



LB-58160-20-A Multi Octave Horn Antenna 5.8-16GHz 20dB Gain Double Ridge Waveguide Interface

Multi Octave Horn Antenna From 5.8GHz to 16GHz With a Nominal 20dB Gain With Double Ridge Waveguide Interface

Product Information

SKU	LB-58160-20-A
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Description

Multi octave horn antenna LB-58160-20-A, operating from 5.8 to 16GHz with a nominal 20dB gain and low VSWR 1.5:1 with FPWRD580D28 output. The model LB-58160-20-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. 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

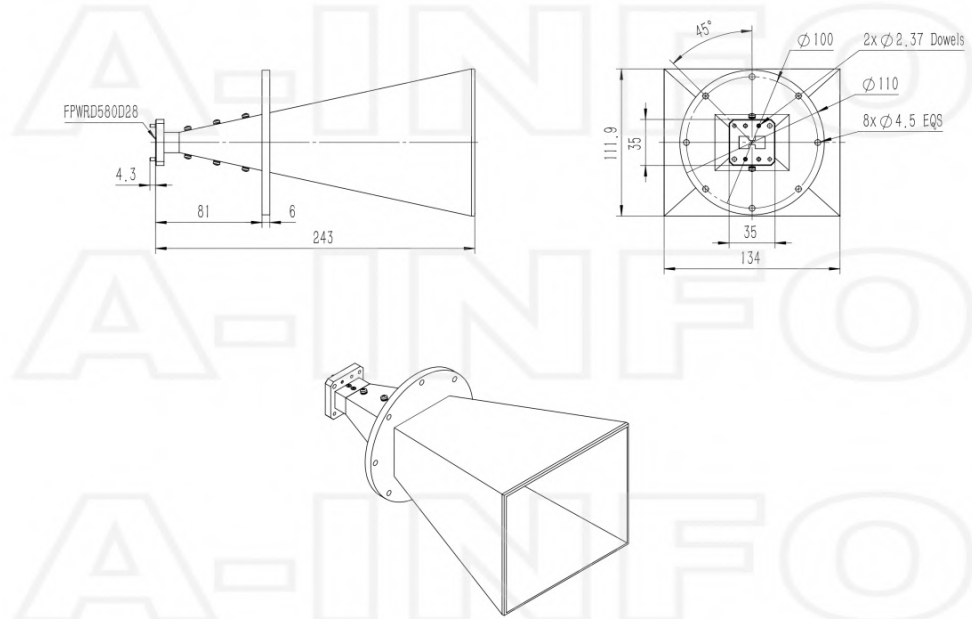
Electrical Specification		Interface	
Frequency, Min (GHz)	5.8	Output Type	Waveguide
Frequency, Max (GHz)	16	Flange Designation, WRD	FPWRD580D28
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD580	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	7	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	26	Size, W (mm)	134
3dB Beamwidth, H-Plane, Min (Deg.)	8	Size, H (mm)	111.9
3dB Beamwidth, H-Plane, Max (Deg.)	29	Size, L (mm)	243
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.58
VSWR, Typ	1.5:1		

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

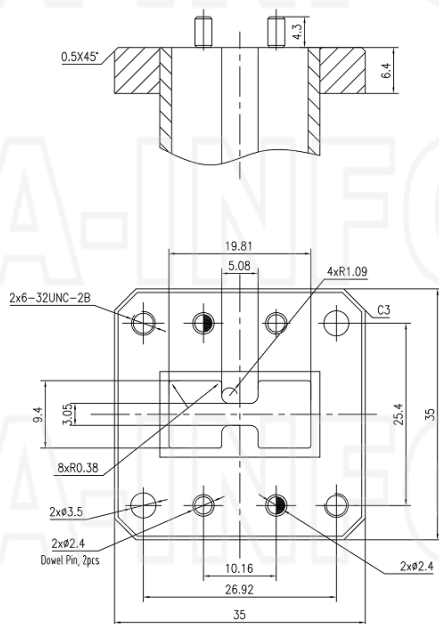
FPWRD580D28 Output (P/N: LB-58160-20-A)



Flange Drawing

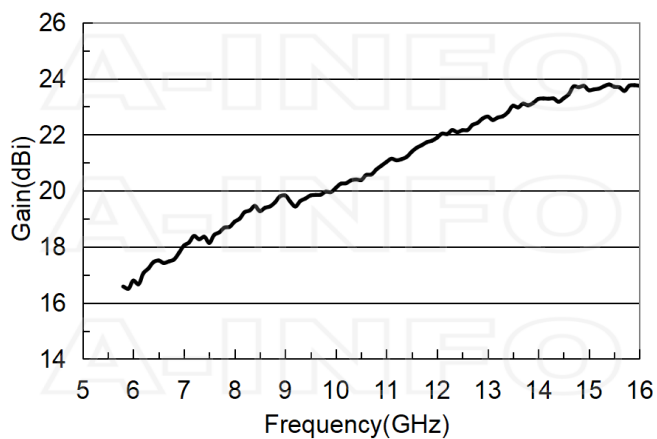
FPWRD580D28

(With two through mounting holes and two screws holes)

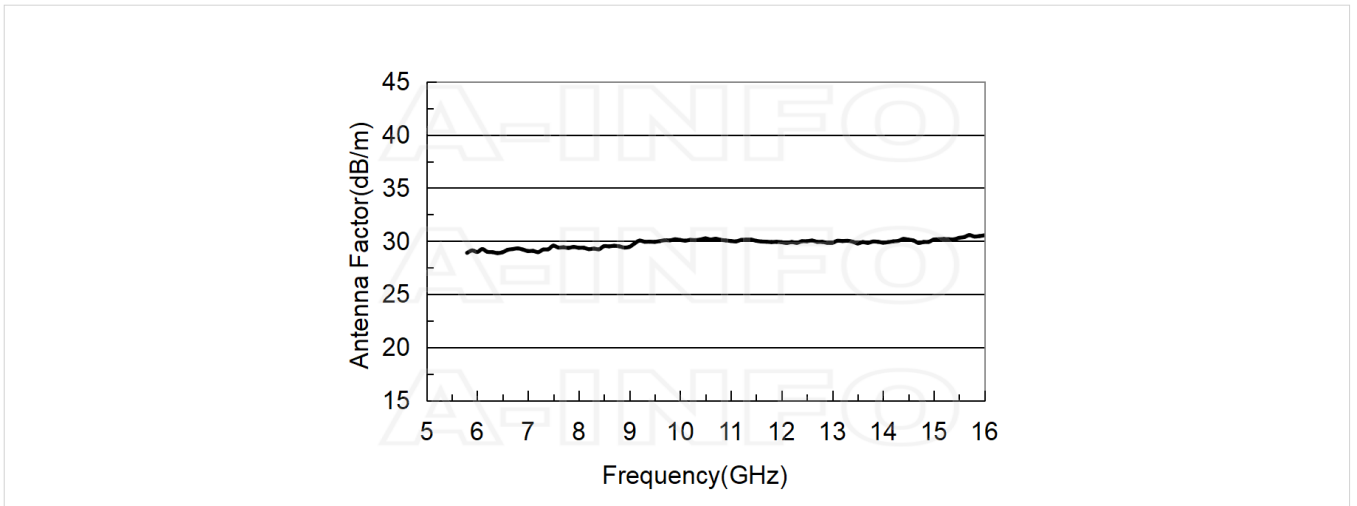


Typical Test Results

Gain



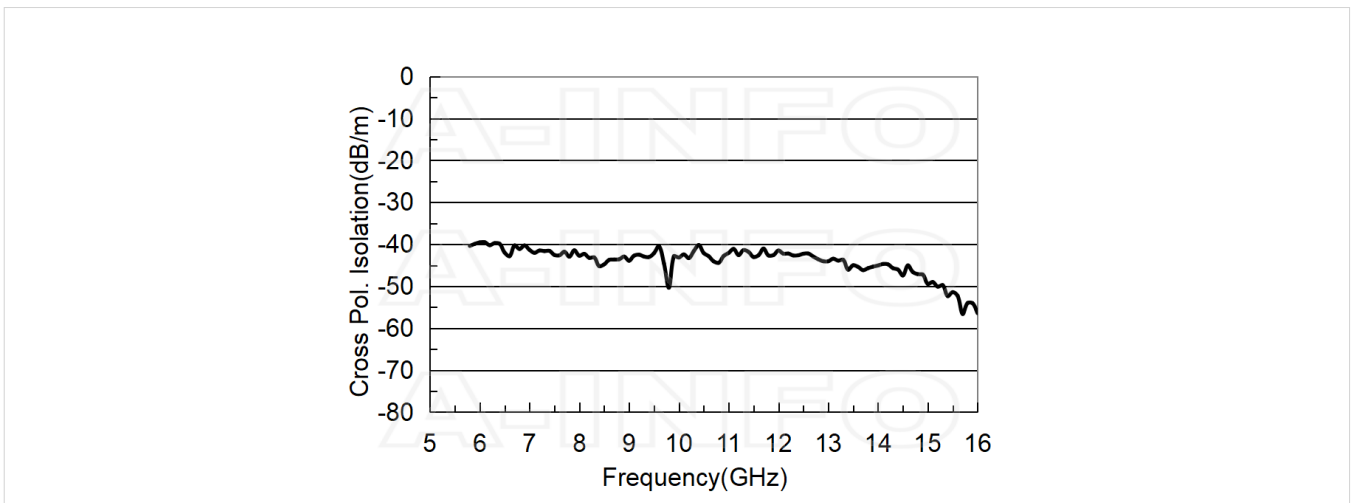
Antenna Factor



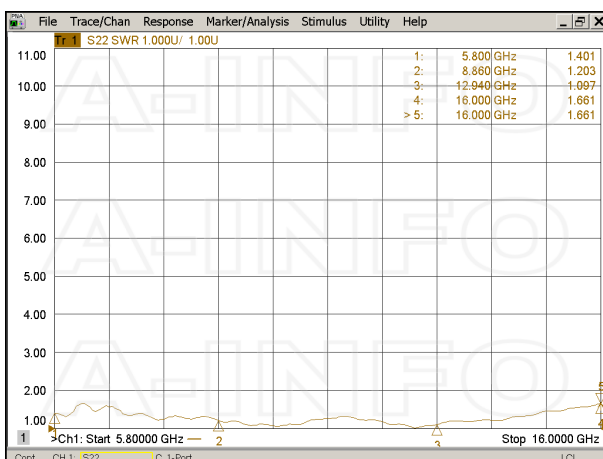
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
5.8	16.58	28.90
6.0	16.79	28.98
7.0	18.04	29.07
8.0	18.89	29.38
9.0	19.83	29.46
10.0	20.10	30.11
11.0	21.02	30.01
12.0	21.89	29.90
13.0	22.64	29.85
14.0	23.27	29.86
15.0	23.58	30.15
16.0	23.74	30.55

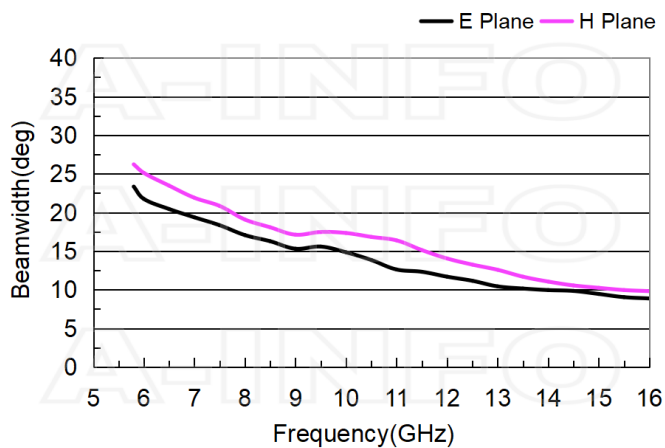
Cross Polarization Isolation



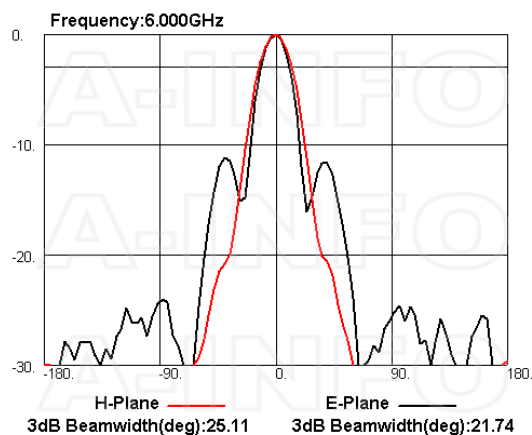
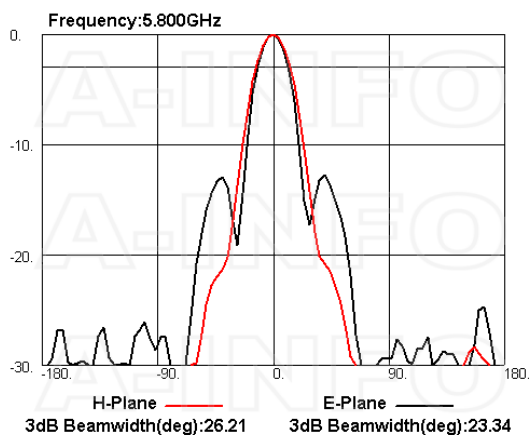
VSWR

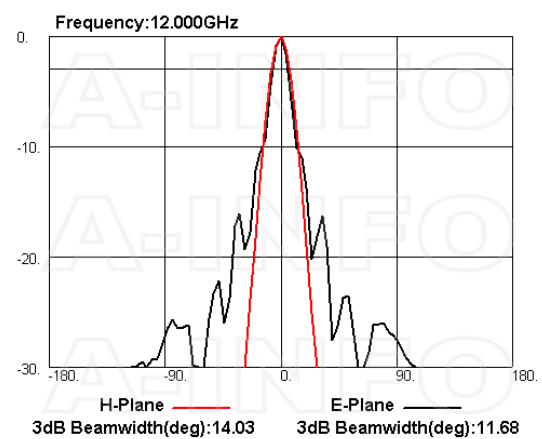
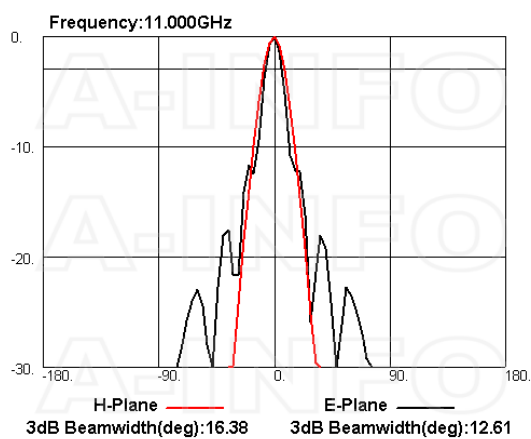
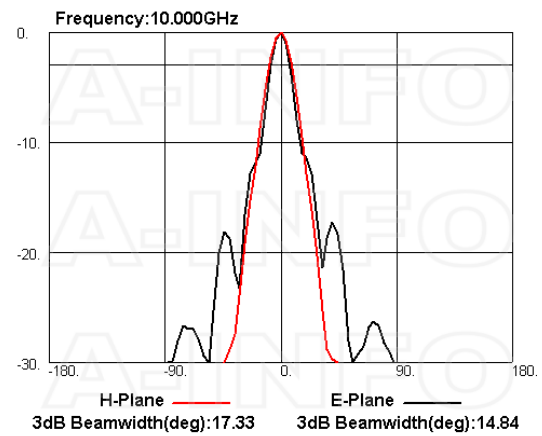
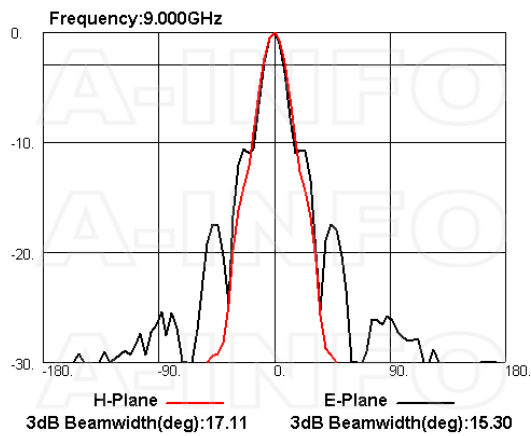
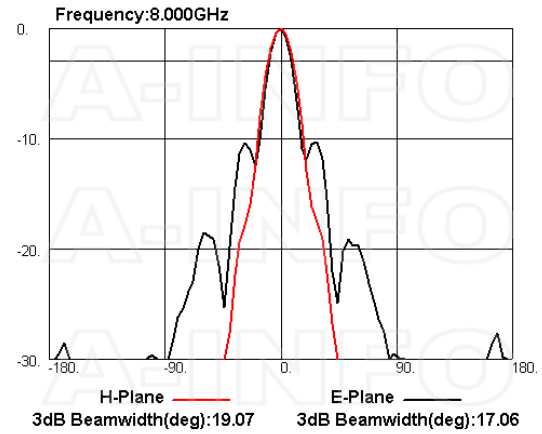
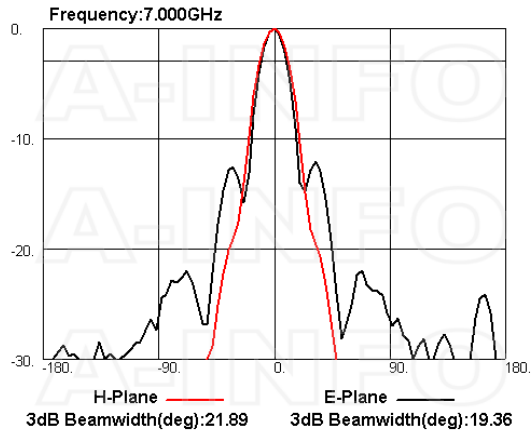


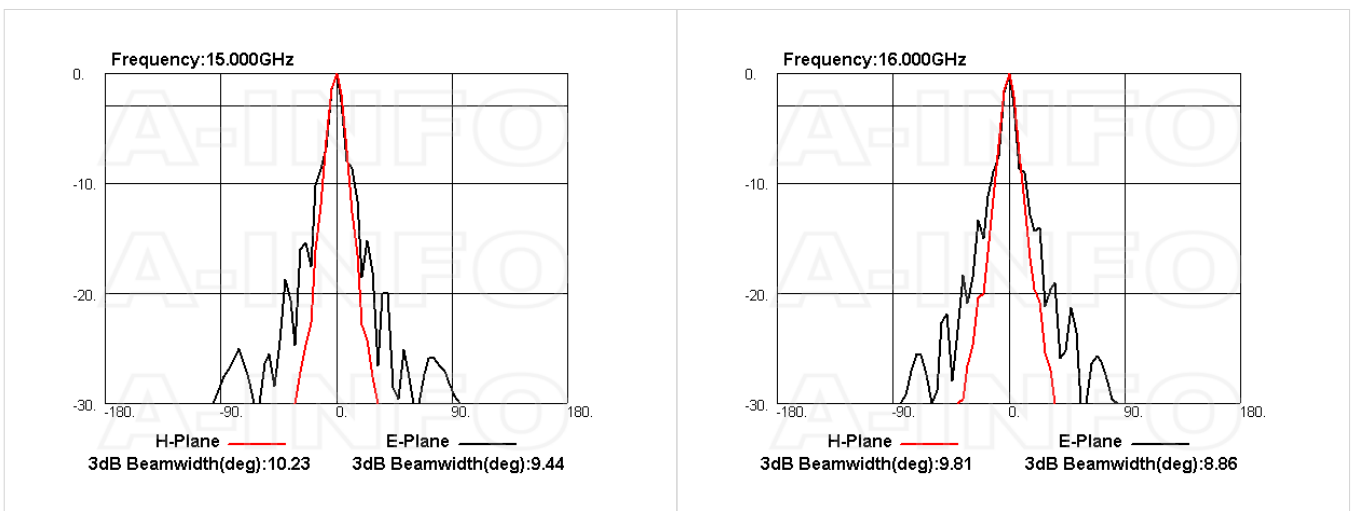
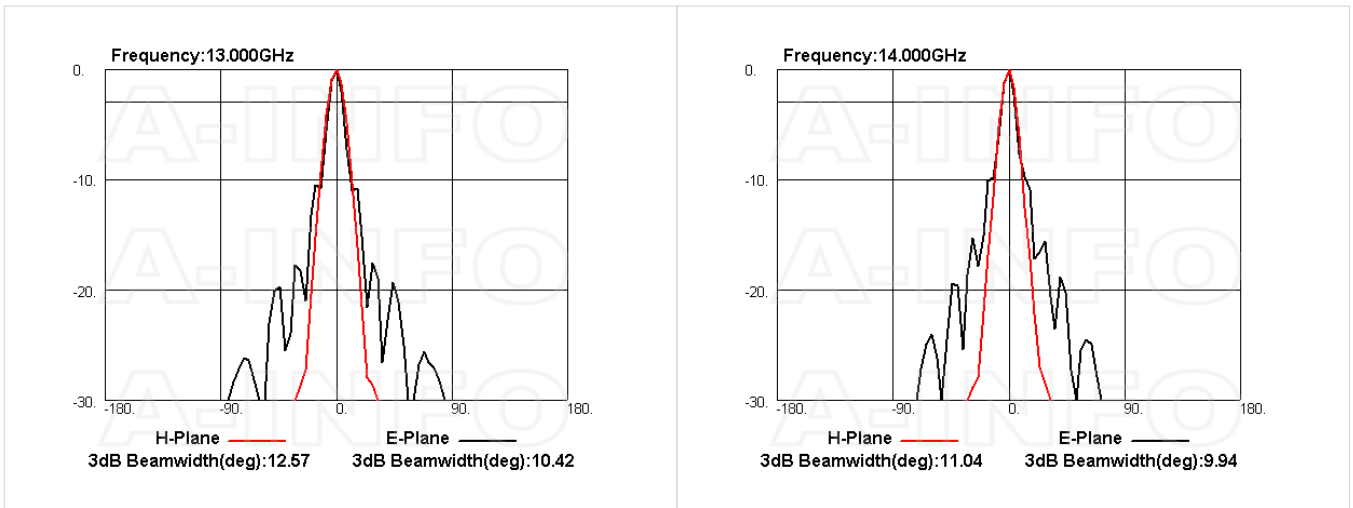
Beamwidth



Pattern







Related Products



580DRWCAN_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 5.8-16GHz WRD580 to N Type Female



580DRWCAS_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 5.8-16GHz WRD580 to SMA Female



580DRWECAN_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 5.8-16GHz WRD580 to N Type Female



580DRWECAS_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 5.8-16GHz WRD580 to SMA Female



580DRWHCAN_Cu Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 5.8-16GHz WRD580 to N Type Female



LB-51-25-MB2 Round Type Mounting Bracket



LB-51-25-L2 L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree

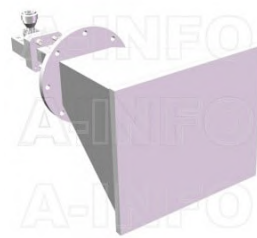
Similar Products



LB-58160-20-ASPO Multi Octave Horn Antenna 5.8-16GHz 20dB Gain Double Ridge Waveguide Interface



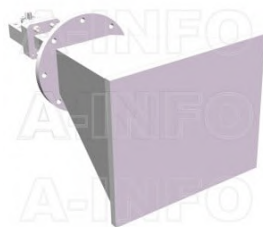
LB-58160-20-C-NF Multi Octave Horn Antenna 5.8-16GHz 20dB Gain N Type Female



LB-58160-20-C-NFSPO Multi Octave Horn Antenna 5.8-16GHz 20dB Gain N Type Female



LB-58160-20-C-SF Multi Octave Horn Antenna 5.8-16GHz 20dB Gain SMA Female



LB-58160-20-C-SFSPO Multi Octave Horn Antenna 5.8-16GHz 20dB Gain SMA Female

About this Datasheet

<ul style="list-style-type: none">● Product Information Product Link: https://www.ainfoinc.com/lb-58160-20-a-multi-octave-horn-antenna-5-8-16-ghz-20db-gain-fpwr580d28 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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