



LB-3582-15-C-ENF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain
Endlaunch N Type Female

Multi Octave Horn Antenna Operating From 3.5GHz to 8.2GHz With a
Nominal 15dB Gain With Endlaunch N Type Female Connector

Product Information

| | |
|-----|------------------|
| SKU | LB-3582-15-C-ENF |
|-----|------------------|

Description

Multi octave horn antenna LB-3582-15-C-ENF, operating from 3.5 to 8.2GHz with a nominal 15dB gain and low VSWR 1.5:1 with Endlaunch N Type Female output connector. The model LB-3582-15-C-ENF 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

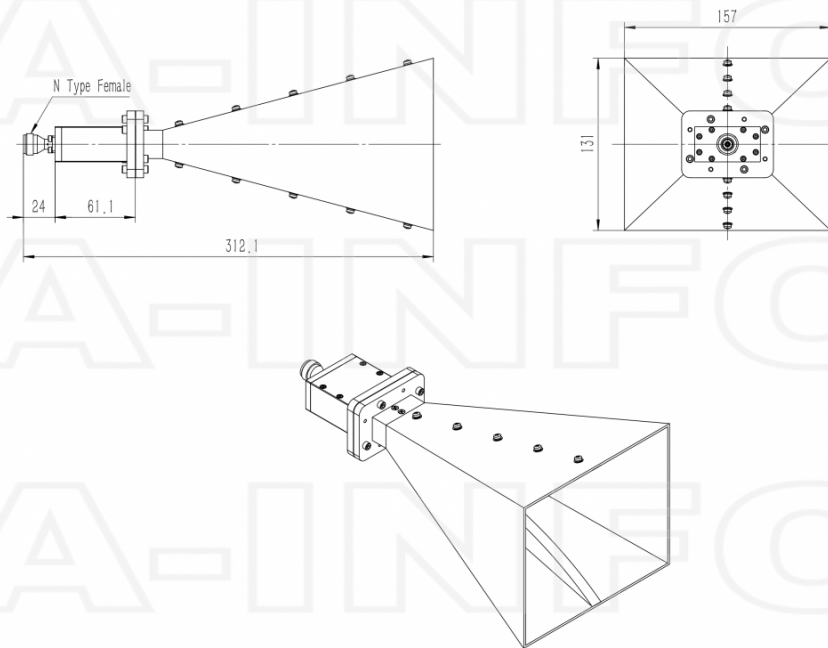
| Electrical Specification | | Interface | |
|------------------------------------|--------------|--------------------------|---|
| Frequency, Min (GHz) | 3.5 | Output Type | Coaxial |
| Frequency, Max (GHz) | 8.2 | Connector | N Type |
| Waveguide Type | Double Ridge | Connector Gender | Female |
| Waveguide Size EIA WRD | WRD350 | Mechanical Specification | |
| Gain, Typ (dBi) | 15 | Figure | C Type |
| Polarization | Linear | Body Material | Al |
| 3dB Beamwidth, E-Plane, Min (Deg.) | 19 | Finish | Chemical Conversion Coating, Gray Paint |
| 3dB Beamwidth, E-Plane, Max (Deg.) | 33 | Size, W (mm) | 157 |
| 3dB Beamwidth, H-Plane, Min (Deg.) | 19 | Size, H (mm) | 131 |
| 3dB Beamwidth, H-Plane, Max (Deg.) | 37 | Size, L (mm) | 312.1 |
| Cross Pol. Isolation, Typ (dB) | 25 | Weight, (kg) | 0.77 |
| 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 Antenna Measurement Far-field Measurement System Intergration |
|-------------|---|--------------|---|

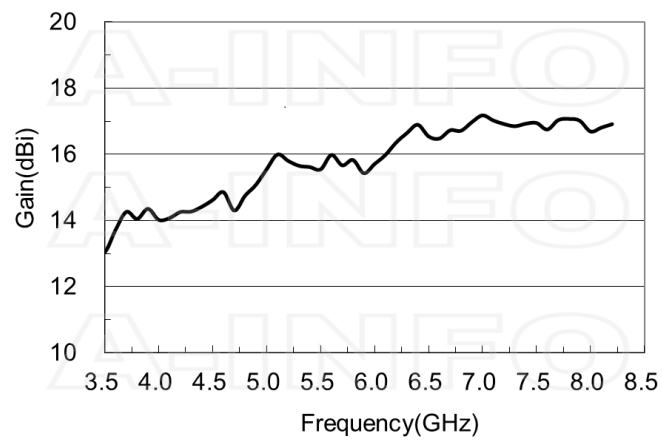
Outline Drawing

Endlaunch N-Female Output (P/N: LB-3582-15-C-ENF)

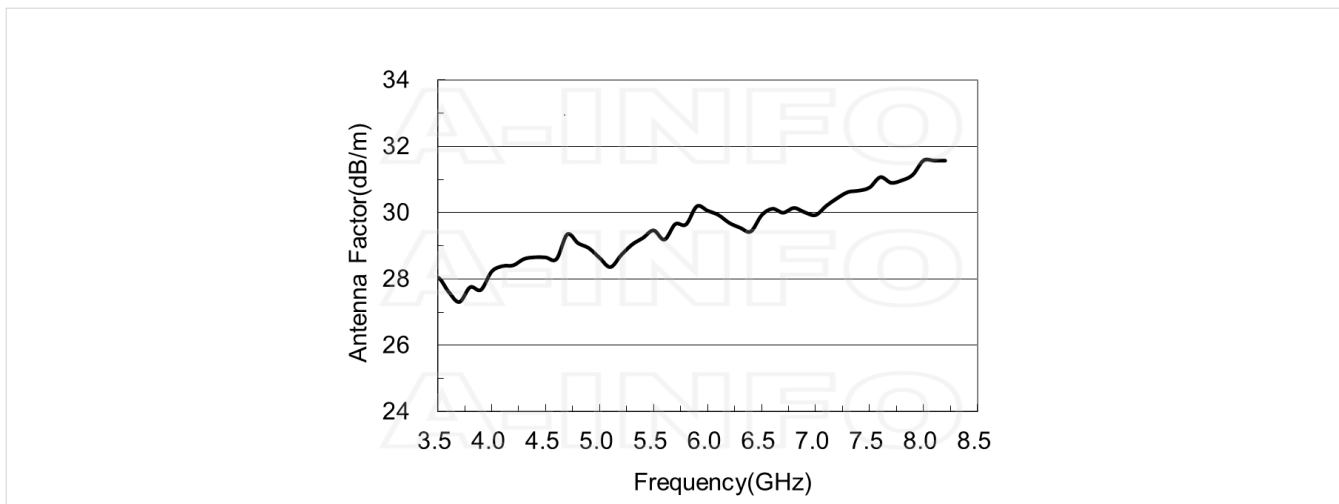


Typical Test Results

Gain



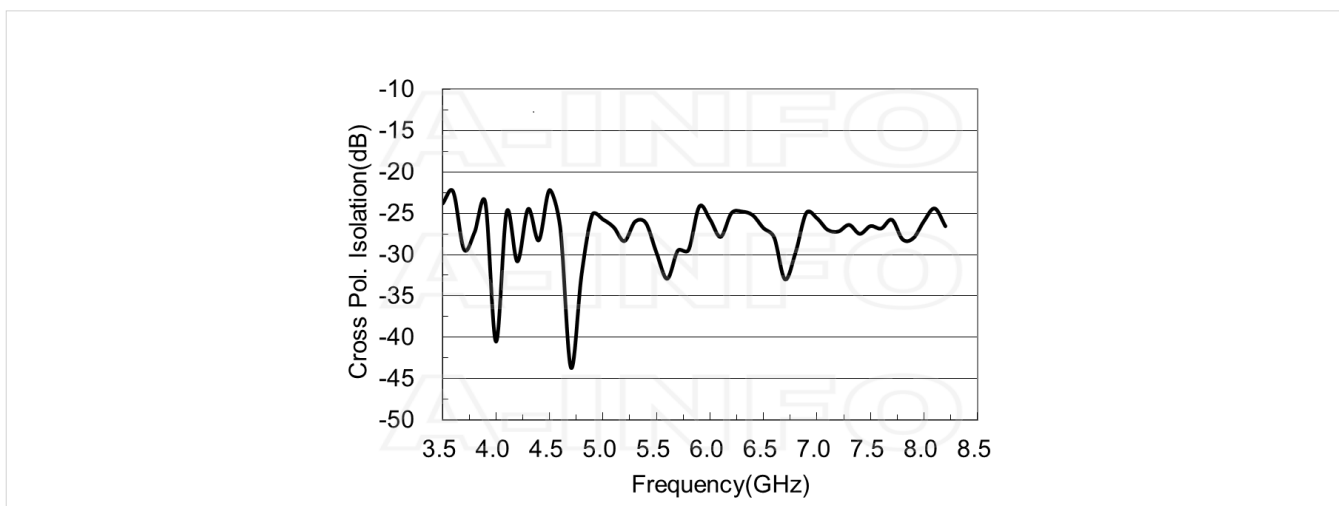
Antenna Factor



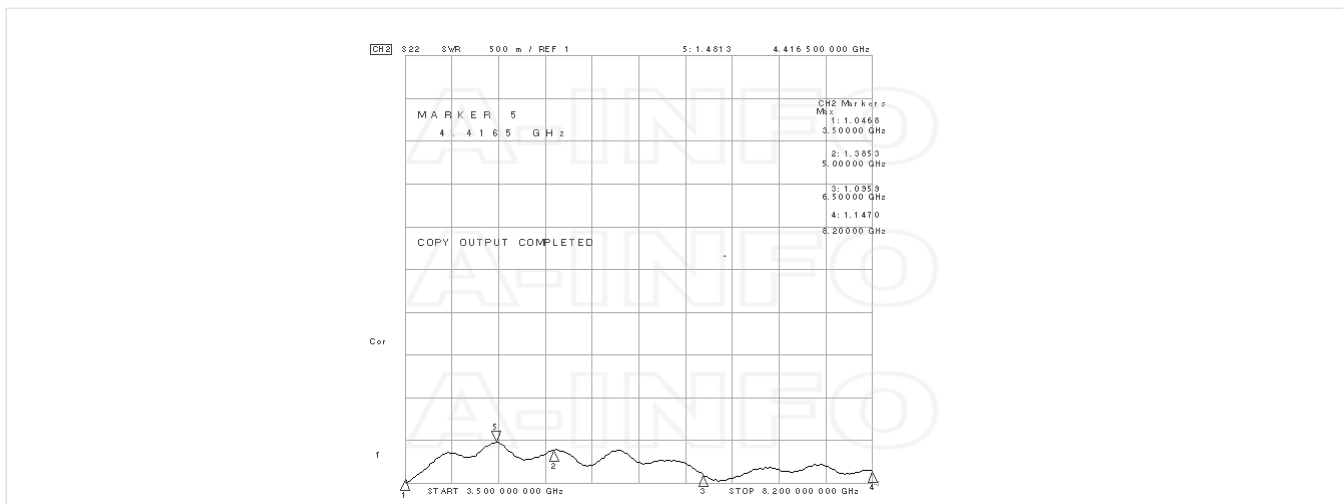
Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi) | AF(dB/m) |
|----------------|-----------|----------|
| 3.5 | 13.05 | 28.04 |
| 4.0 | 14.02 | 28.23 |
| 4.5 | 14.62 | 28.65 |
| 5.0 | 15.55 | 28.64 |
| 5.5 | 15.55 | 29.47 |
| 6.0 | 15.71 | 30.06 |
| 6.5 | 16.54 | 29.93 |
| 7.0 | 17.18 | 29.93 |
| 7.5 | 16.95 | 30.76 |
| 8.0 | 16.69 | 31.58 |
| 8.2 | 16.92 | 31.57 |

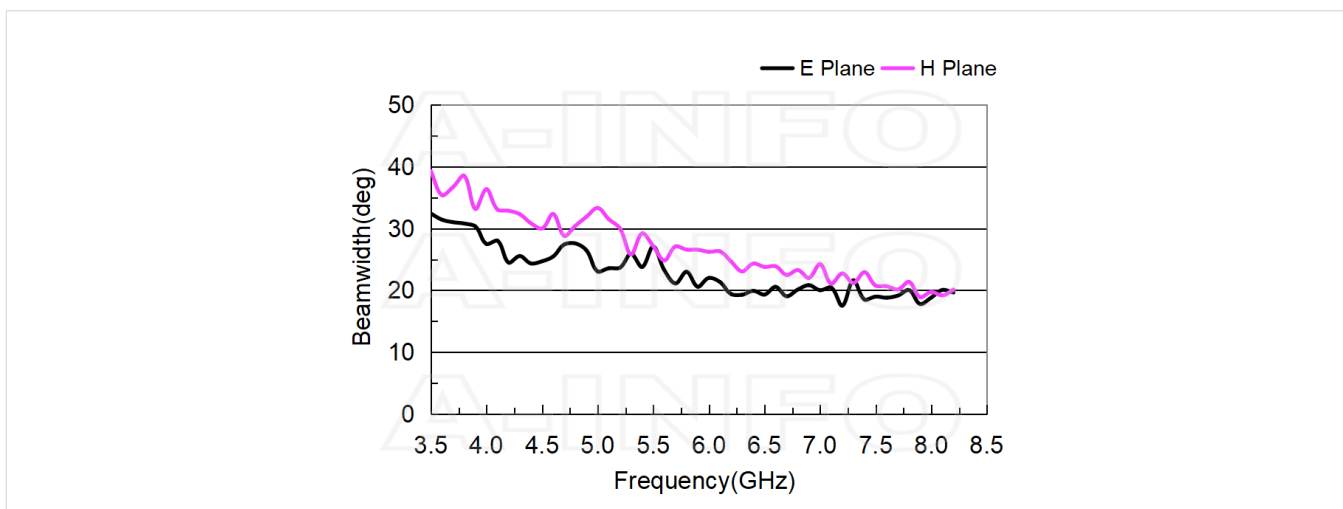
Cross Polarization Isolation



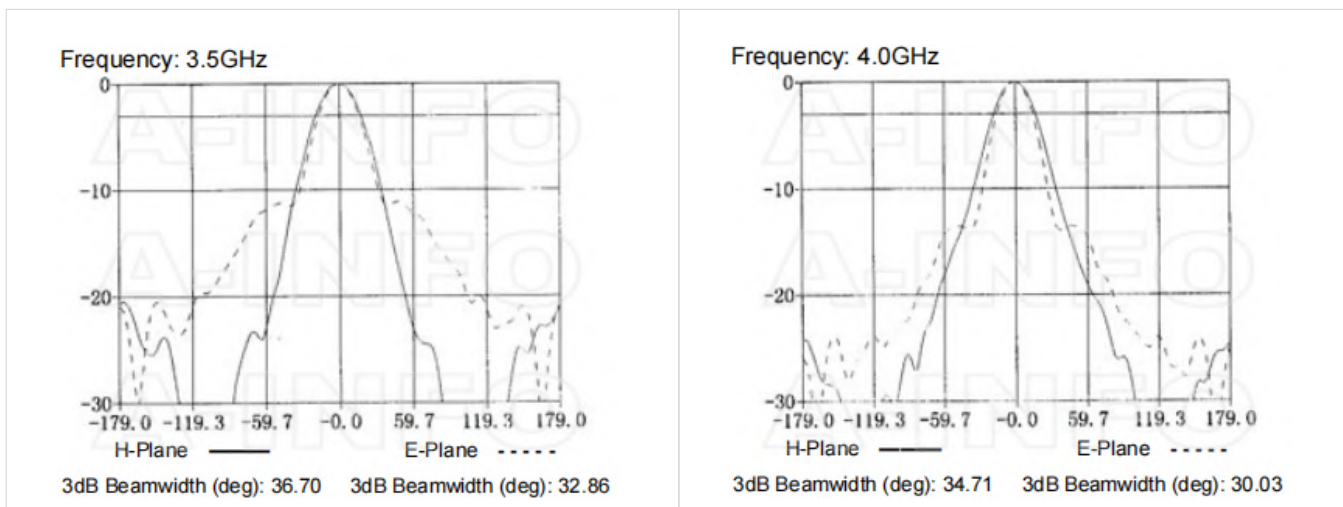
VSWR



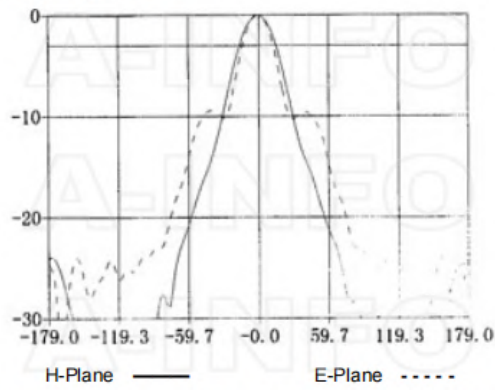
Beamwidth



Pattern

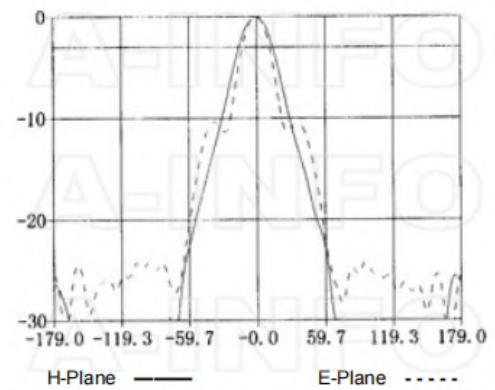


Frequency: 4.5GHz



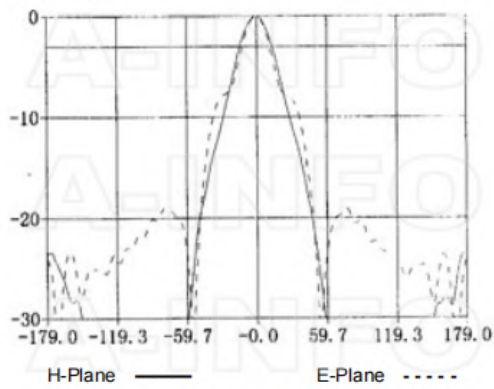
3dB Beamwidth (deg): 30.91 3dB Beamwidth (deg): 26.19

Frequency: 5.0GHz



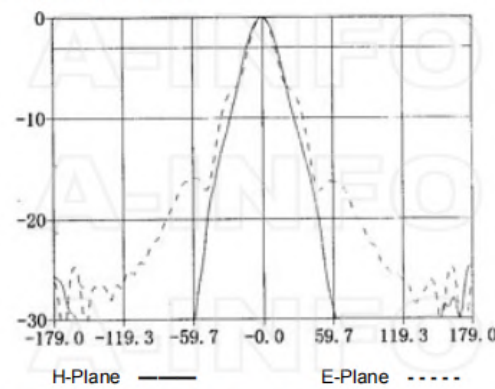
3dB Beamwidth (deg): 29.55 3dB Beamwidth (deg): 23.88

Frequency: 5.5GHz



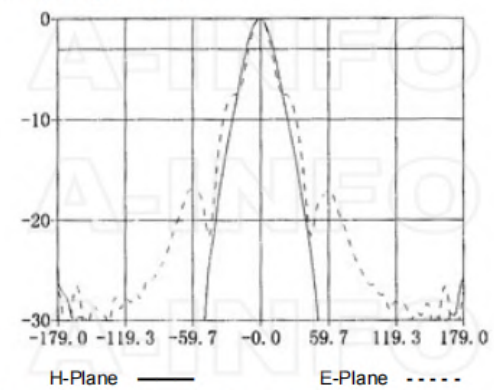
3dB Beamwidth (deg): 27.58 3dB Beamwidth (deg): 23.64

Frequency: 6.0GHz



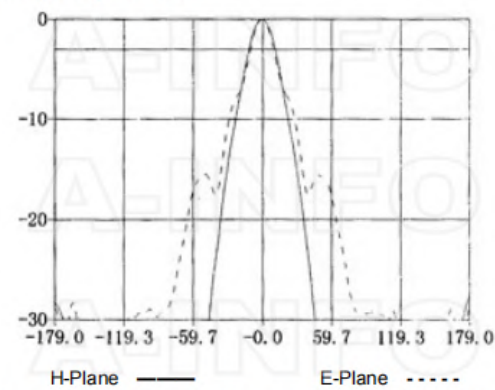
3dB Beamwidth (deg): 25.82 3dB Beamwidth (deg): 22.66

Frequency: 6.5GHz

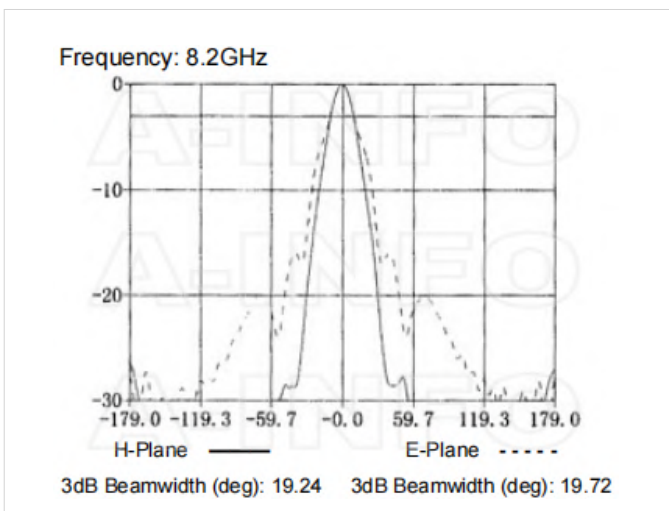
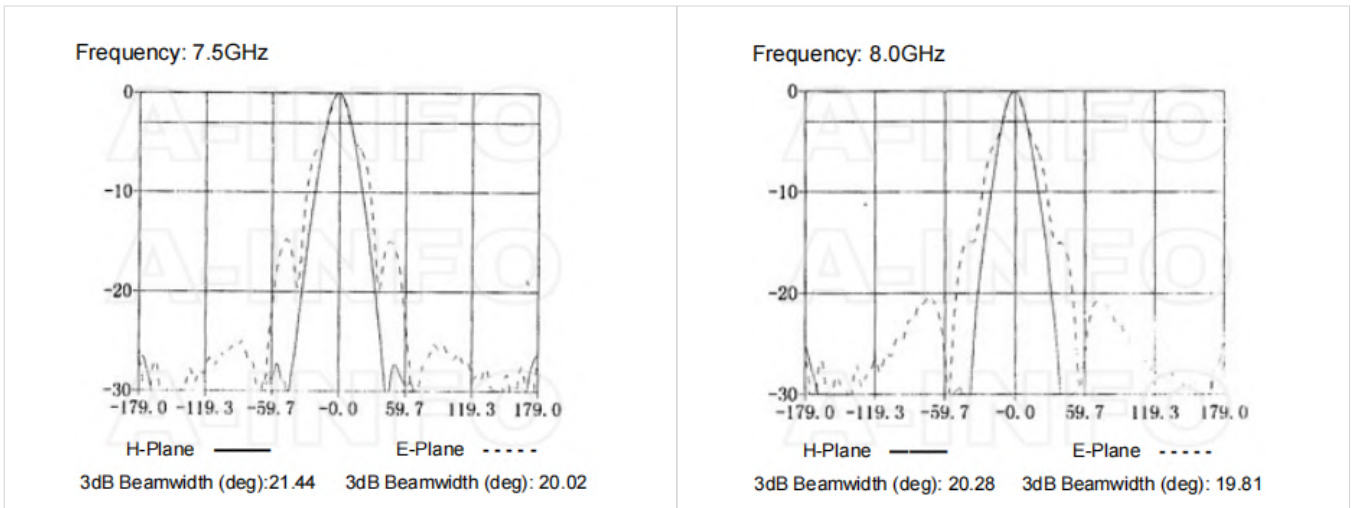


3dB Beamwidth (deg): 23.80 3dB Beamwidth (deg): 19.93

Frequency: 7.0GHz



3dB Beamwidth (deg): 22.52 3dB Beamwidth (deg): 19.76



Related Products



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

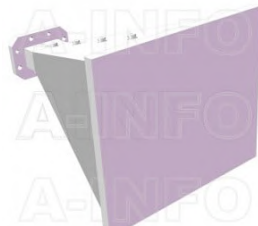


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

Similar Products



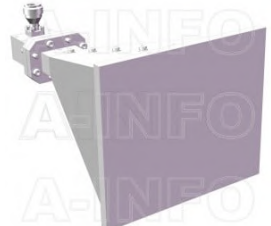
LB-3582-15-A Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



LB-3582-15-ASPO Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



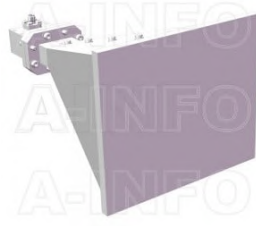
LB-3582-15-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-NFSP0 Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-SF Multi Octave
Horn Antenna 3.5-8.2GHz 15dB
Gain SMA Female



LB-3582-15-C-SFSP0 Multi
Octave Horn Antenna 3.5-8.2GHz
15dB Gain SMA Female



LB-3582-15-C-ESF Multi Octave
Horn Antenna 3.5-8.2GHz 15dB
Gain Endlaunch SMA Female

About this Datasheet

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|---|--|---|
| <ul style="list-style-type: none"> ● Product Information Product Link: https://www.ainfoinc.com/lb-3582-15-c-enf-multi-octave-horn-antenna-3-5-8-2-ghz-15db-gain-n-type-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved | <ul style="list-style-type: none"> ● Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com | <ul style="list-style-type: none"> ● Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670 |
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