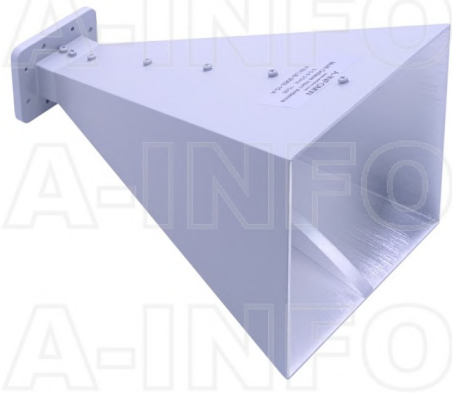


LB-3582-15-A Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



Multi Octave Horn Antenna From 3.5GHz to 8.2GHz With a Nominal 15dB Gain With Double Ridge Waveguide Interface

Product Information

SKU	LB-3582-15-A
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Description

Multi octave horn antenna LB-3582-15-A, operating from 3.5 to 8.2GHz with a nominal 15dB gain and low VSWR 1.5:1 with FPWRD350D24 output. The model LB-3582-15-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

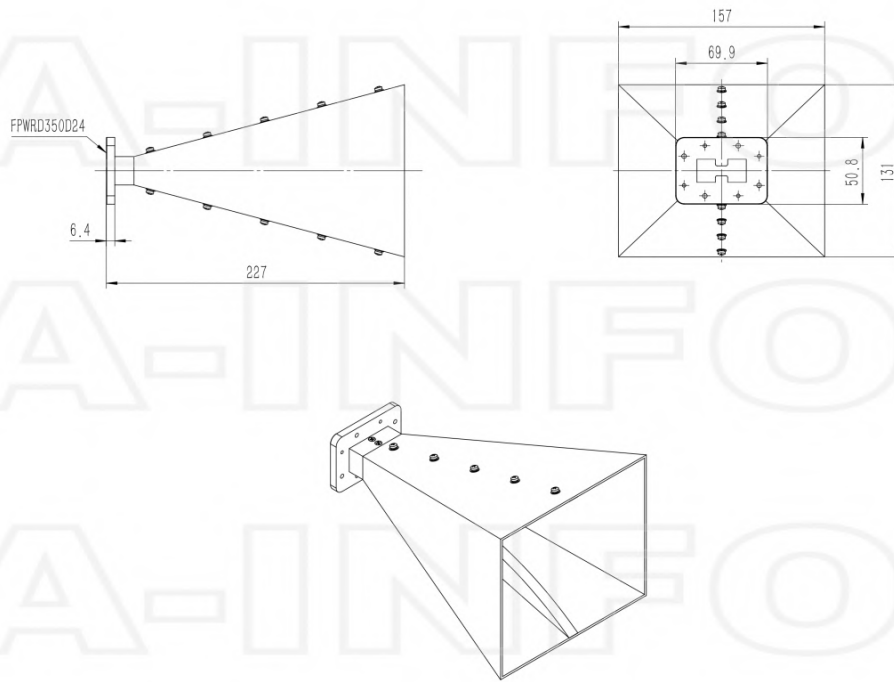
Electrical Specification		Interface	
Frequency, Min (GHz)	3.5	Output Type	Waveguide
Frequency, Max (GHz)	8.2	Flange Designation, WRD	FPWRD350D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD350	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	19	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	33	Size, W (mm)	157
3dB Beamwidth, H-Plane, Min (Deg.)	19	Size, H (mm)	131
3dB Beamwidth, H-Plane, Max (Deg.)	37	Size, L (mm)	227
Cross Pol. Isolation, Typ (dB)	25	Weight, (kg)	0.35
VSWR, Typ	1.5:1		

Additional Information

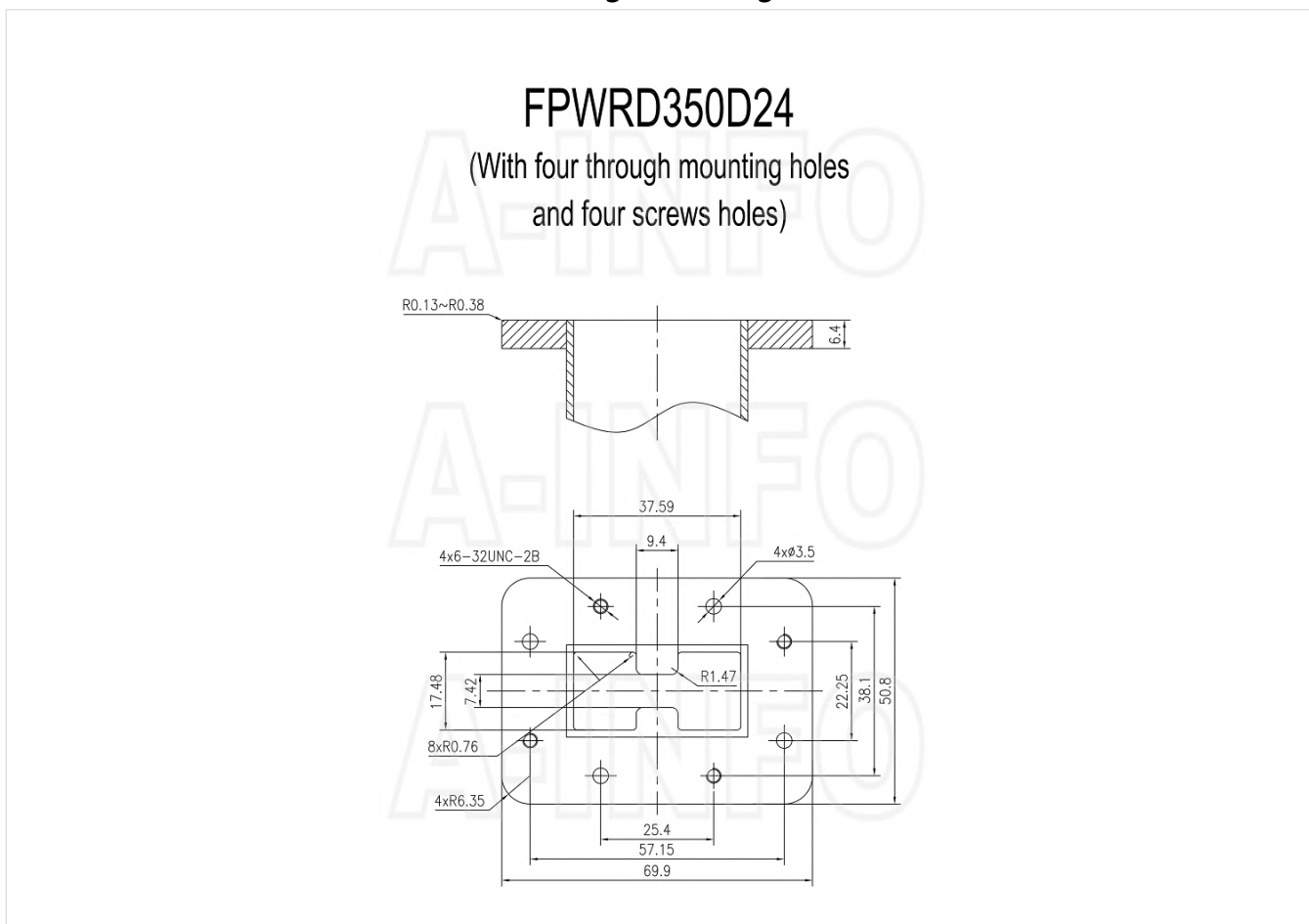
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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Outline Drawing

FPWRD350D24 Output (P/N: LB-3582-15-A)

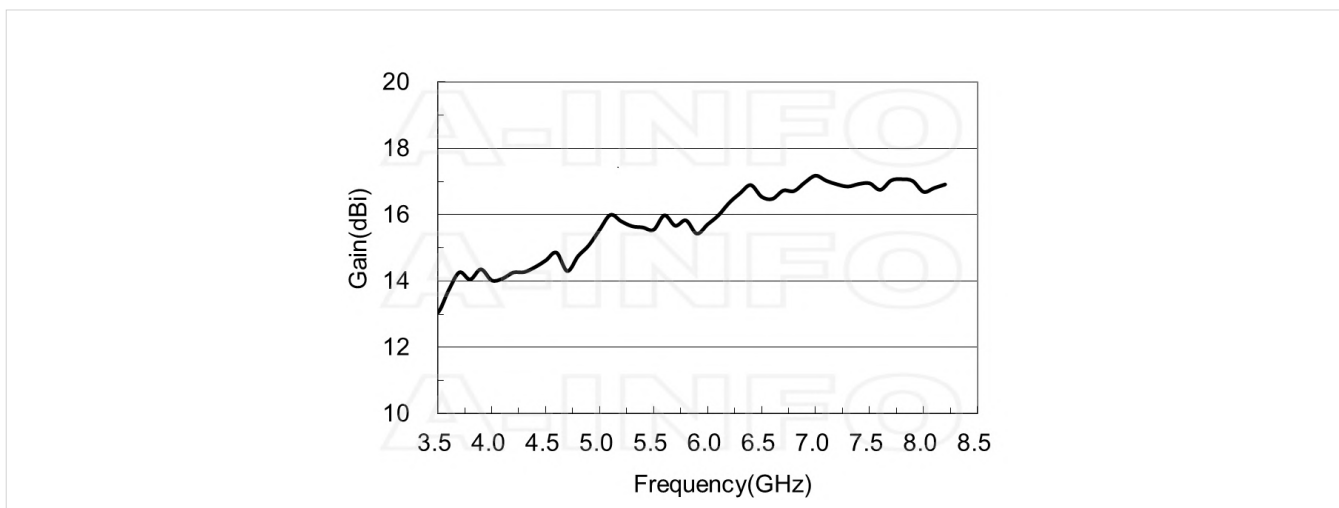


Flange Drawing

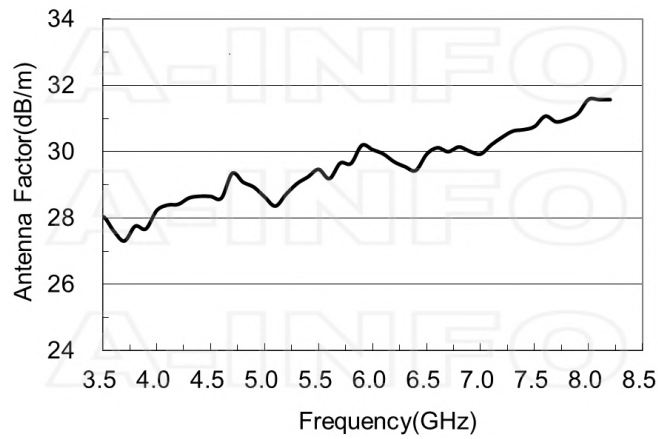


Typical Test Results

Gain



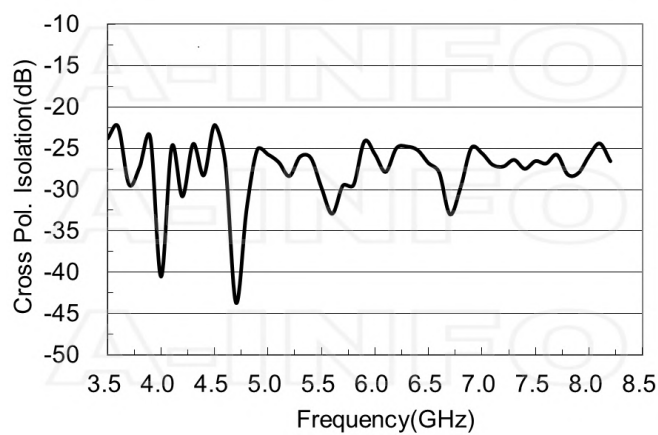
Antenna Factor



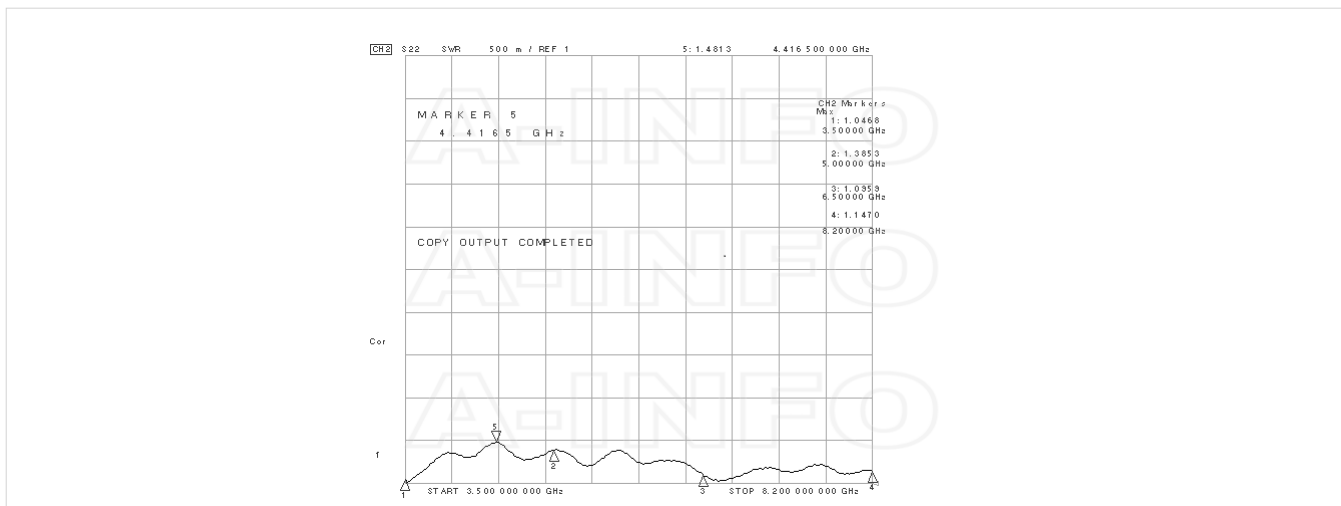
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
3.5	13.05	28.04
4.0	14.02	28.23
4.5	14.62	28.65
5.0	15.55	28.64
5.5	15.55	29.47
6.0	15.71	30.06
6.5	16.54	29.93
7.0	17.18	29.93
7.5	16.95	30.76
8.0	16.69	31.58
8.2	16.92	31.57

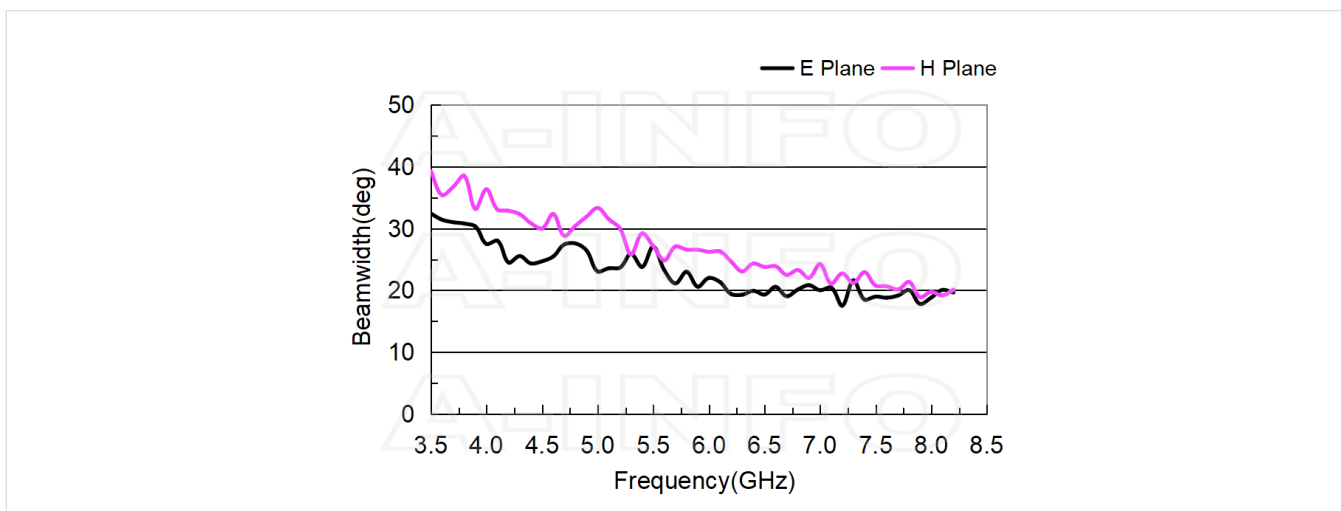
Cross Polarization Isolation



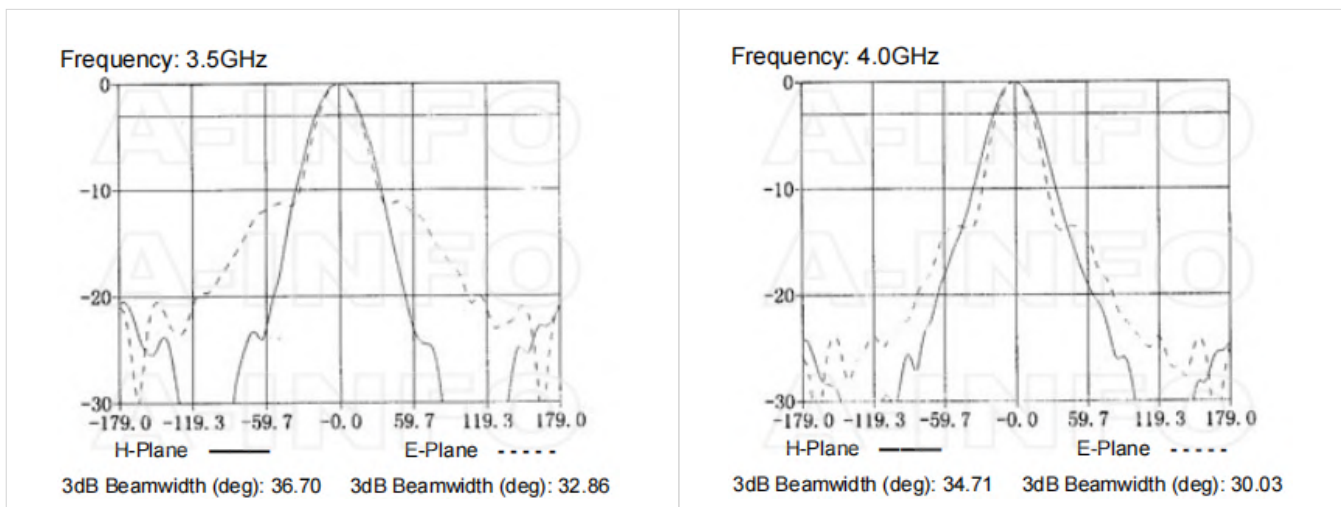
VSWR



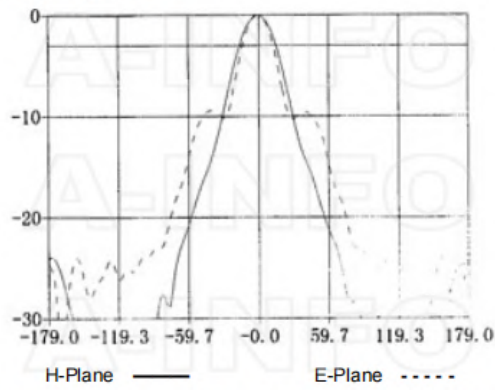
Beamwidth



Pattern

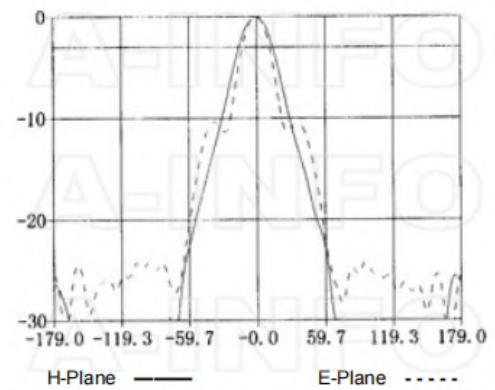


Frequency: 4.5GHz



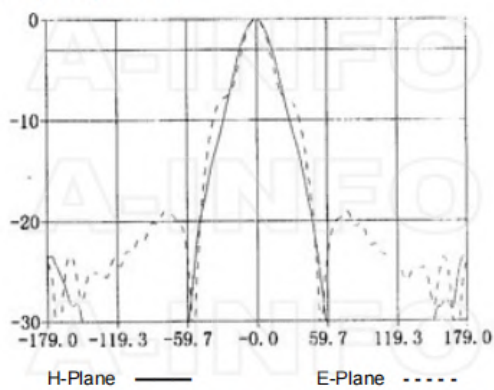
3dB Beamwidth (deg): 30.91 3dB Beamwidth (deg): 26.19

Frequency: 5.0GHz



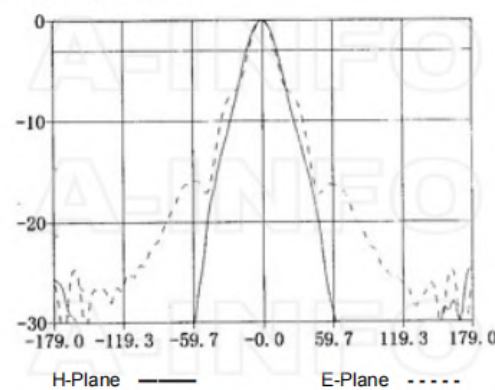
3dB Beamwidth (deg): 29.55 3dB Beamwidth (deg): 23.88

Frequency: 5.5GHz



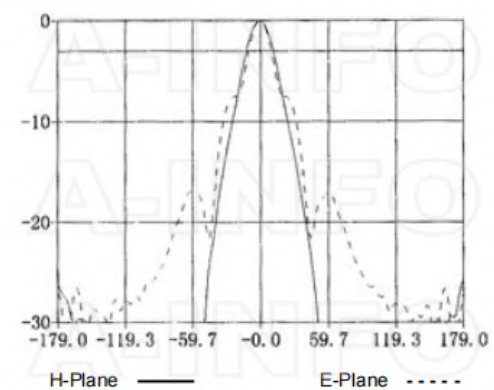
3dB Beamwidth (deg): 27.58 3dB Beamwidth (deg): 23.64

Frequency: 6.0GHz



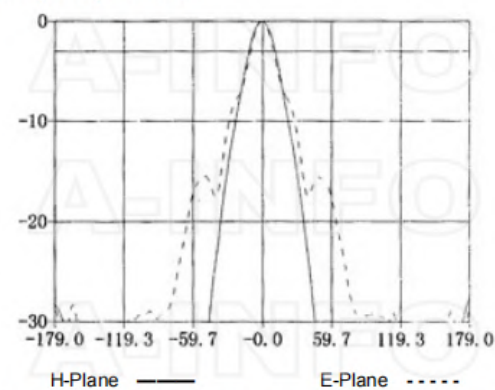
3dB Beamwidth (deg): 25.82 3dB Beamwidth (deg): 22.66

Frequency: 6.5GHz

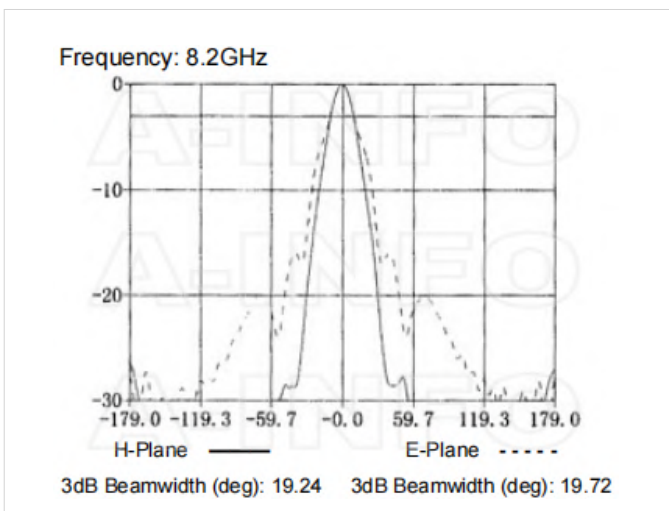
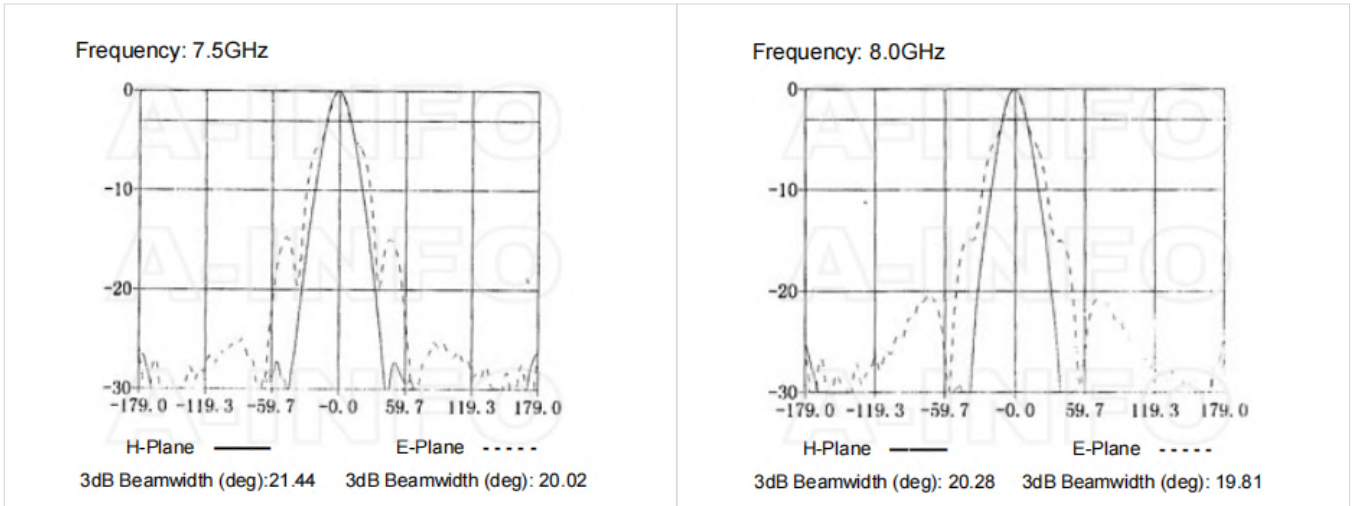


3dB Beamwidth (deg): 23.80 3dB Beamwidth (deg): 19.93

Frequency: 7.0GHz



3dB Beamwidth (deg): 22.52 3dB Beamwidth (deg): 19.76



Related Products



350DRWCAN Right Angle Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to N Type Female



350DRWCAS Right Angle Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to SMA Female



350DRWECAN Endlaunch Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to N Type Female

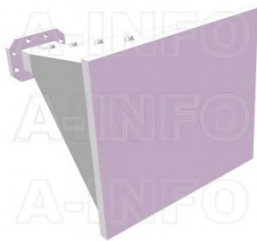


350DRWECAS Endlaunch Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to SMA Female



350DRWHCAN Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to N Type Female

Similar Products



LB-3582-15-ASPO Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



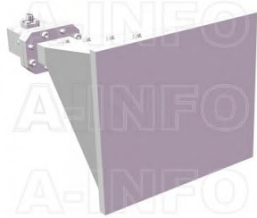
LB-3582-15-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-NFSPO Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-SF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain SMA Female



LB-3582-15-C-SFSPO Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain SMA Female

About this Datasheet

<ul style="list-style-type: none"> ● Product Information Product Link: https://www.ainfoinc.com/lb-3582-15-a-multi-octave-horn-antenna-3-5-8-2-ghz-15db-gain-fpwr350d24 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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