

LB-58160-15-C-ESF Multi Octave Horn Antenna 5.8-16GHz 15dB Gain
Endlaunch SMA Female



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

Product Information

SKU	LB-58160-15-C-ESF
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Description

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

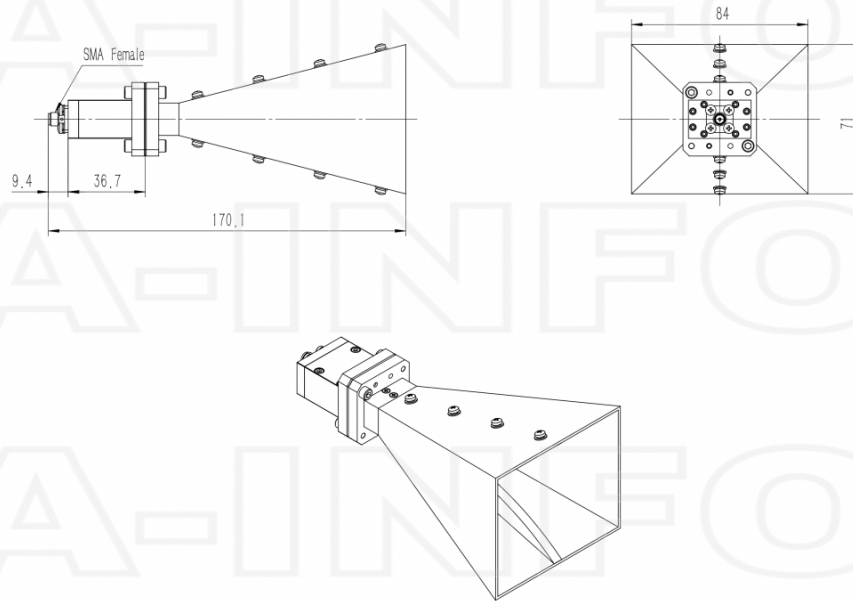
Electrical Specification		Interface	
Frequency, Min (GHz)	5.8	Output Type	Coaxial
Frequency, Max (GHz)	16	Connector	SMA
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD580	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB 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)	170.1
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.29
VSWR, Typ	1.5:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	1000		

Additional Information

Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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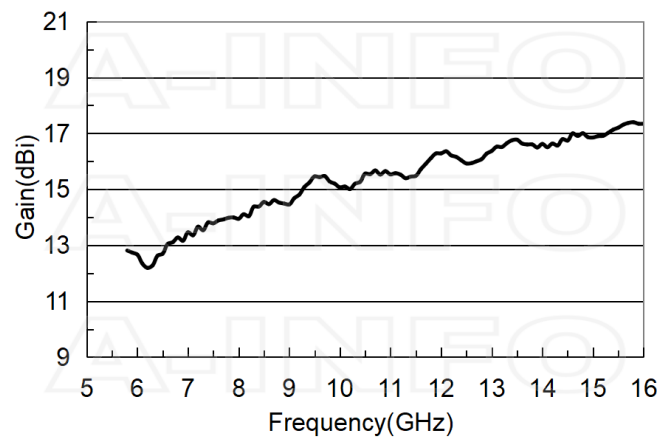
Outline Drawing

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

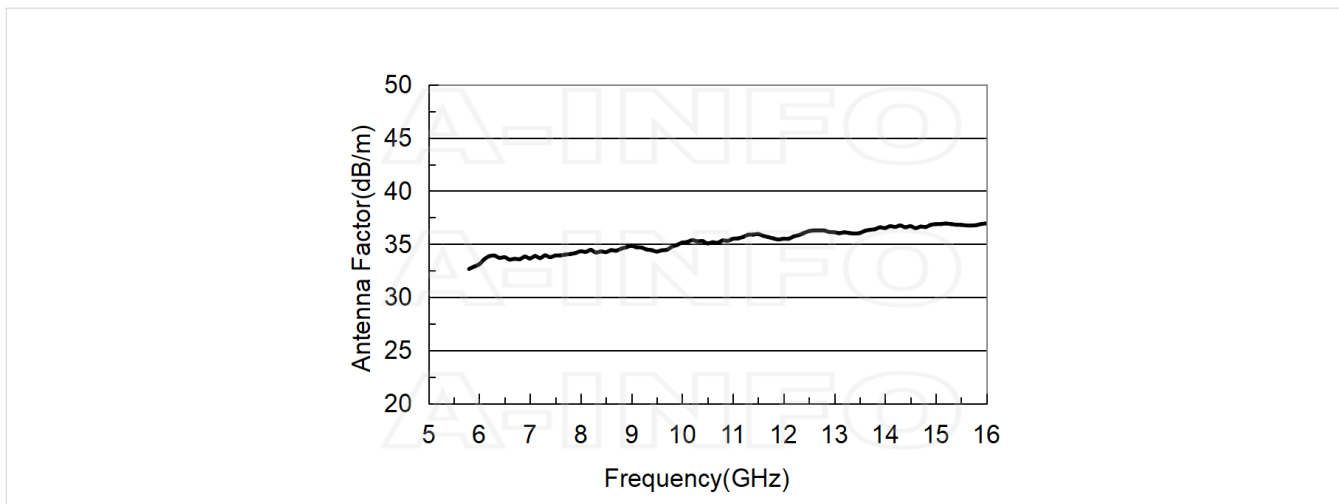


Typical Test Results

Gain



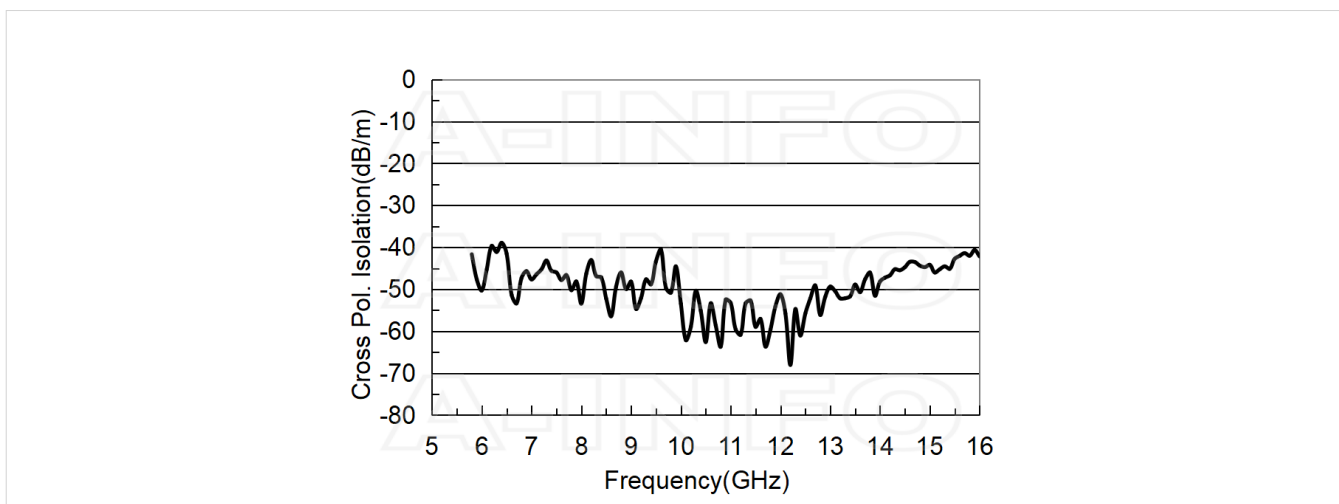
Antenna Factor



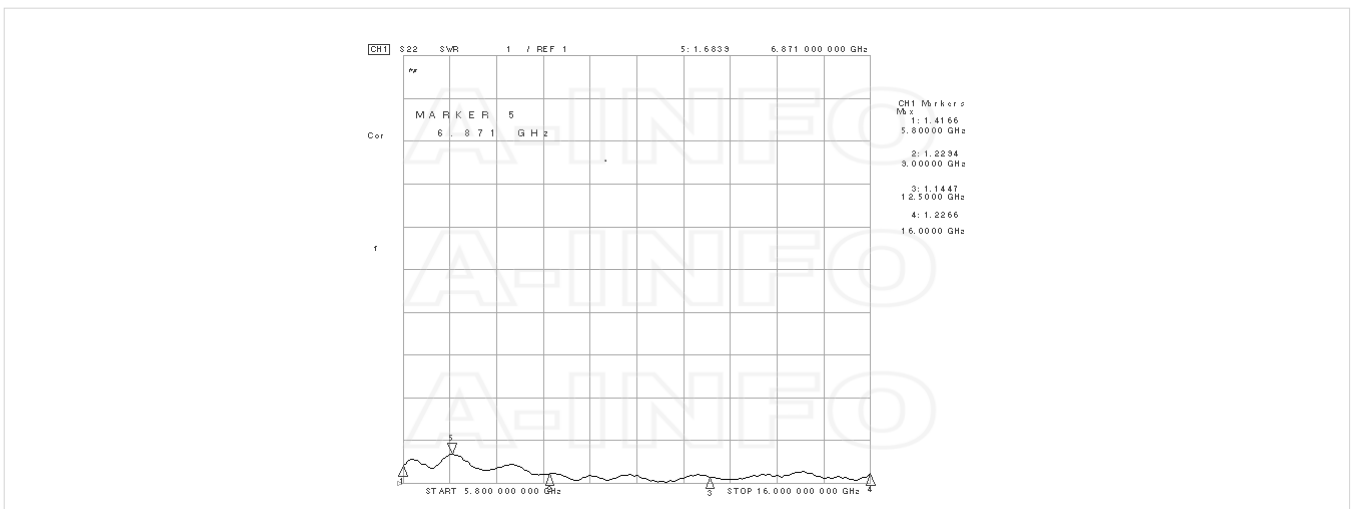
Antenna Factor (Table)

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

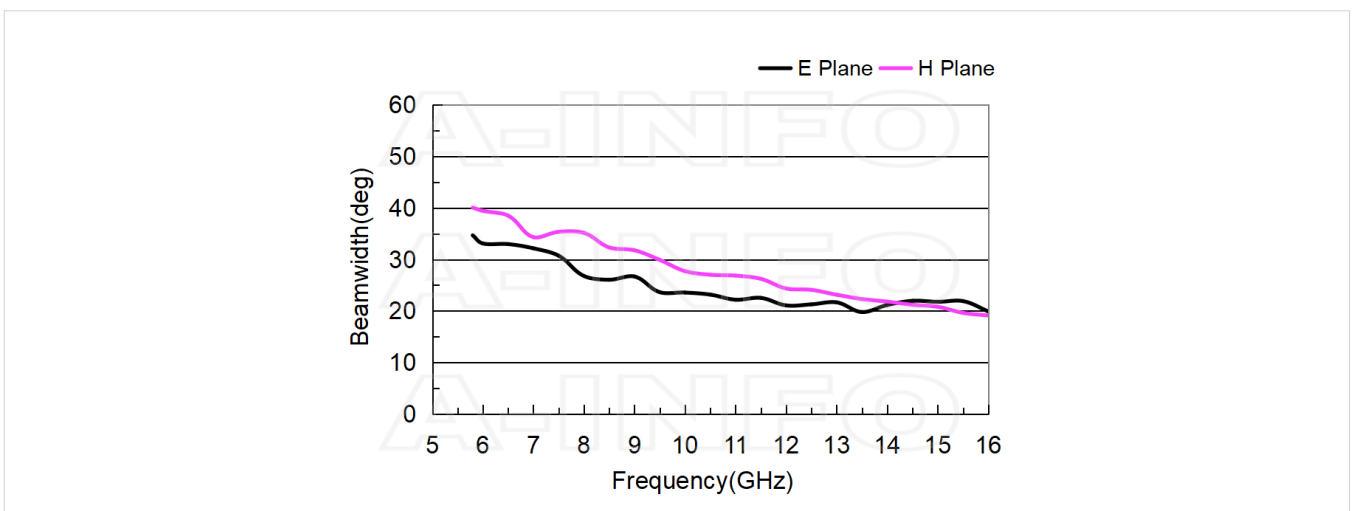
Cross Polarization Isolation



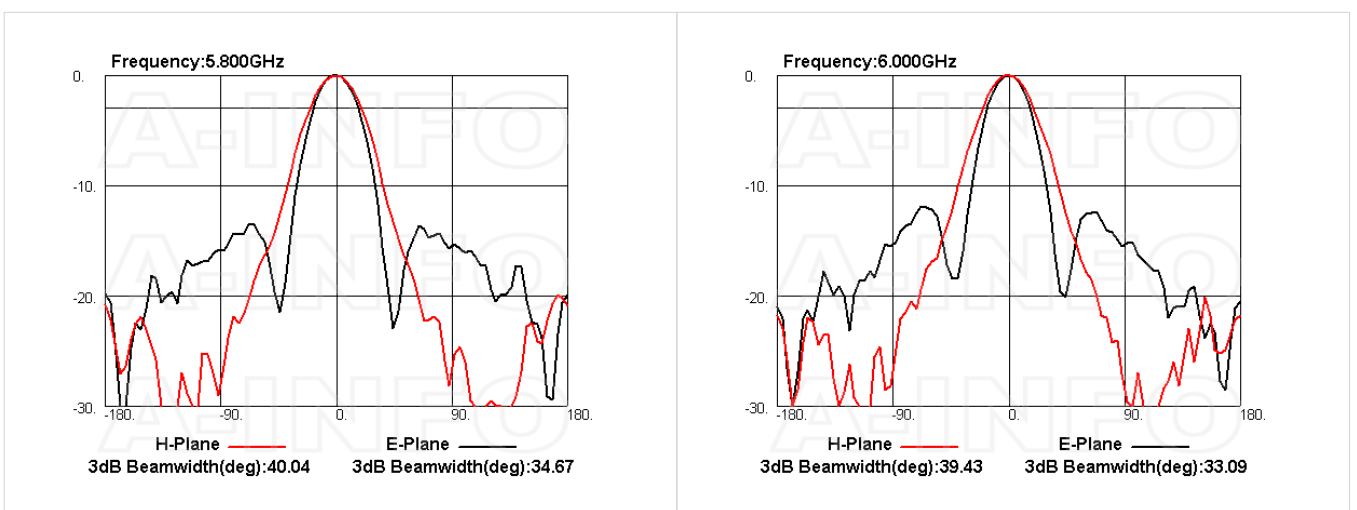
VSWR

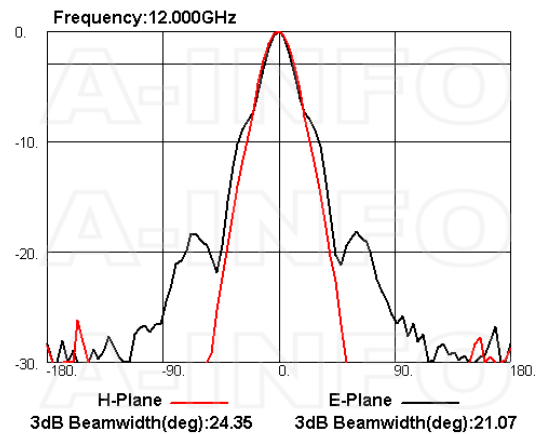
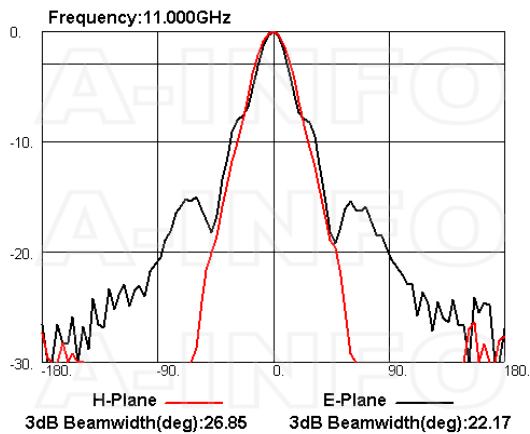
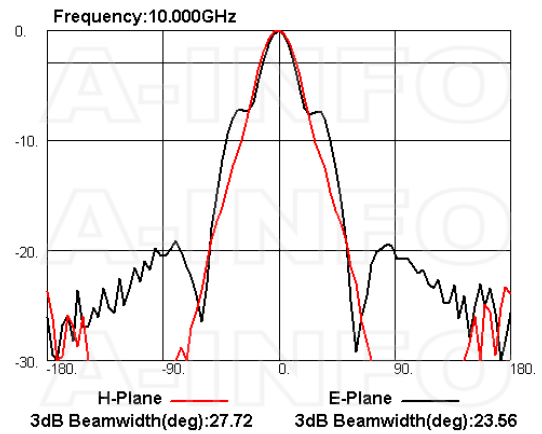
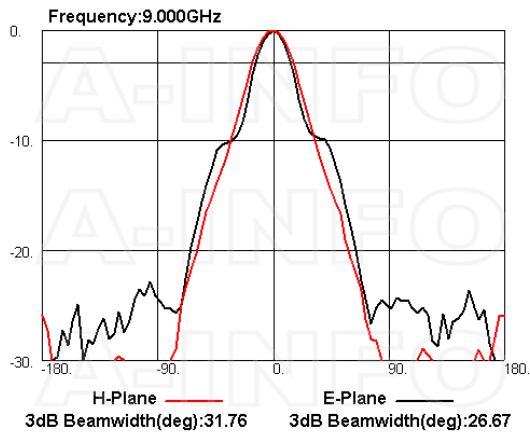
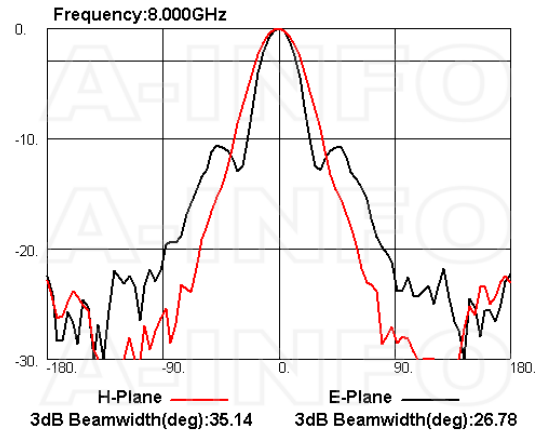
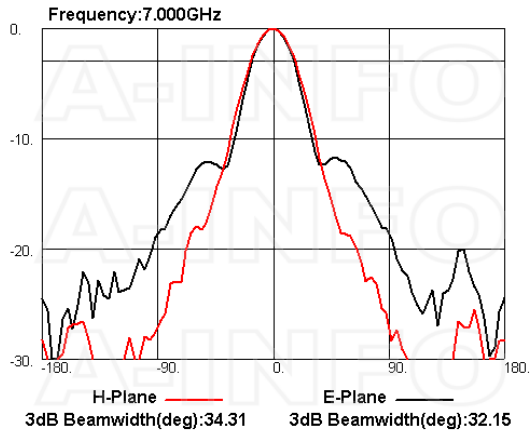


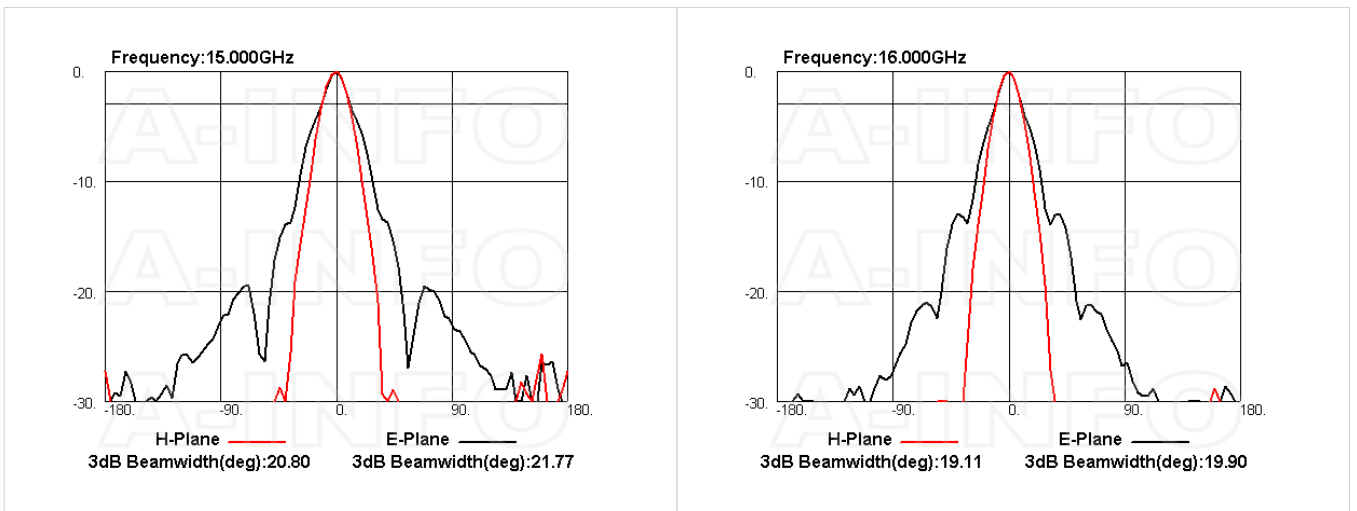
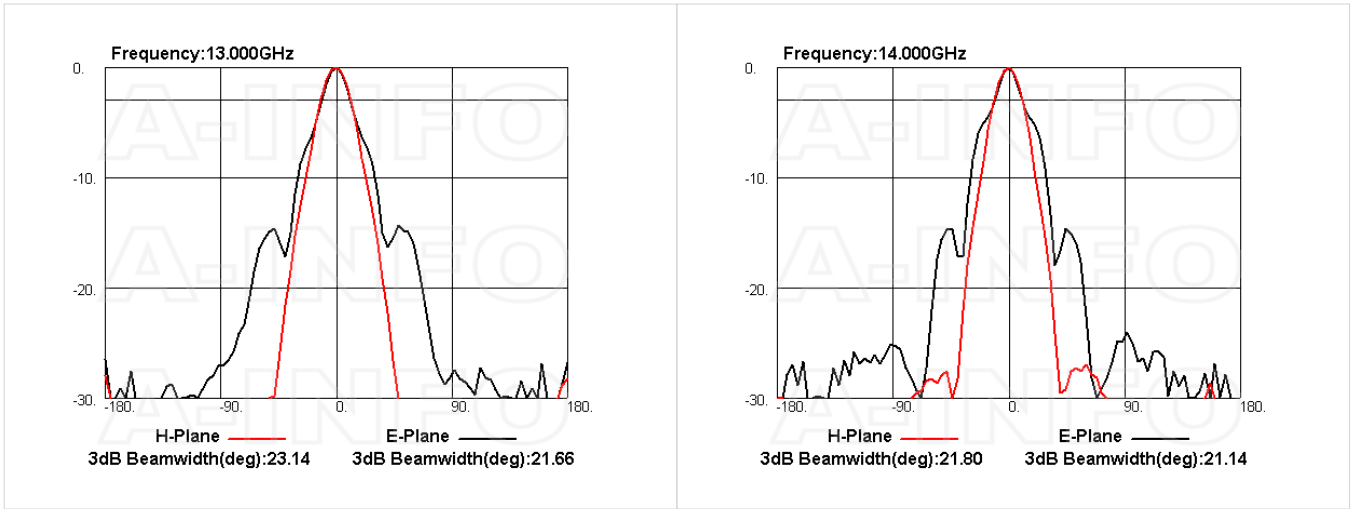
Beamwidth



Pattern







Related Products



SM-SM-A050-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



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



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About this Datasheet

<ul style="list-style-type: none"> ● Product Information Product Link: https://www.ainfoinc.com/lb-58160-15-c-esf-multi-octave-horn-antenna-5-8-16-ghz-15db-gain-endlaunch-sma-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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