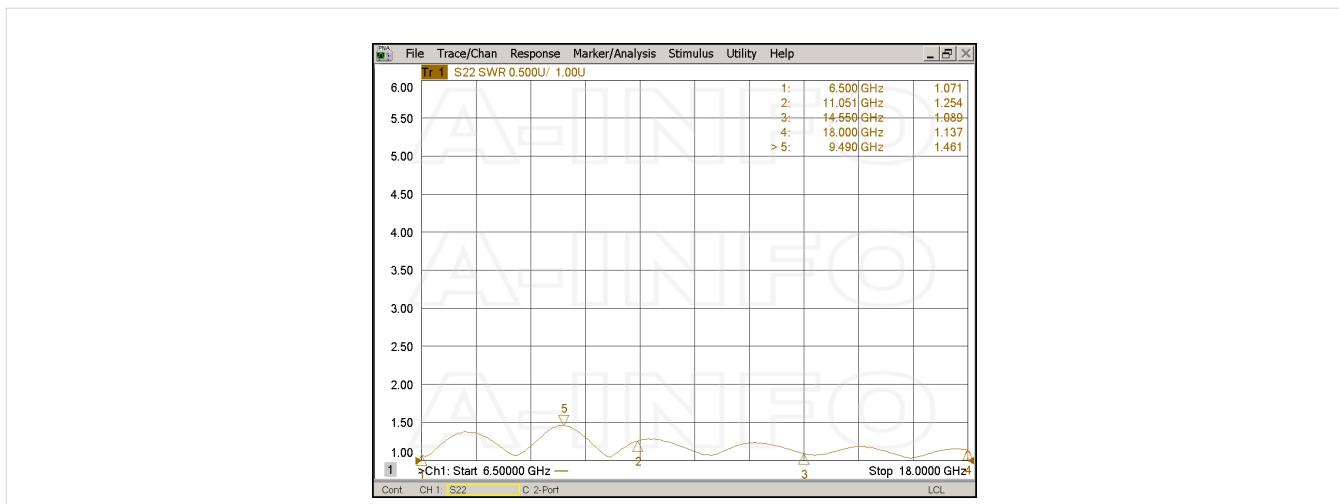
## Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi ) | Antenna Factor(dB/m) |
|----------------|------------|----------------------|
| 6.5            | 9.85       | 36.62                |
| 7.0            | 10.57      | 36.54                |
| 8.0            | 11.81      | 36.46                |
| 9.0            | 12.70      | 36.59                |
| 10.0           | 12.60      | 37.61                |
| 11.0           | 12.59      | 38.45                |
| 12.0           | 13.41      | 38.38                |
| 13.0           | 14.00      | 38.49                |
| 14.0           | 14.14      | 38.99                |
| 15.0           | 14.80      | 38.94                |
| 16.0           | 15.04      | 39.25                |
| 17.0           | 15.41      | 39.41                |
| 18.0           | 15.62      | 39.70                |

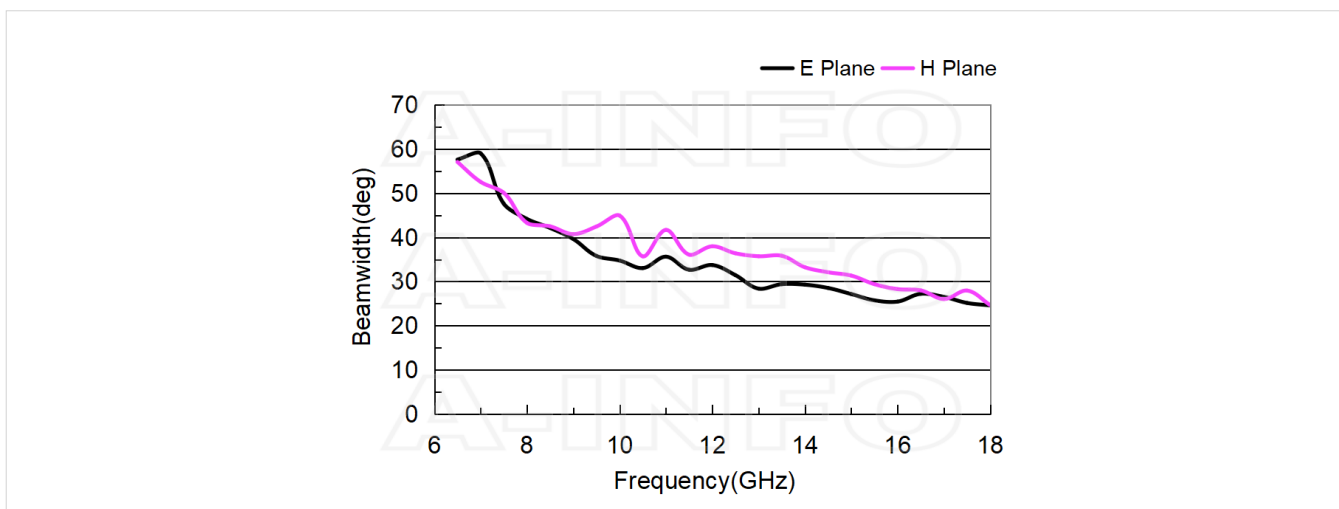
## Cross Polarization Isolation



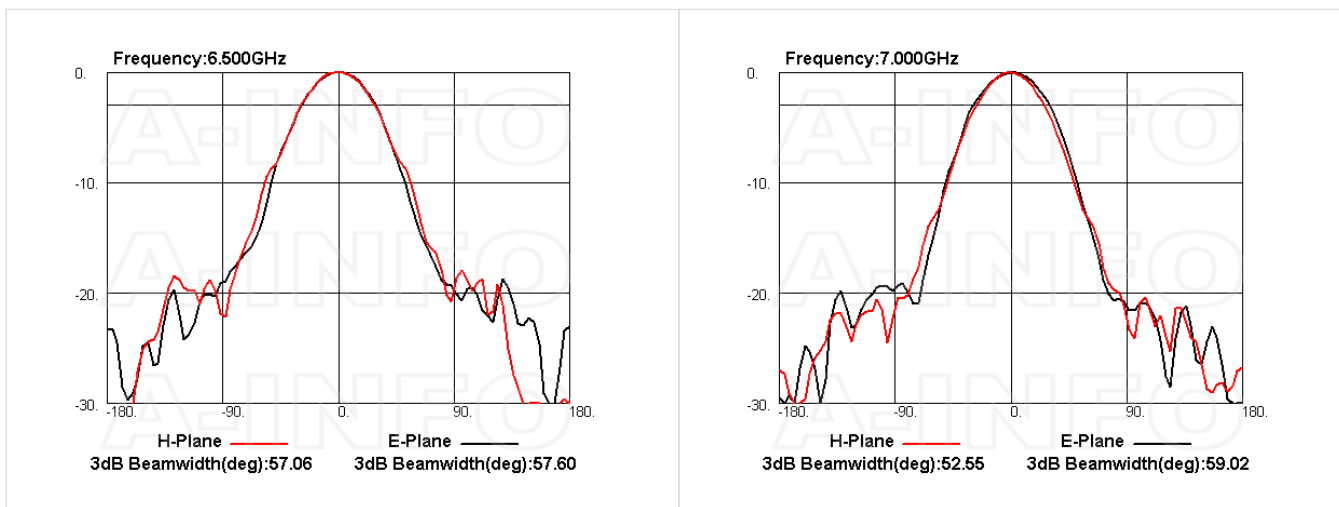
## VSWR

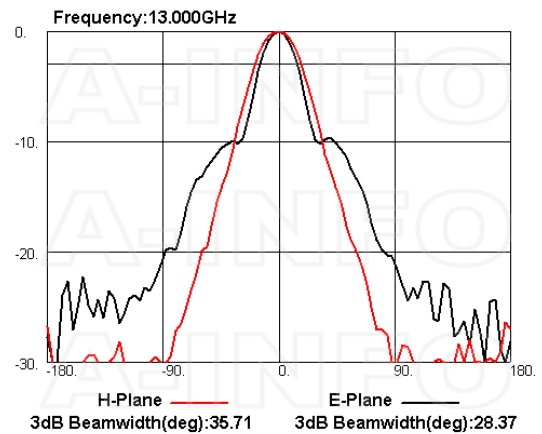
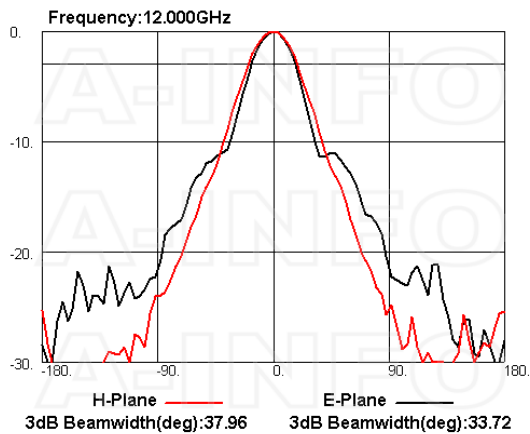
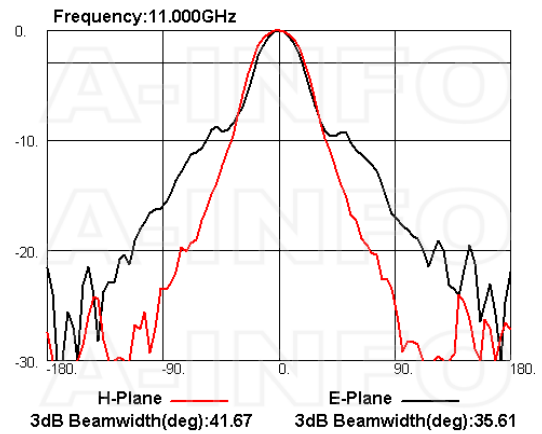
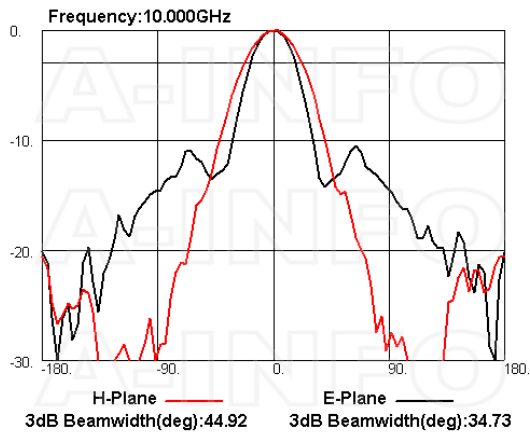
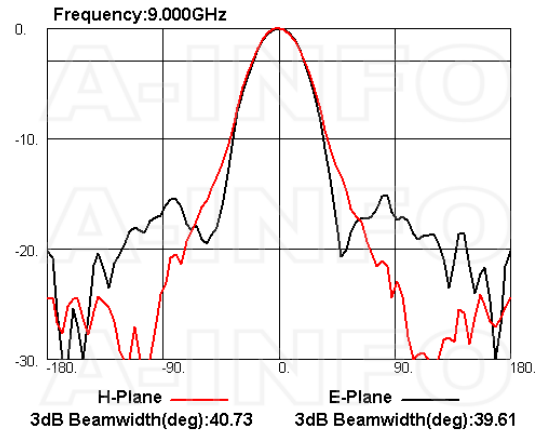
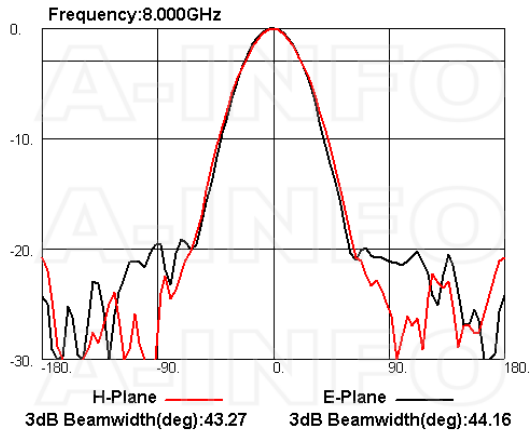


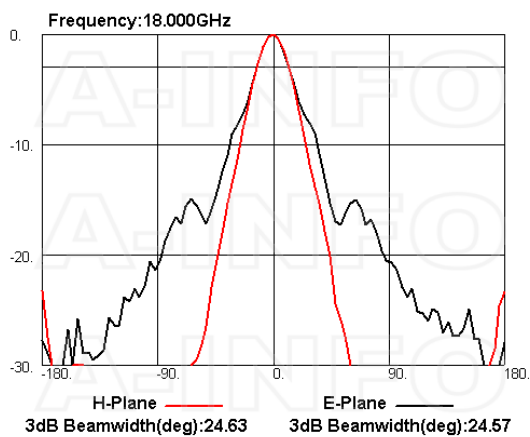
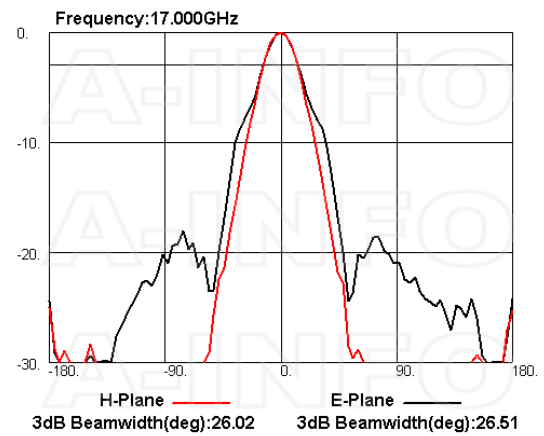
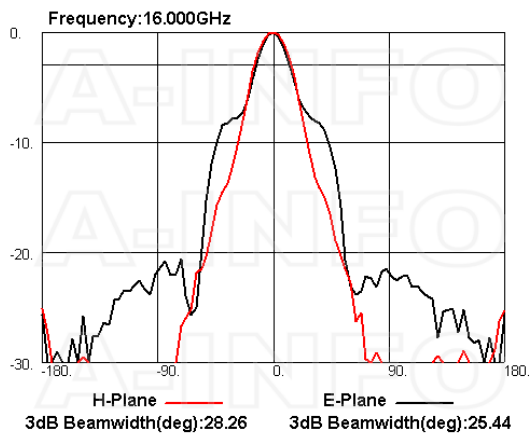
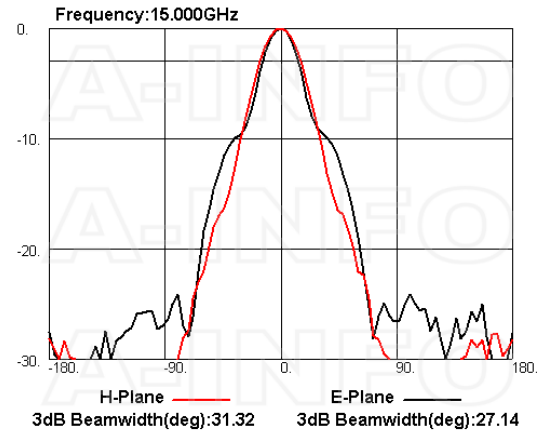
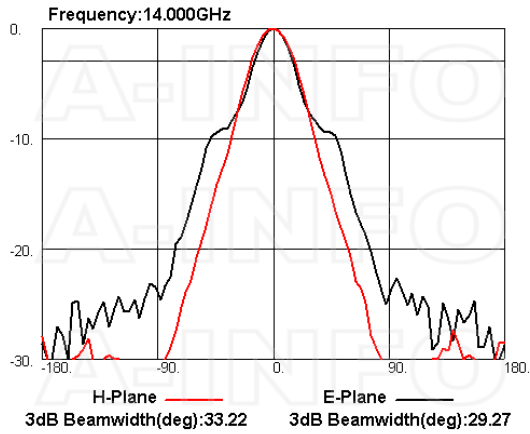
## Beamwidth



## Pattern







## Related Products



LB-65180-10-C-MB Round Type Mounting Bracket



LB-65180-10-C-MBL L type mounting bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case\_LB-65180-10 Al Alloy Carrying Case



NM-NM-A050-500 Flexible Cable Assembly 500mm DC- 18GHz N Male to N Male



NM-NM-A050-1000 Flexible Cable Assembly 1000mm DC- 18GHz N Male to N Male



NM-NM-A050-1500 Flexible Cable Assembly 1500mm DC- 18GHz N Male to N Male



NM-NM-A050-2000 Flexible Cable Assembly 2000mm DC- 18GHz N Male to N Male



NM-NM-A050-3000 Flexible Cable Assembly 3000mm DC- 18GHz N Male to N Male



NM-NM-A050-5000 Flexible Cable Assembly 5000mm DC- 18GHz N Male to N Male



NM-NM-A050-10000 Flexible Cable Assembly 10000mm DC- 18GHz N Male to N Male



NM-NM-A050-20000 Flexible Cable Assembly 20000mm DC- 18GHz N Male to N Male



NM-NM-A100-500 Flexible Cable Assembly 500mm DC- 18GHz N Male to N Male



NM-NM-A100-1000 Flexible Cable Assembly 1000mm DC- 18GHz N Male to N Male



NM-NM-A100-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A100-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A100-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A100-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

## Similar Products



LB-65180-10-A Multi Octave Horn Antenna 6.5-18GHz 10dB Gain Double Ridge Waveguide Interface



LB-65180-10-ASPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain Double Ridge Waveguide Interface



LB-65180-10-C-NFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain N Type Female



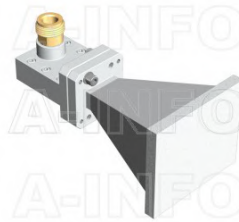
LB-65180-10-C-SF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain SMA Female



LB-65180-10-C-SFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain SMA Female



LB-65180-10-C-HNF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain High Power N Type Female.



LB-65180-10-C-HNFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain High Power N Type Female

## About this Datasheet

|   |  |   |
|---|--|---|
| <ul style="list-style-type: none"><li>● <b>Product Information</b><br/>Product Link:<br/><a href="https://www.ainfoinc.com/lb-65180-10-c-nf-multi-octave-horn-antenna-6-5-18-ghz-10db-gain-n-type-female">https://www.ainfoinc.com/lb-65180-10-c-nf-multi-octave-horn-antenna-6-5-18-ghz-10db-gain-n-type-female</a><br/>Data subject to change without notice.<br/>© A-INFO INC. 2024. All Rights Reserved</li></ul> | <ul style="list-style-type: none"><li>● <b>Contact Us</b><br/>Address:<br/>60 Tesla, Irvine, CA 92618,<br/>USA<br/><br/>Website:<br/><a href="http://www.ainfoinc.com">www.ainfoinc.com</a><br/><br/>Email:<br/><a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></li></ul> | <ul style="list-style-type: none"><li>● <b>Phone &amp; Fax</b><br/>Phone:<br/>+1-949-639-9688<br/>+1-949-639-9608<br/><br/>Fax:<br/>+1-949-639-9670</li></ul> |
|---|--|---|