

LB-3582-15-ASPO 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-ASPO
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Description

Multi octave horn antenna LB-3582-15-ASPO, 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-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.

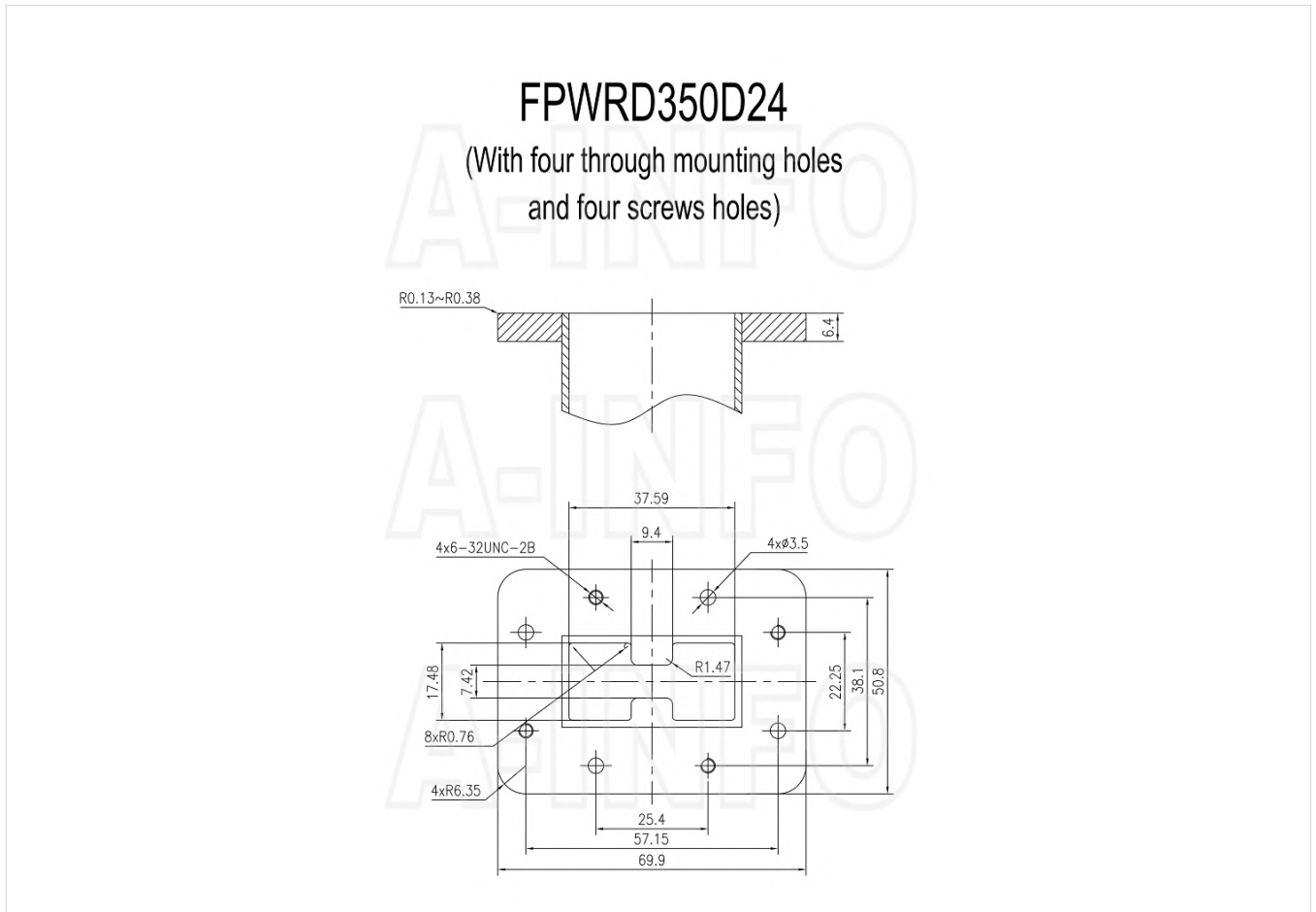
Technical Specification

Electrical Specification		Interface	
Frequency, Min (GHz)	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)	169
3dB Beamwidth, H-Plane, Min (Deg.)	19	Size, H (mm)	143
3dB Beamwidth, H-Plane, Max (Deg.)	37	Size, L (mm)	233
Cross Pol. Isolation, Typ (dB)	25	Weight, (kg)	0.45
VSWR, Typ	1.5:1		

Additional Information

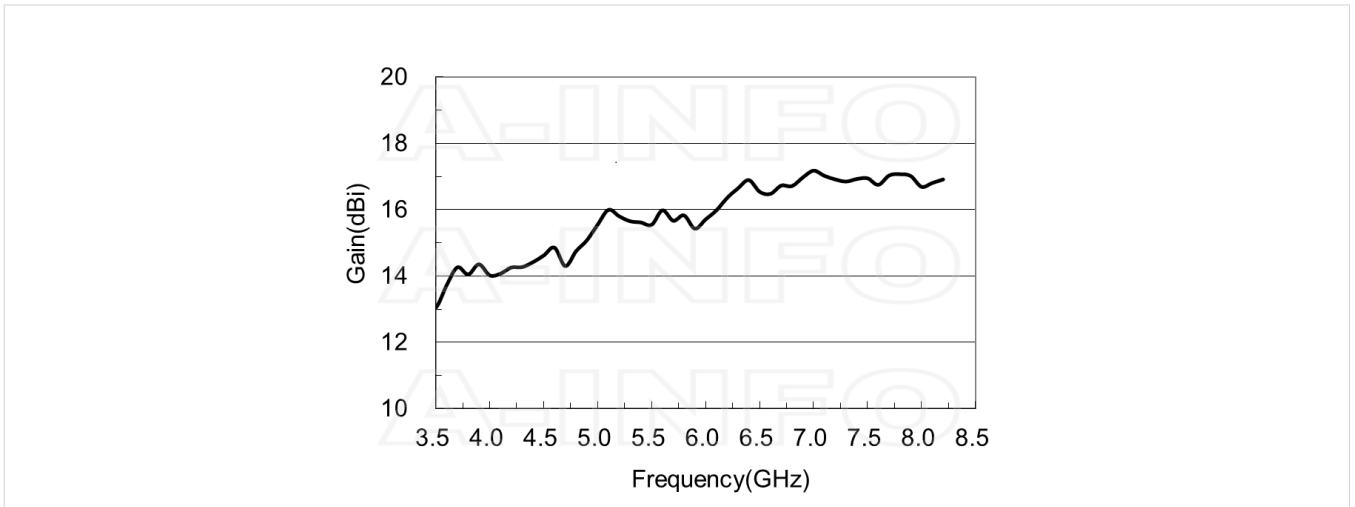
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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Flange Drawing

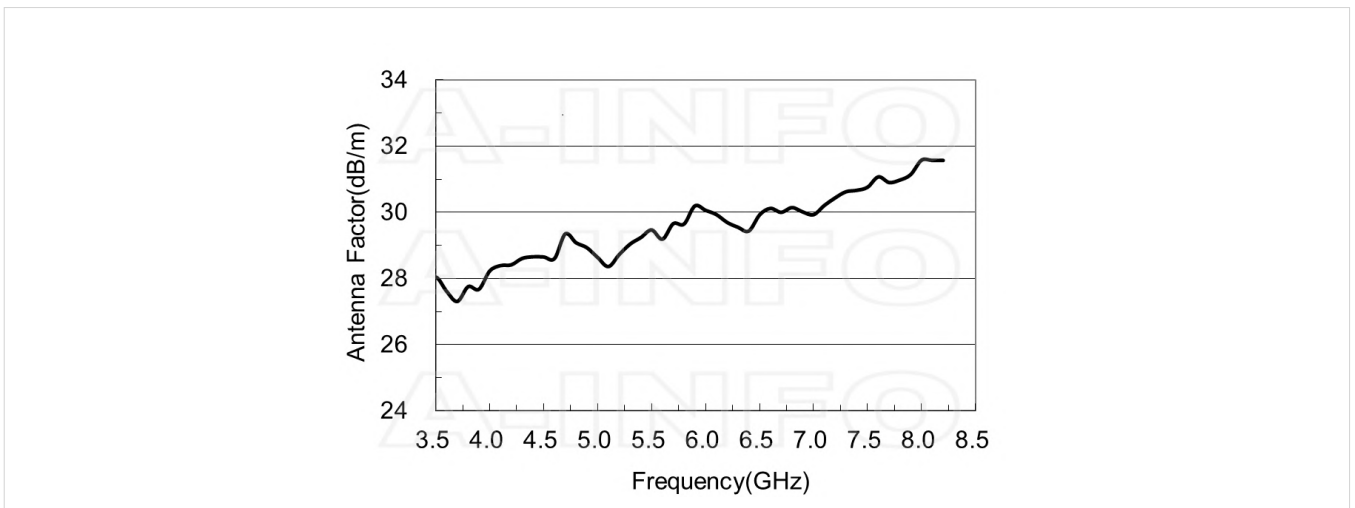


Typical Test Results

Gain



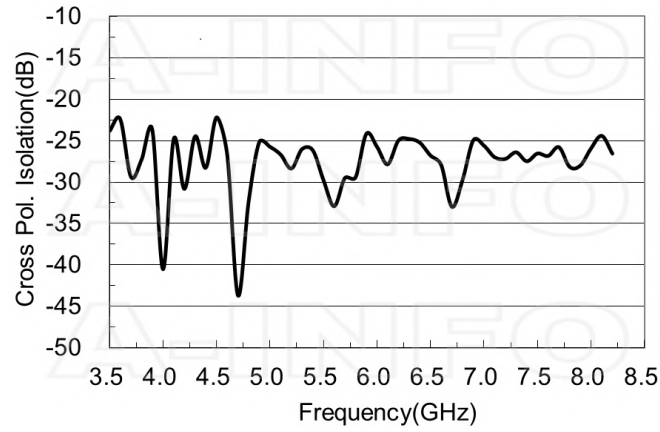
Antenna Factor



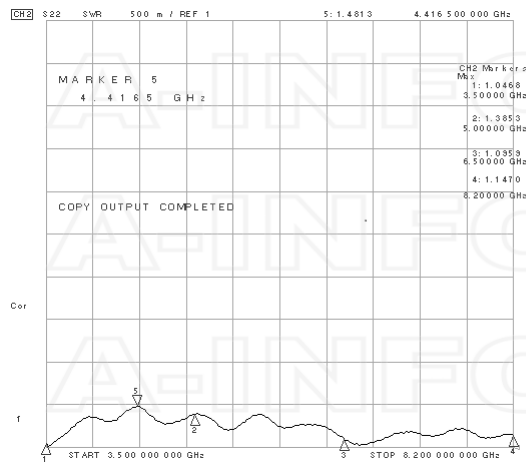
Antenna Factor (Table)

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

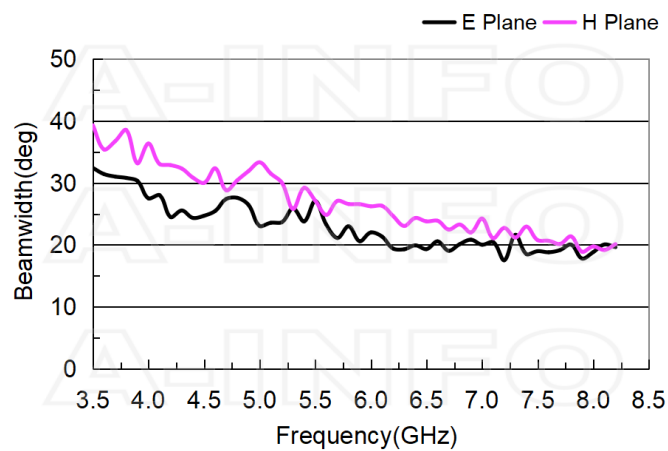
Cross Polarization Isolation



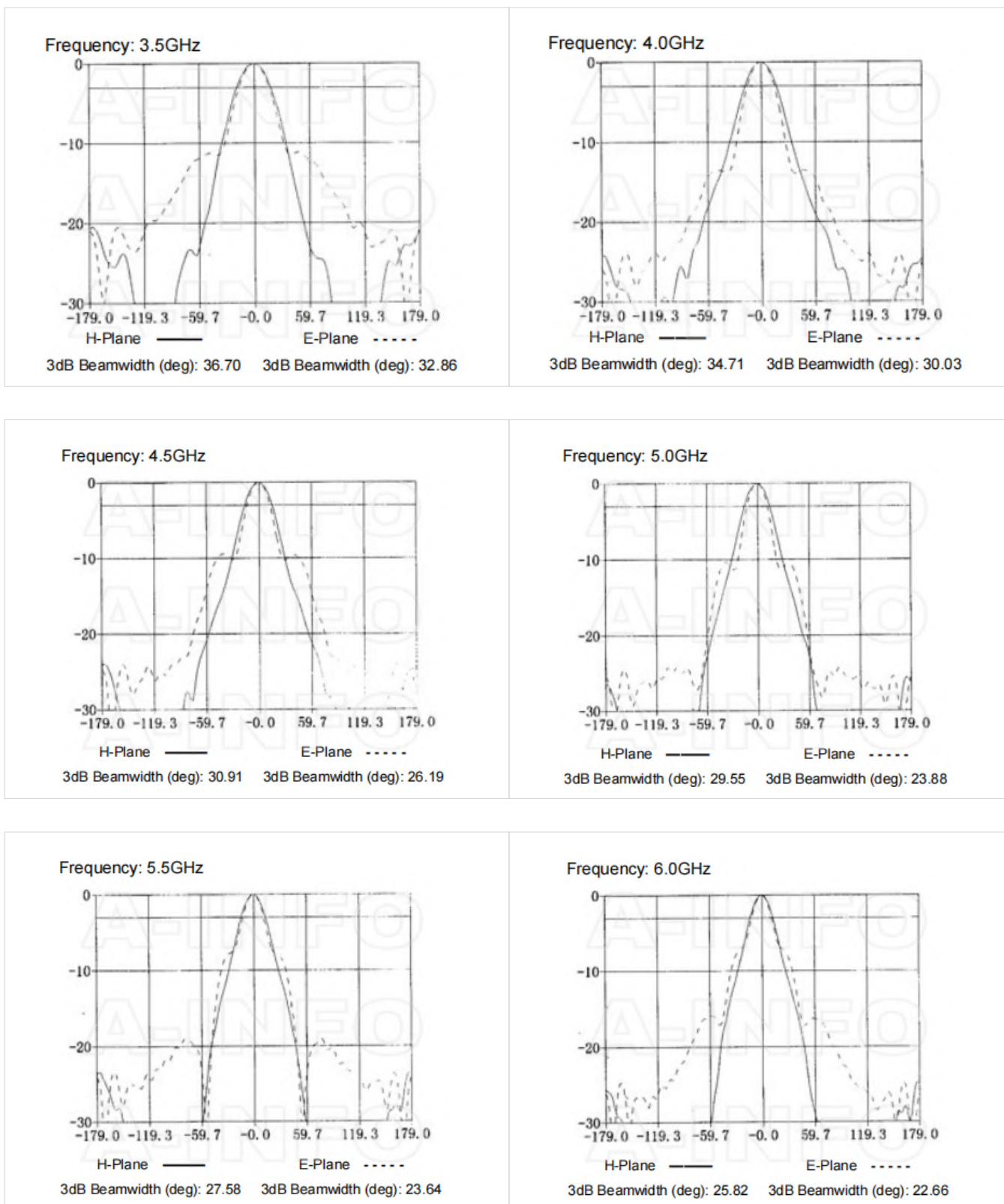
VSWR



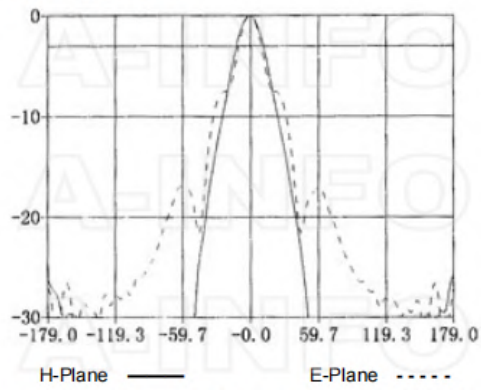
Beamwidth



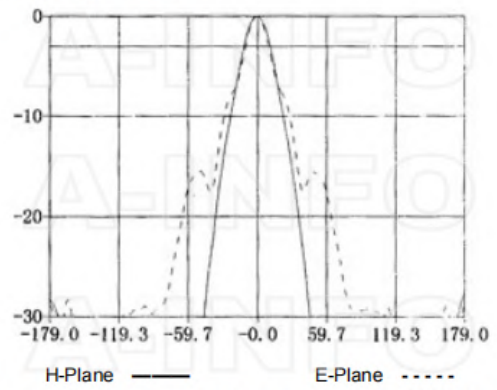
Pattern



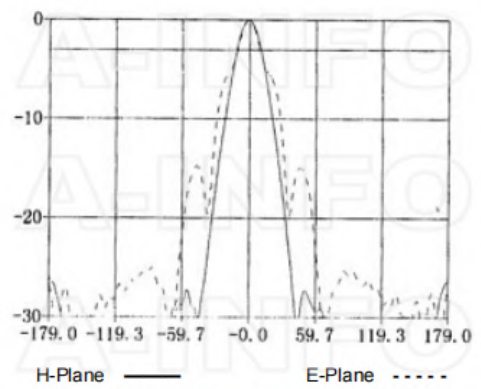
Frequency: 6.5GHz



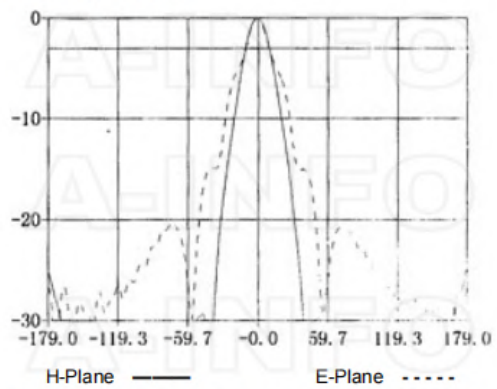
Frequency: 7.0GHz



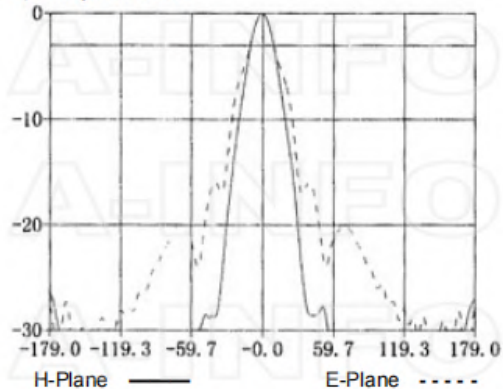
Frequency: 7.5GHz



Frequency: 8.0GHz



Frequency: 8.2GHz



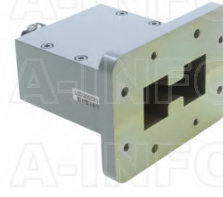
Related Products



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

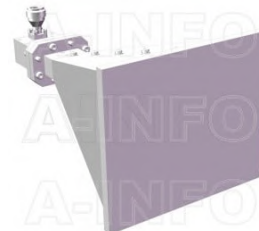
Similar Products



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



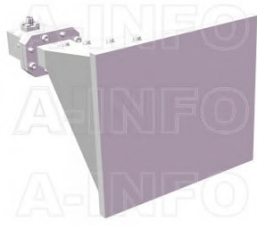
LB-3582-15-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-NFSP 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-SFSP0 Multi
Octave Horn Antenna 3.5-8.2GHz
15dB Gain SMA Female

About this Datasheet

<ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/lb-3582-15-aspo-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</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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