

LB-58160-15-C-ENF Multi Octave Horn Antenna 5.8-16GHz 15dB Gain  
Endlaunch N Type Female



Multi Octave Horn Antenna Operating From 5.8GHz to 16GHz With a Nominal 15dB Gain With Endlaunch N Type Female Connector

### Product Information

SKU	LB-58160-15-C-ENF
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### Description

Multi octave horn antenna LB-58160-15-C-ENF, operating from 5.8 to 16GHz with a nominal 15dB gain and low VSWR 1.5:1 with Endlaunch N Type Female output connector. The model LB-58160-15-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

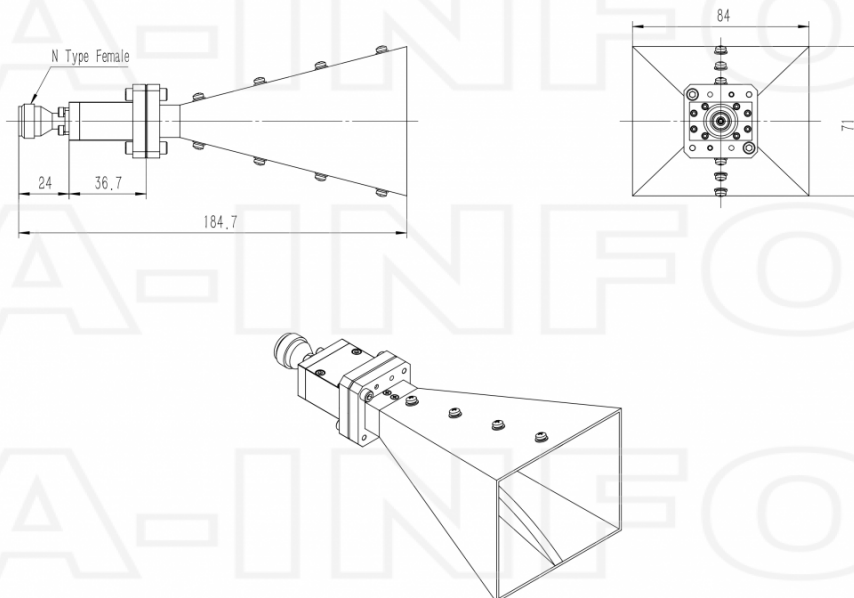
Electrical Specification		Interface	
Frequency, Min (GHz)	5.8	Output Type	Coaxial
Frequency, Max (GHz)	16	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD580	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	17	Finish	Passivation and Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	39	Size, W (mm)	84
3dB Beamwidth, H-Plane, Min (Deg.)	17	Size, H (mm)	71
3dB Beamwidth, H-Plane, Max (Deg.)	47	Size, L (mm)	184.7
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.3
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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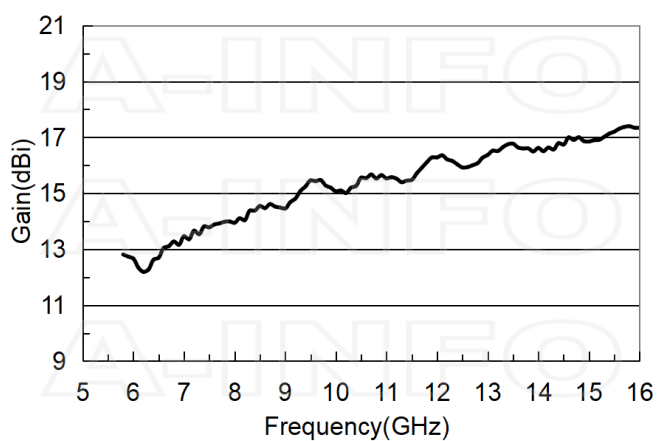
## Outline Drawing

Endlaunch N-Female Output (P/N: LB-58160-15-C-ENF)

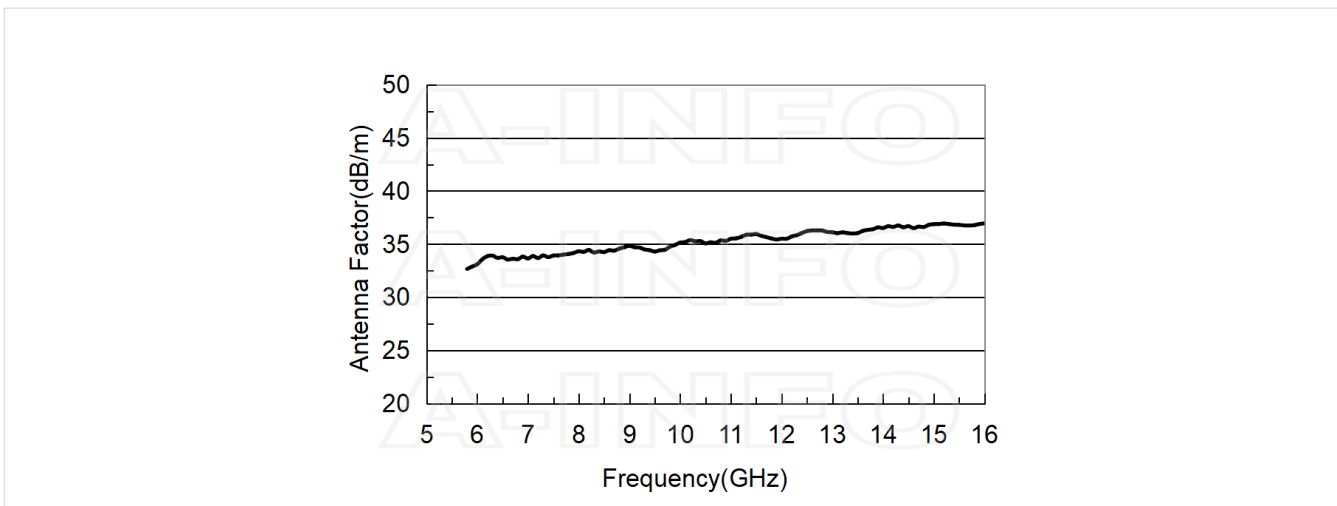


## Typical Test Results

Gain



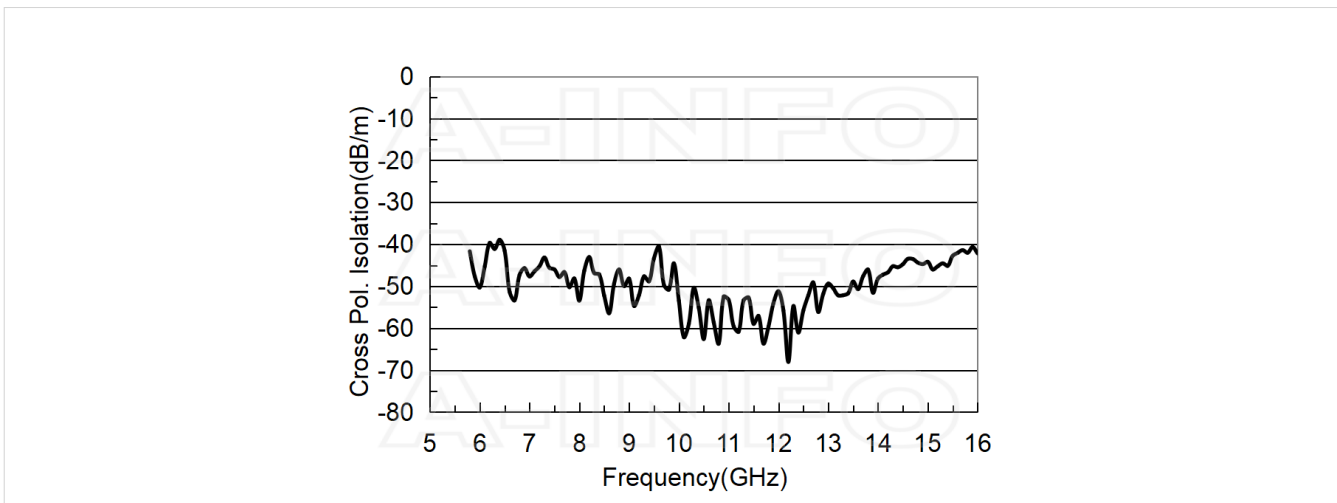
### Antenna Factor



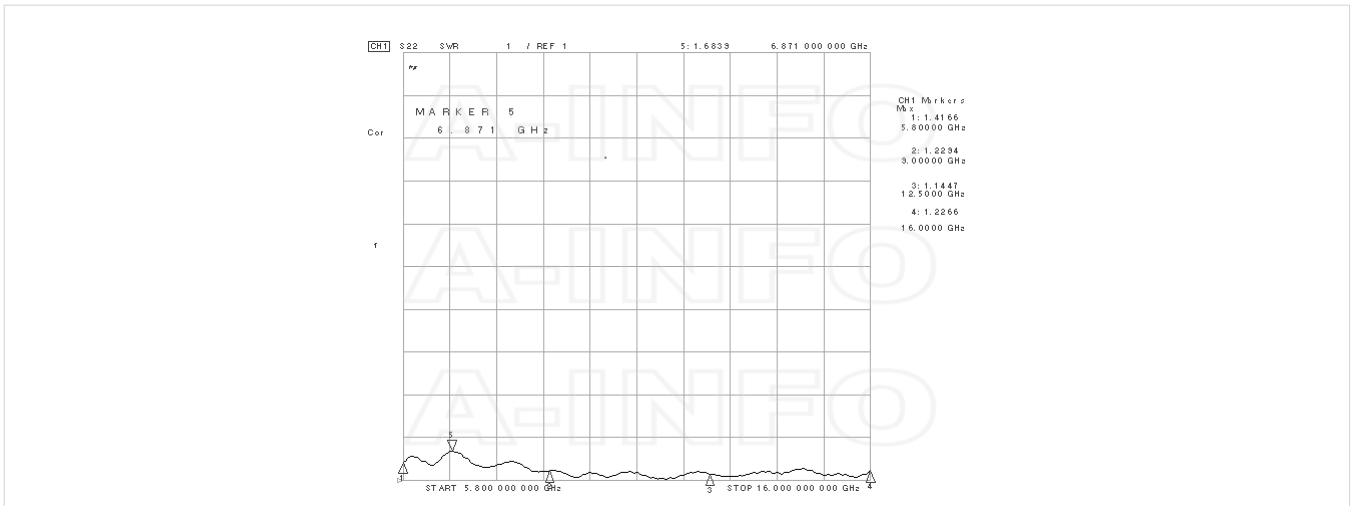
### Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
5.8	12.81	32.67
6.0	12.66	33.11
7.0	13.46	33.65
8.0	13.94	34.33
9.0	14.46	34.84
10.0	15.07	35.14
11.0	15.53	35.51
12.0	16.28	35.51
13.0	16.37	36.12
14.0	16.62	36.51
15.0	16.85	36.88
16.0	17.34	36.95

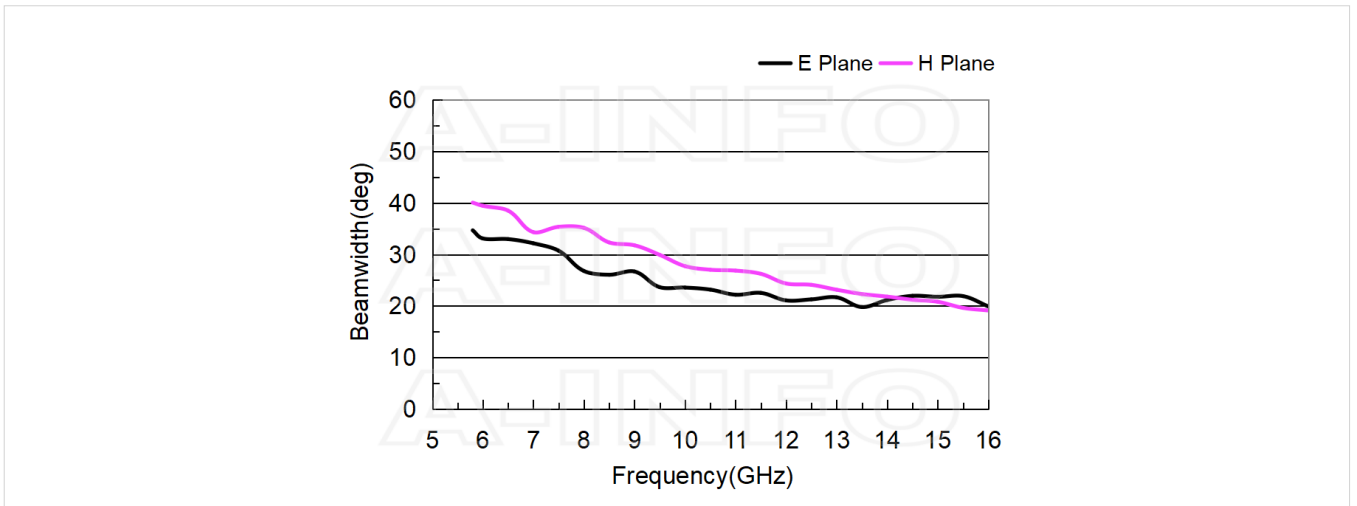
### Cross Polarization Isolation



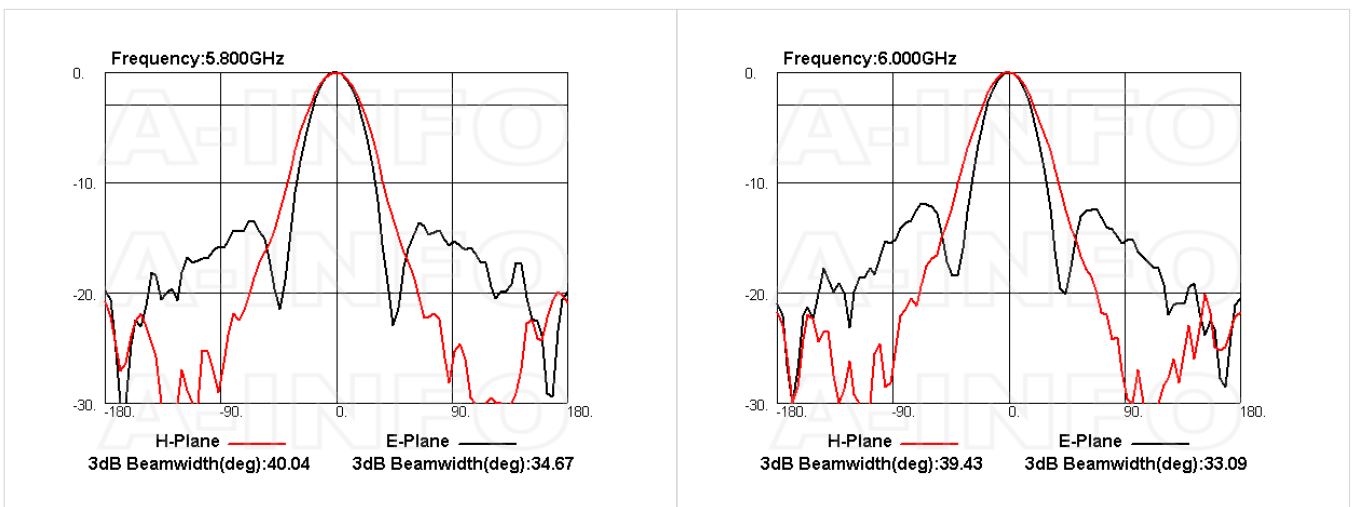
## VSWR

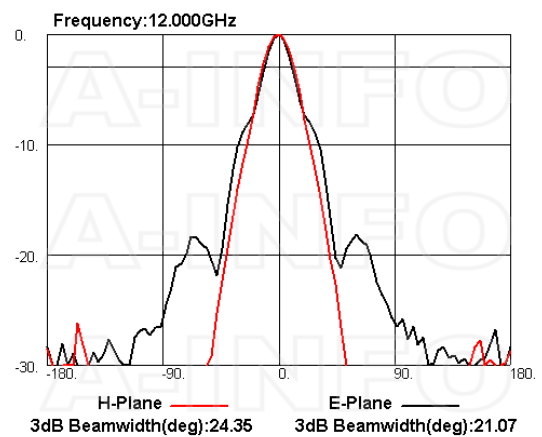
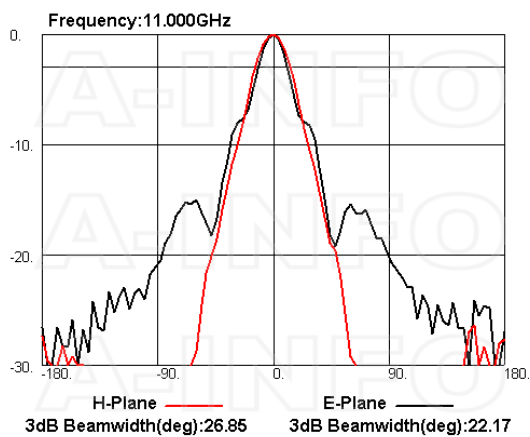
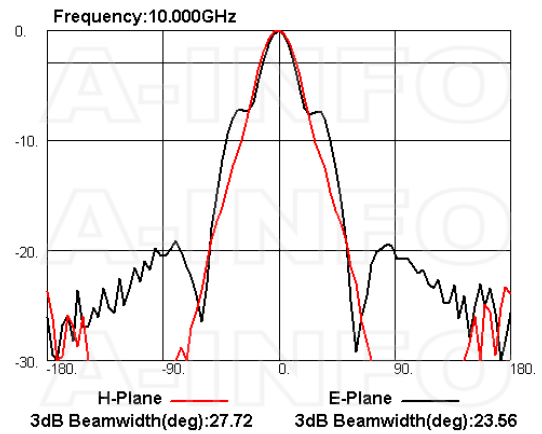
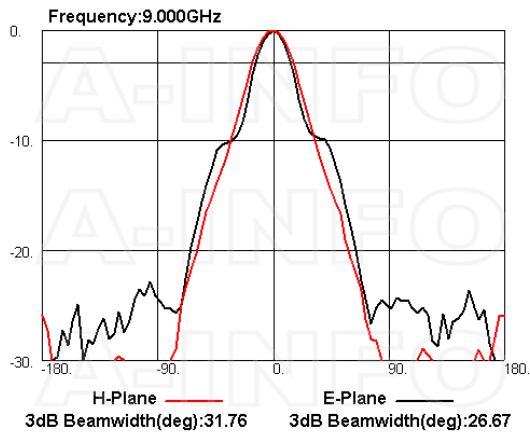
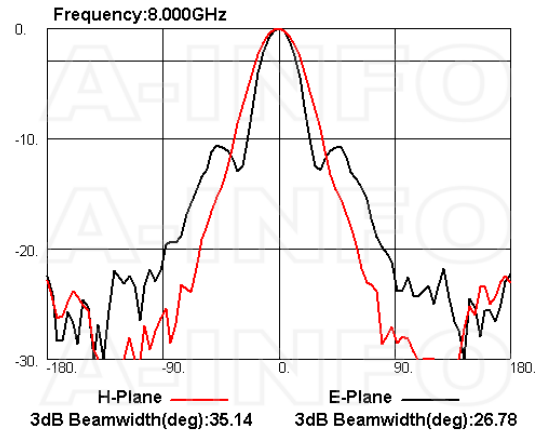
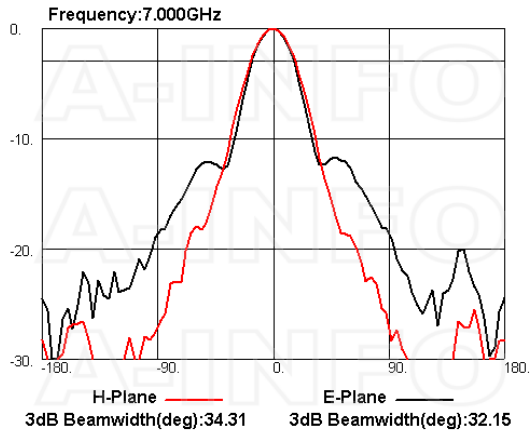


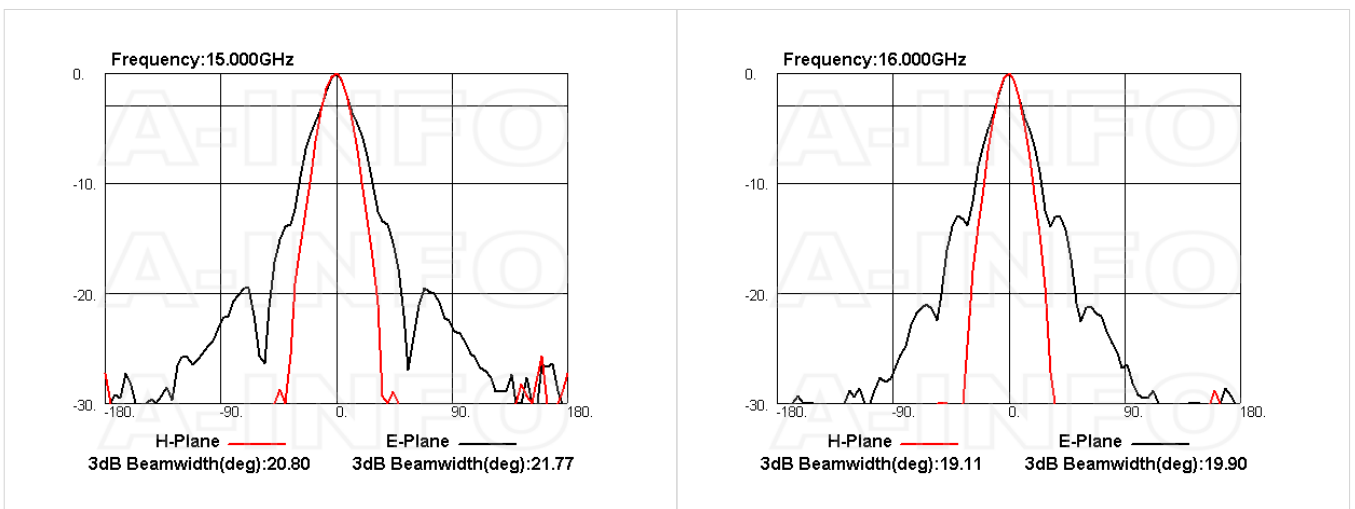
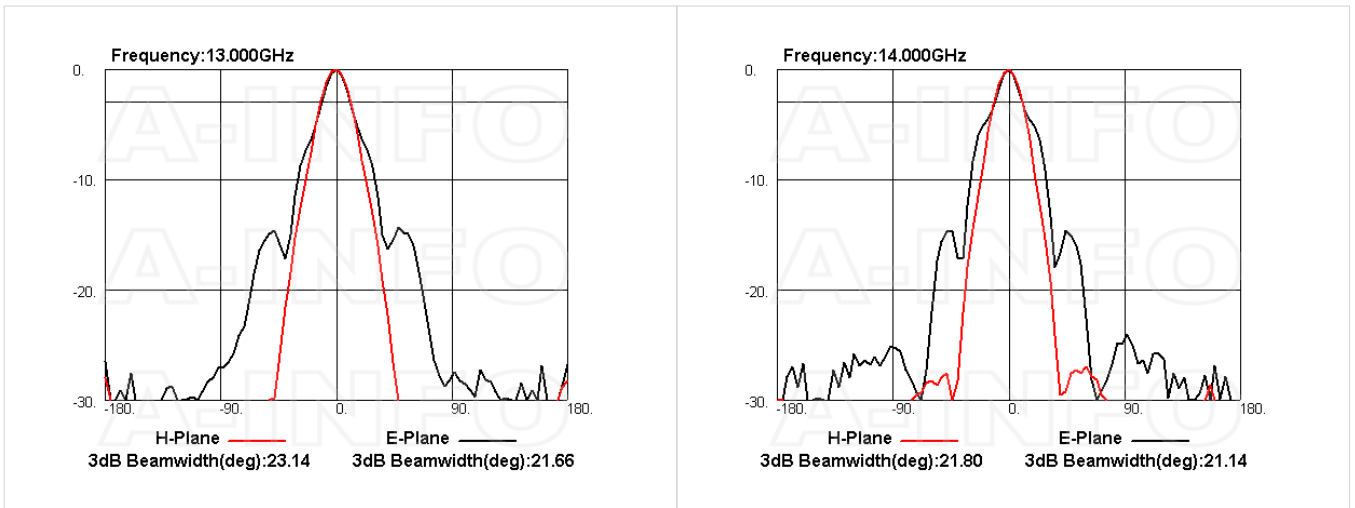
## Beamwidth



## 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

## About this Datasheet

<p>● <b>Product Information</b>                  Product Link:  <a href="https://www.ainfoinc.com/lb-58160-15-c-enf-multi-octave-horn-antenna-5-8-16-ghz-15db-gain-endlaunch-n-type-female">https://www.ainfoinc.com/lb-58160-15-c-enf-multi-octave-horn-antenna-5-8-16-ghz-15db-gain-endlaunch-n-type-female</a>                  Data subject to change without notice.                  © A-INFO INC. 2024. All Rights Reserved</p>	<p>● <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></p>	<p>● <b>Phone &amp; Fax</b>                  Phone:                  +1-949-639-9688                  +1-949-639-9608                   Fax:                  +1-949-639-9670</p>
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