

LB-58160-10-C-NF Multi Octave Horn Antenna 5.8-16GHz 10dB Gain N Type Female



Multi Octave Horn Antenna Operating From 5.8GHz to 16GHz With a Nominal 10dB Gain With N Type Female Connector

### Product Information

SKU	LB-58160-10-C-NF
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### Description

Multi octave horn antenna LB-58160-10-C-NF, operating from 5.8 to 16GHz with a nominal 10dB gain and low VSWR 1.5:1 with N Type Female output connector. The model LB-58160-10-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

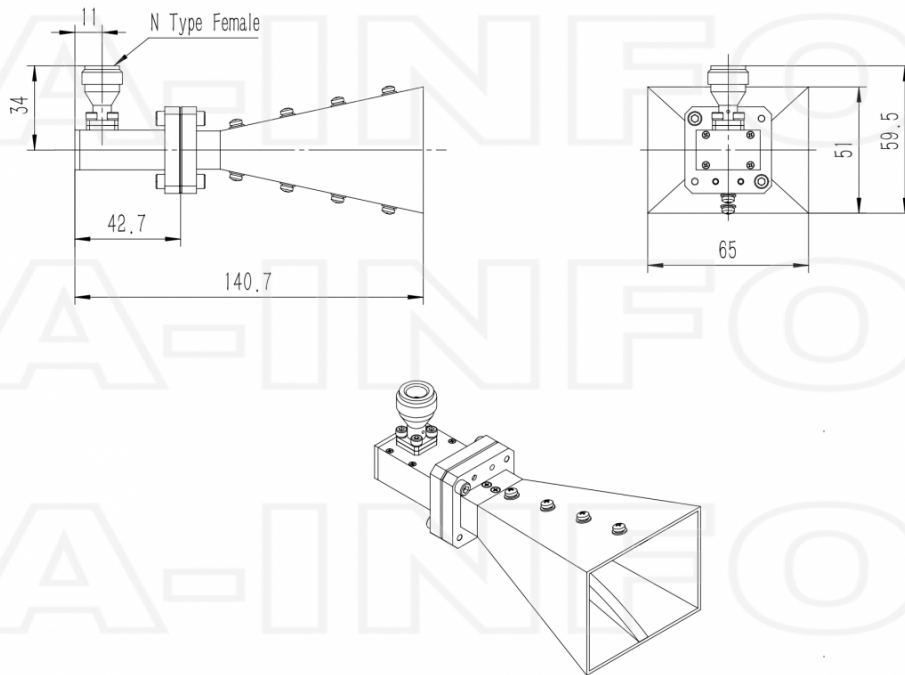
Electrical Specification		Interface	
Frequency, Min (GHz)	5.8	Output Type	Coaxial
Frequency, Max (GHz)	16	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD580	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	18	Finish	Passivation and Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	58	Size, W (mm)	65
3dB Beamwidth, H-Plane, Min (Deg.)	21	Size, H (mm)	59.5
3dB Beamwidth, H-Plane, Max (Deg.)	58	Size, L (mm)	140.7
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.25
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
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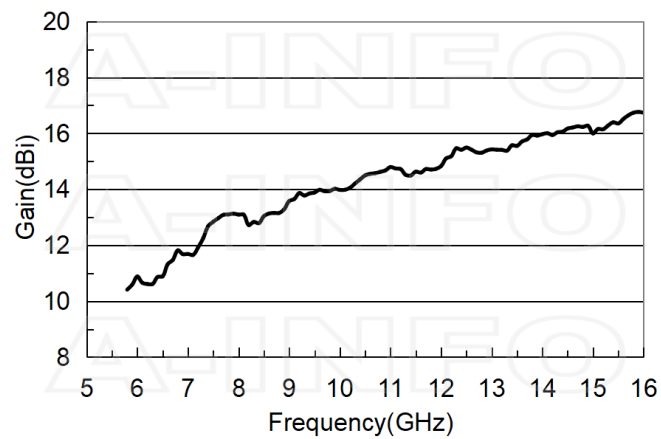
## Outline Drawing

N-Female Output (P/N: LB-58160-10-C-NF)

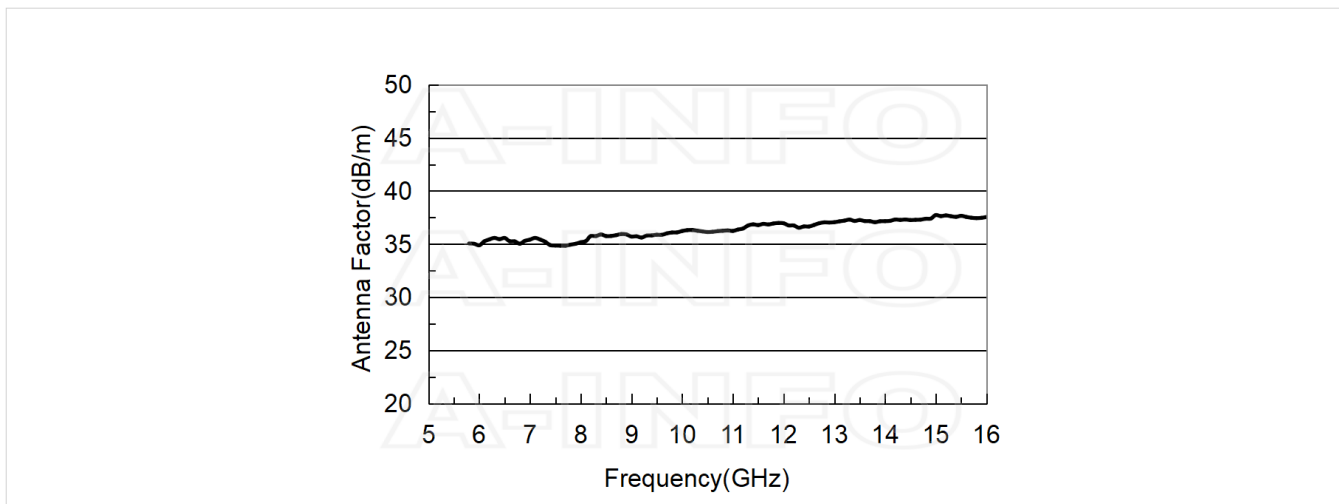


## Typical Test Results

Gain



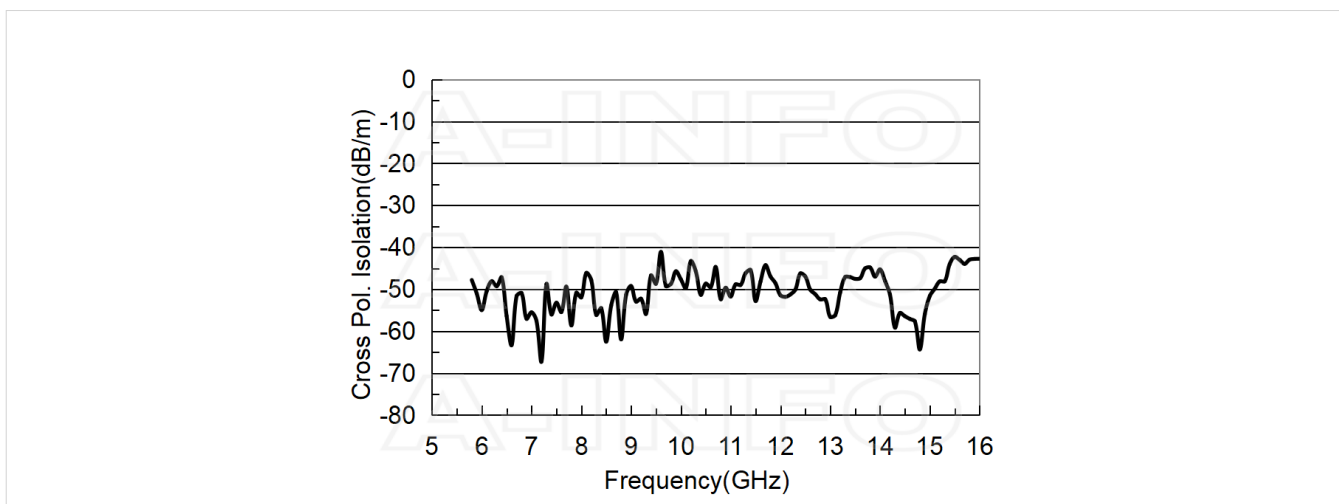
## Antenna Factor



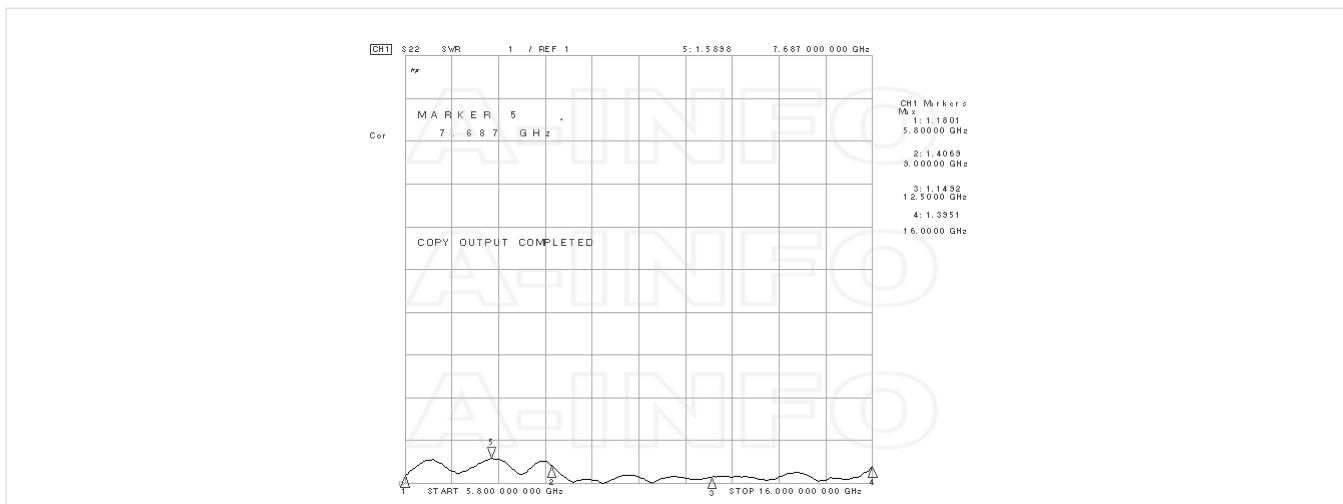
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
5.8	10.41	35.07
6.0	10.88	34.89
7.0	11.69	35.43
8.0	13.10	35.18
9.0	13.58	35.72
10.0	13.98	36.23
11.0	14.79	36.24
12.0	14.83	36.96
13.0	15.43	37.06
14.0	15.97	37.16
15.0	16.00	37.73
16.0	16.74	37.55

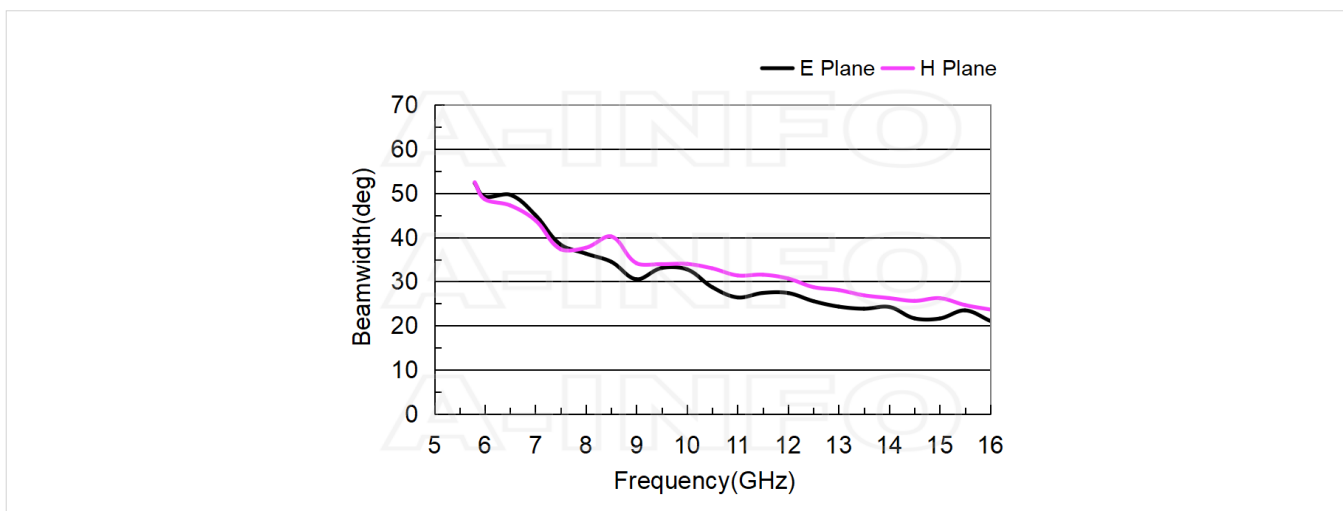
## Cross Polarization Isolation



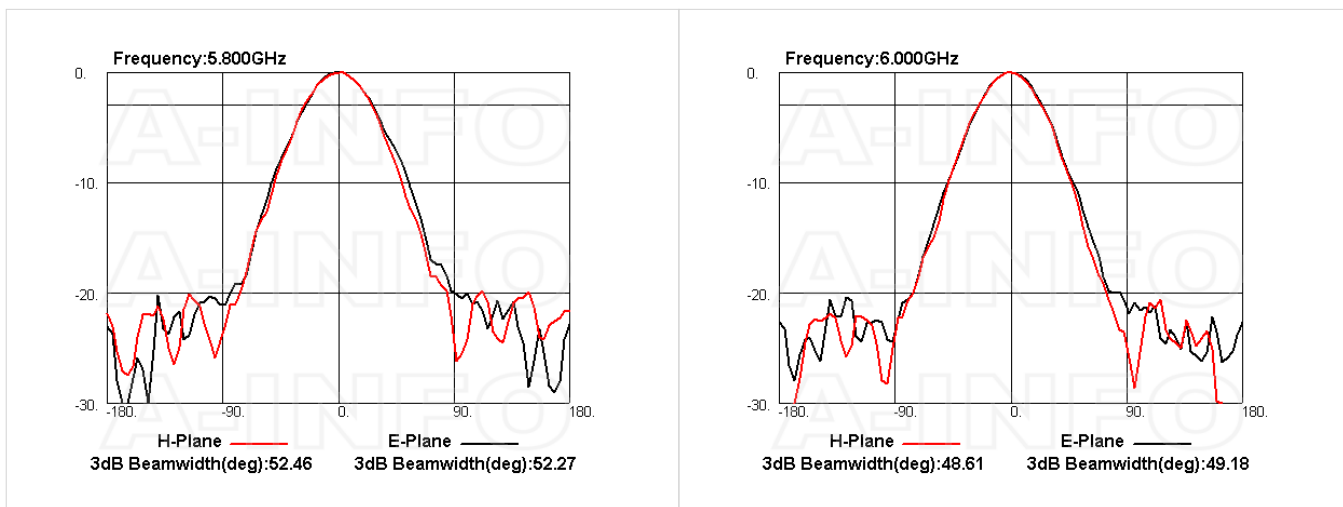
## VSWR

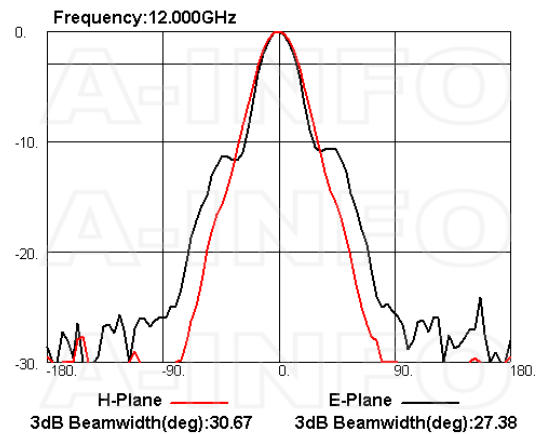
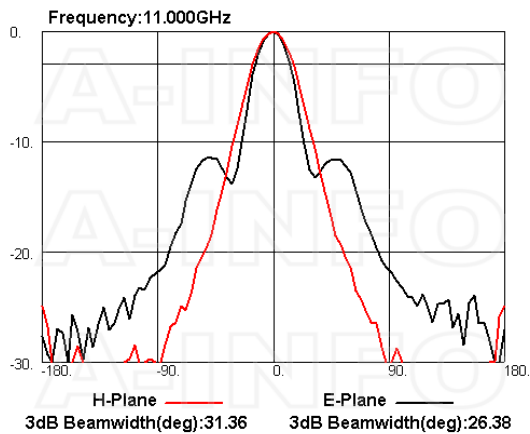
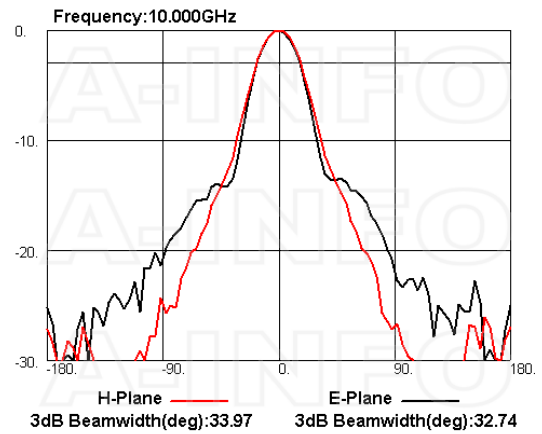
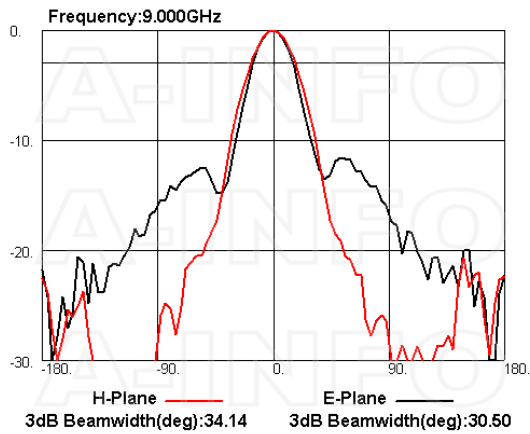
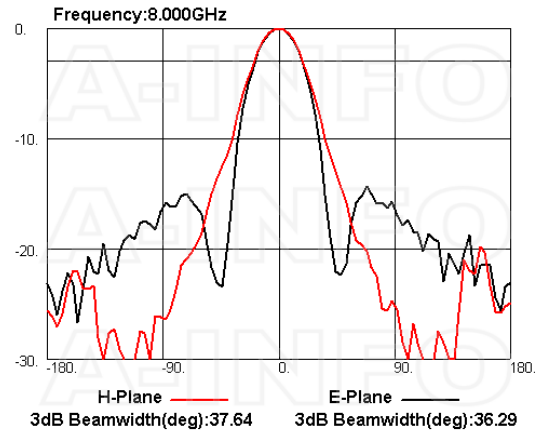
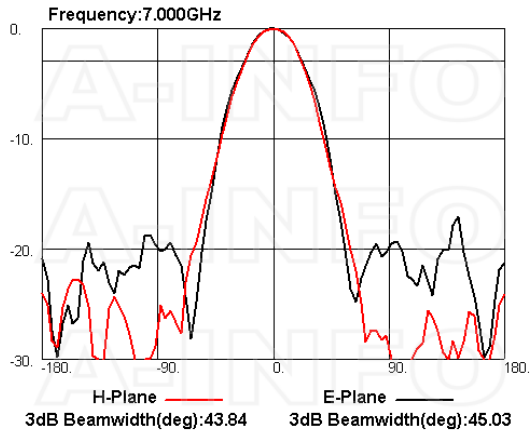


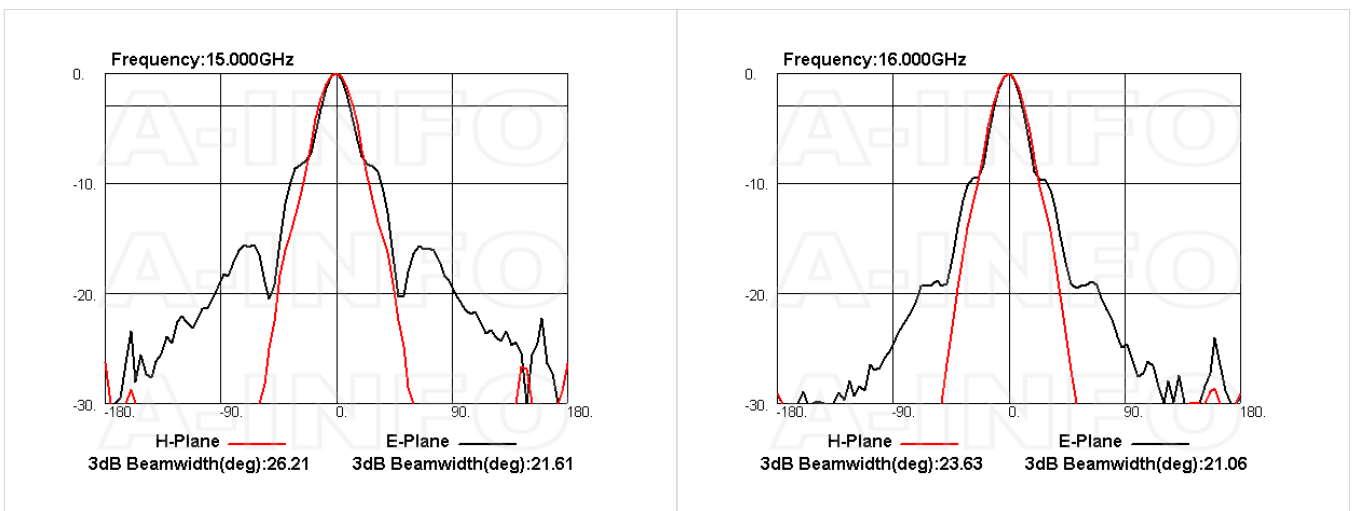
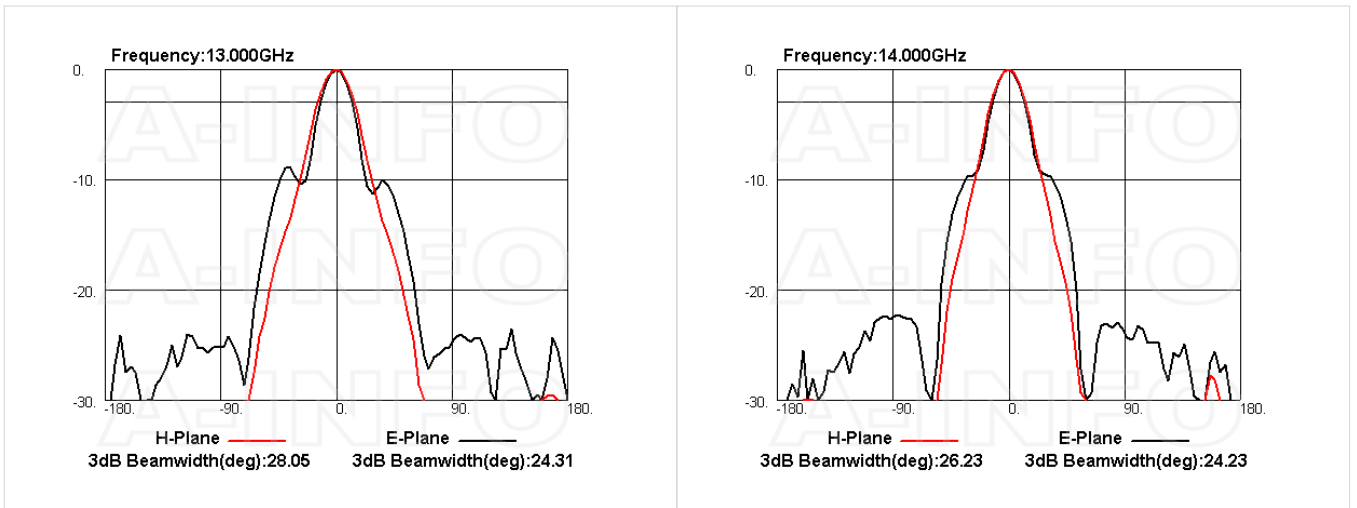
## Beamwidth



## Pattern







## Related Products



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

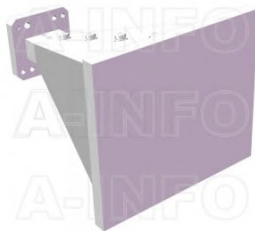


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

## Similar Products



LB-58160-10-A Multi Octave Horn Antenna 5.8-16GHz 10dB Gain Double Ridge Waveguide Interface



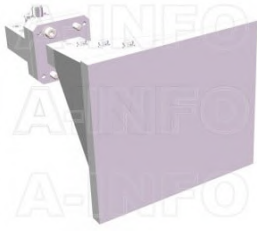
LB-58160-10-ASPO Multi Octave Horn Antenna 5.8-16GHz 10dB Gain Double Ridge Waveguide Interface



LB-58160-10-C-NFSP0 Multi Octave Horn Antenna 5.8-16GHz 10dB Gain N Type Female



LB-58160-10-C-SF Multi Octave Horn Antenna 5.8-16GHz 10dB Gain SMA Female



LB-58160-10-C-SFSPO Multi Octave Horn Antenna 5.8-16GHz 10dB Gain SMA Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b>                      Product Link:  <a href="https://www.ainfoinc.com/lb-58160-10-c-nf-multi-octave-horn-antenna-5-8-16-ghz-10db-gain-n-type-female">https://www.ainfoinc.com/lb-58160-10-c-nf-multi-octave-horn-antenna-5-8-16-ghz-10db-gain-n-type-female</a>                      Data subject to change without notice.                      © A-INFO INC. 2024. All Rights Reserved</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Contact Us</b>                      Address:                      60 Tesla, Irvine, CA 92618, USA                       Website:  <a href="http://www.ainfoinc.com">www.ainfoinc.com</a>                       Email:  <a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Phone &amp; Fax</b>                      Phone:                      +1-949-639-9688                      +1-949-639-9608                       Fax:                      +1-949-639-9670</li> </ul>
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