

LB-75180-20-ASPO Multi Octave Horn Antenna 7.5-18GHz 20dB Gain Double Ridge Waveguide Interface

Multi Octave Horn Antenna From 7.5GHz to 18GHz With a Nominal 20dB Gain With Double Ridge Waveguide Interface

Product Information

SKU	LB-75180-20-ASPO
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Description

Multi octave horn antenna LB-75180-20-ASPO, operating from 7.5 to 18GHz with a nominal 20dB gain and low VSWR 1.5:1 with FPWRD750D24 output. The model LB-75180-20-ASPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. 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

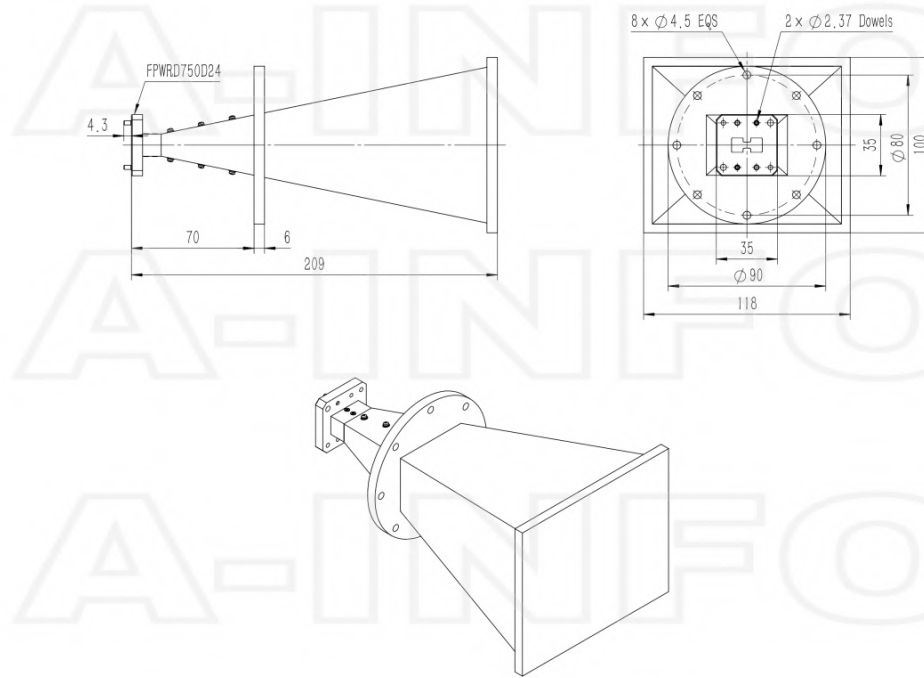
Electrical Specification		Interface	
Frequency, Min (GHz)	7.5	Output Type	Waveguide
Frequency, Max (GHz)	18	Flange Designation, WRD	FPWRD750D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD750	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	8	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	26	Size, W (mm)	118
3dB Beamwidth, H-Plane, Min (Deg.)	9	Size, H (mm)	100
3dB Beamwidth, H-Plane, Max (Deg.)	29	Size, L (mm)	209
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.45
VSWR, Typ	1.5:1		

Additional Information

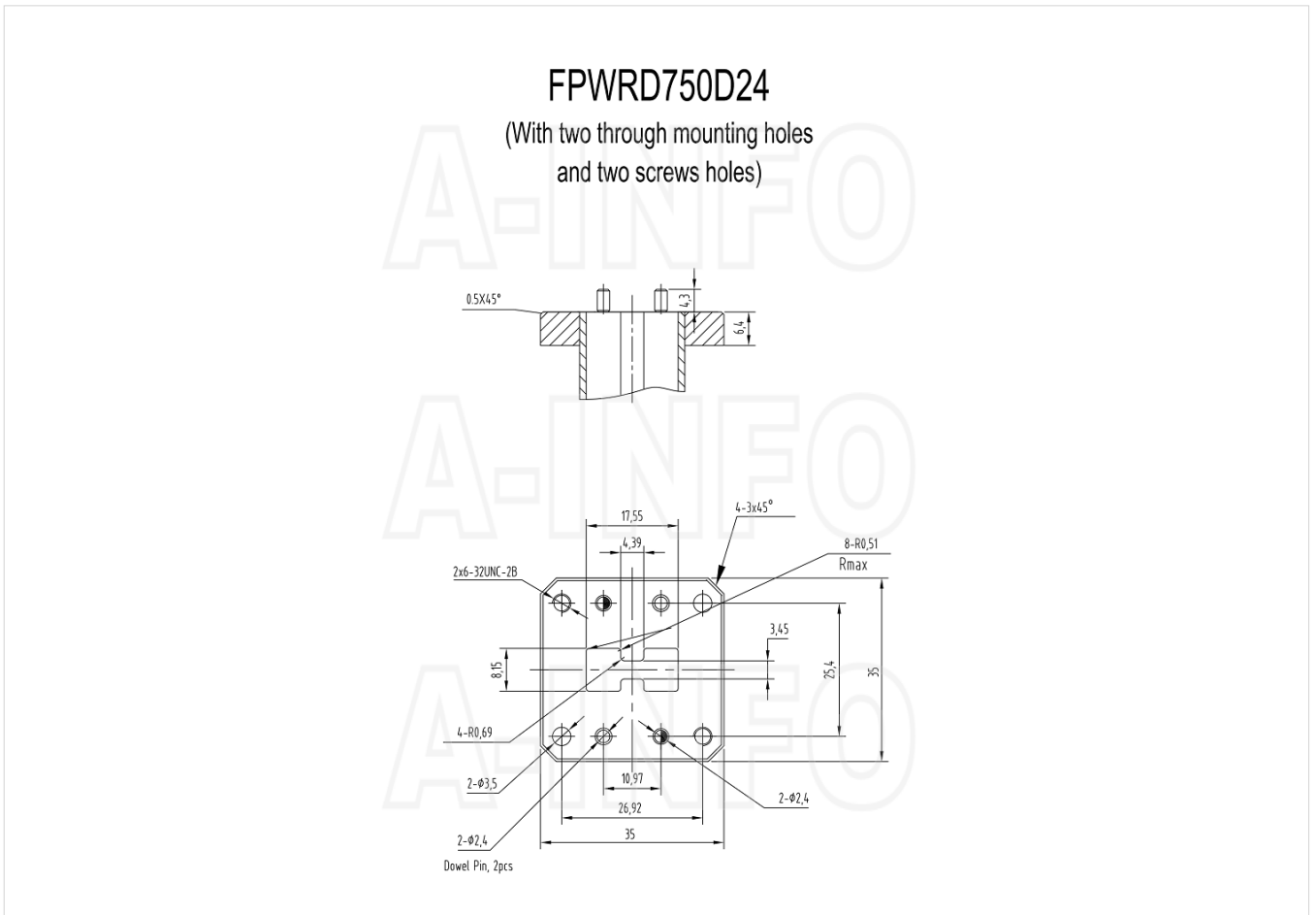
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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Outline Drawing

FPWRD750D24 Output with Radome (Option, P/N: LB-75180-20-ASPO, Outdoor Application)

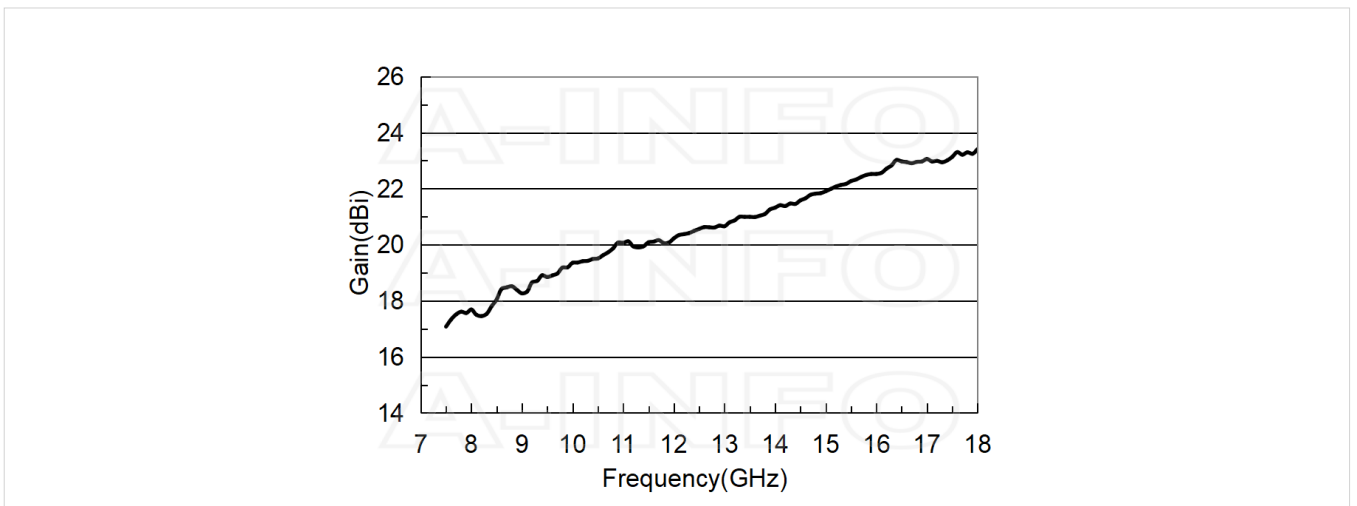


Flange Drawing

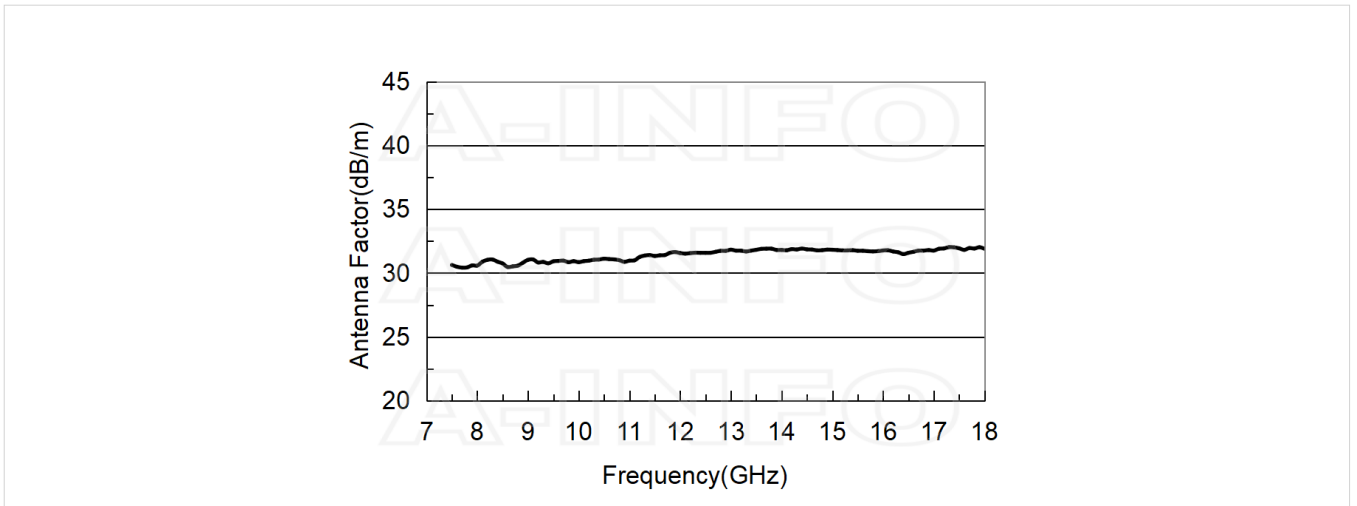


Typical Test Results

Gain



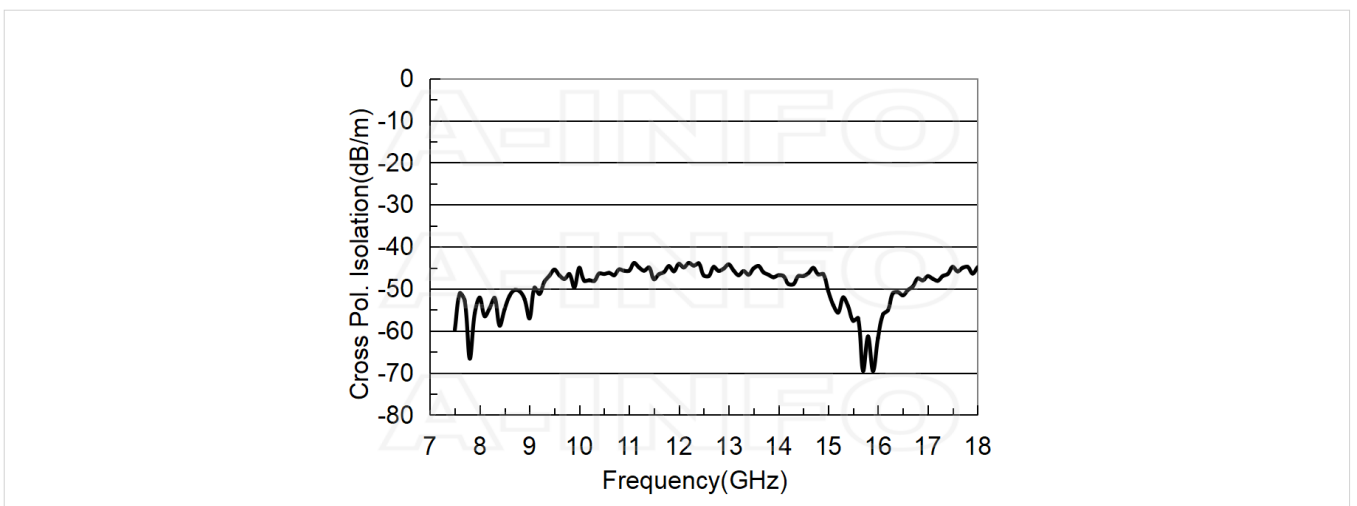
Antenna Factor



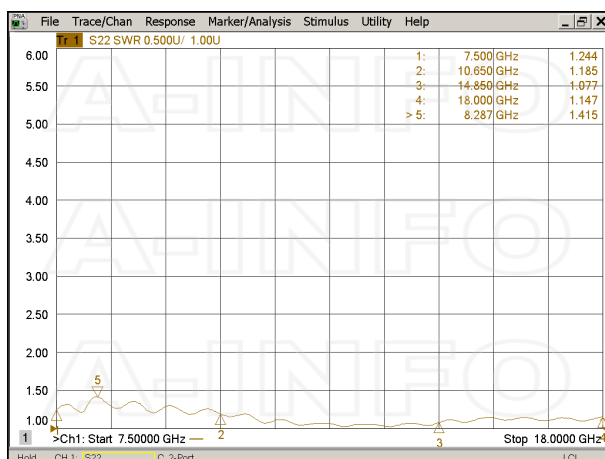
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
7.5	17.08	30.63
8.0	17.69	30.58
9.0	18.26	31.03
10.0	19.35	30.86
11.0	20.07	30.97
12.0	20.23	31.57
13.0	20.66	31.83
14.0	21.32	31.81
15.0	21.91	31.82
16.0	22.52	31.77
17.0	23.06	31.76
18.0	23.41	31.90

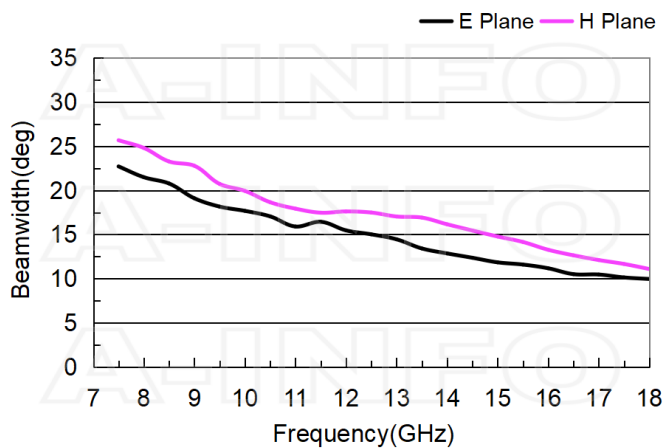
Cross Polarization Isolation



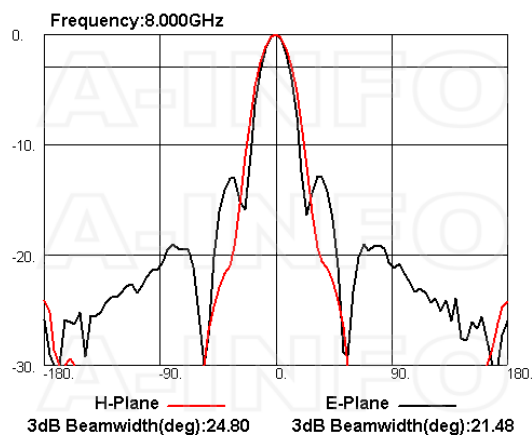
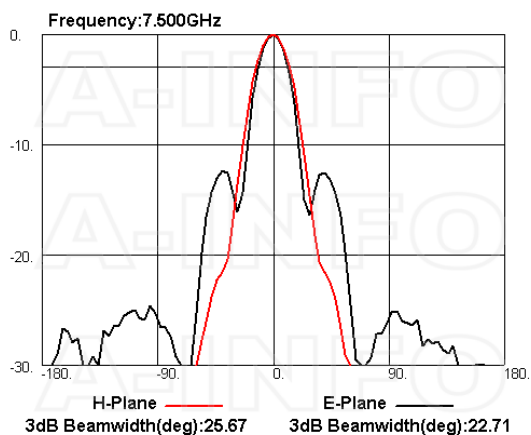
VSWR

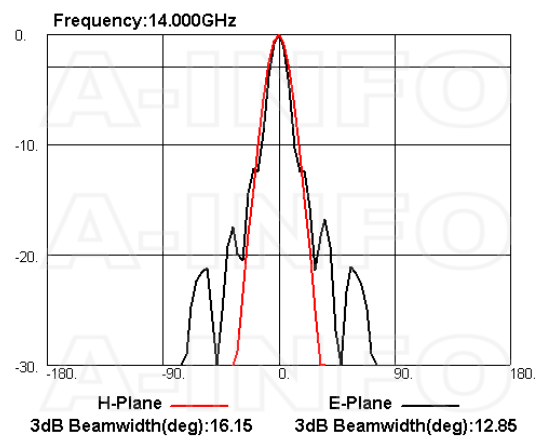
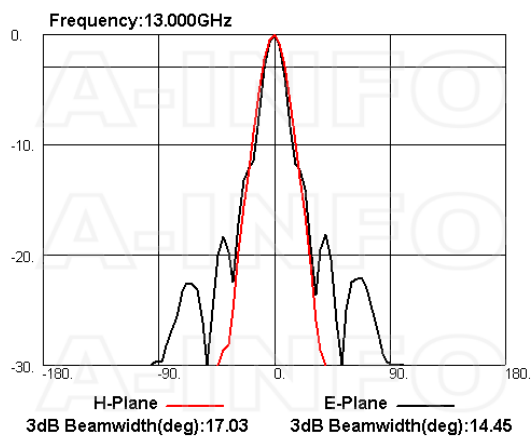
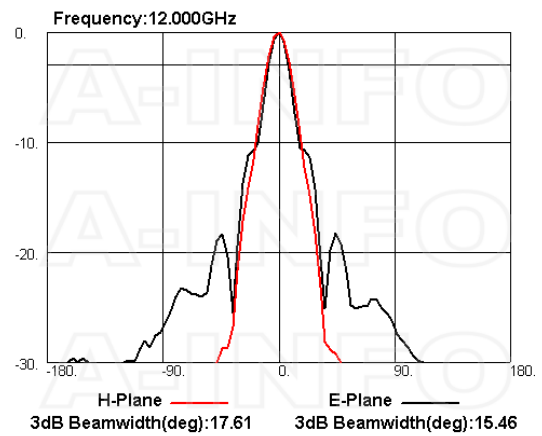
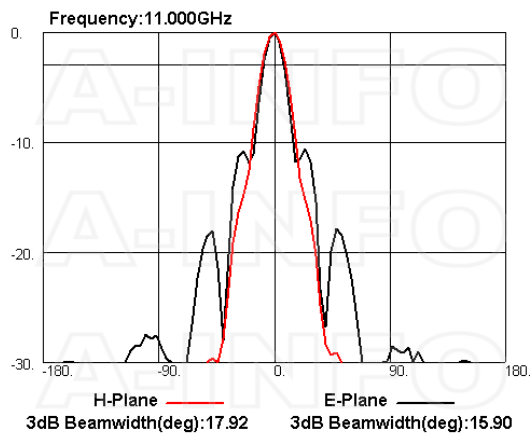
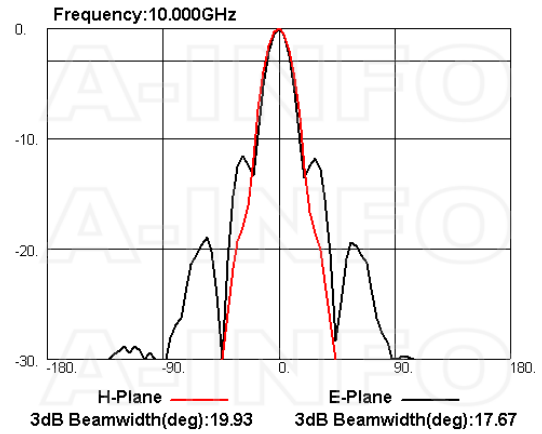
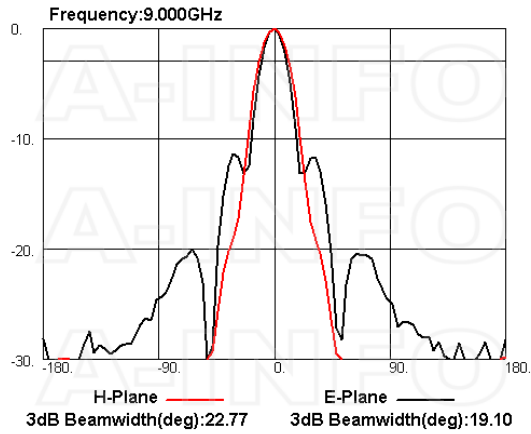


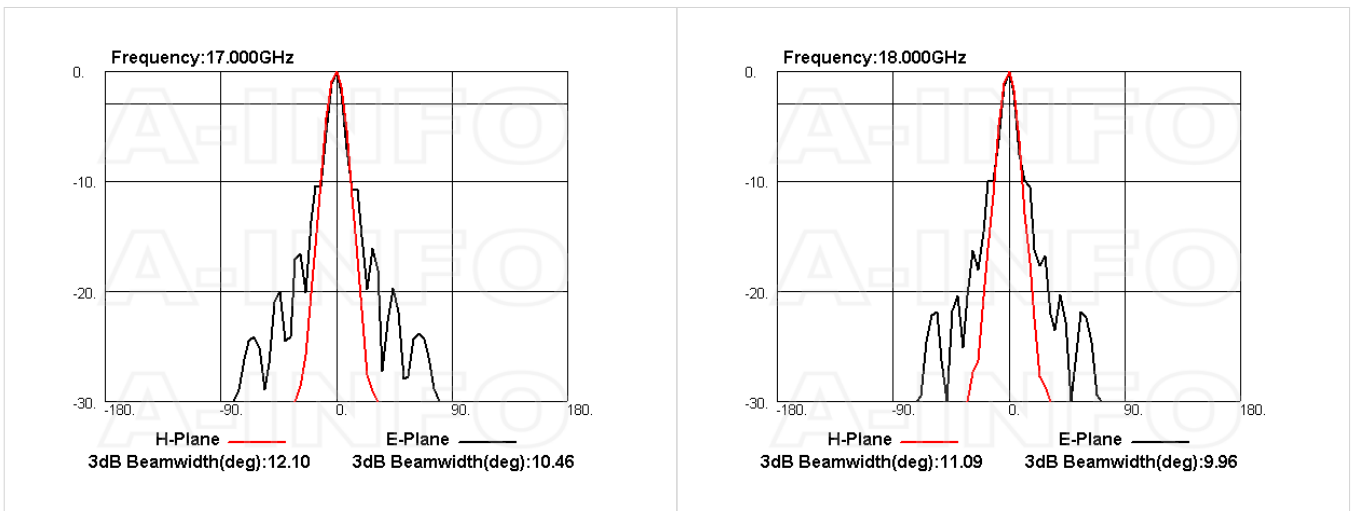
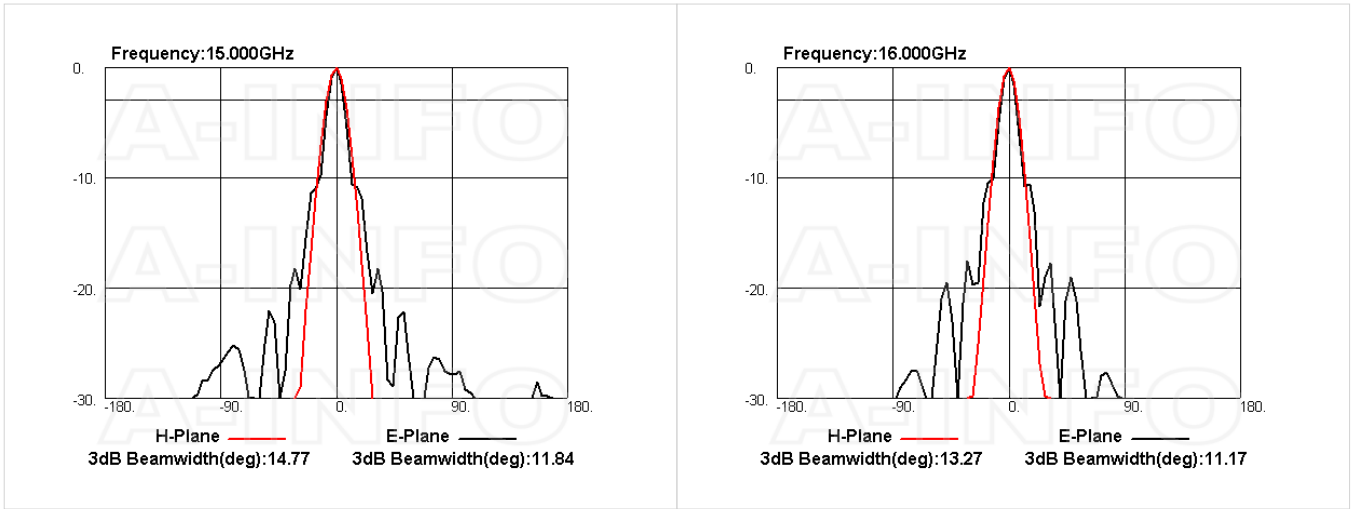
Beamwidth



Pattern







Related Products



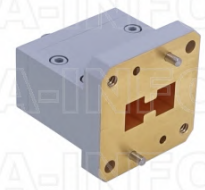
750DRWCAN_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



750DRWCAS_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to SMA Female



750DRWECAN_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



750DRWECAS_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to SMA Female



750DRWHCAN_Cu Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



LB-65180-20-C-MB Round Type Mounting Bracket



LB-65180-20-C-L L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-75180-20-C Al Alloy Carrying Case

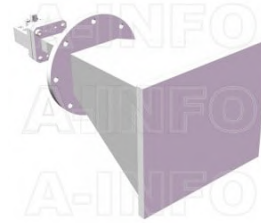
Similar Products



LB-75180-20-A Multi Octave Horn Antenna 7.5-18GHz 20dB Gain Double Ridge Waveguide Interface



LB-75180-20-C-SF Multi Octave Horn Antenna 7.5-18GHz 20dB Gain SMA Female



LB-75180-20-C-SFSPO Multi Octave Horn Antenna 7.5-18GHz 20dB Gain SMA Female



LB-75180-20-C-NF Multi Octave Horn Antenna 7.5-18GHz 20dB Gain N Type Female



LB-75180-20-C-NFSPO Multi Octave Horn Antenna 7.5-18GHz 20dB Gain N Type Female



LB-75180-20-C-HNF Multi Octave Horn Antenna 7.5-18GHz 20dB Gain High Power N Type Female



LB-75180-20-C-HNFSPO Multi Octave Horn Antenna 7.5-18GHz 20dB Gain High Power N Type Female

About this Datasheet

<ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/lb-75180-20-aspo-multi-octave-horn-antenna-7-5-18-ghz-20db-gain-fpwr750d24 Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> ● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none"> ● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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