

### LB-3582-10-A Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain Double Ridge Waveguide Interface



Multi Octave Horn Antenna From 3.5GHz to 8.2GHz With a Nominal 10dB Gain With Double Ridge Waveguide Interface

## Product Information

SKU	LB-3582-10-A
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## Description

Multi octave horn antenna LB-3582-10-A, operating from 3.5 to 8.2GHz with a nominal 10dB gain and low VSWR 1.5:1 with FPWRD350D24 output. The model LB-3582-10-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

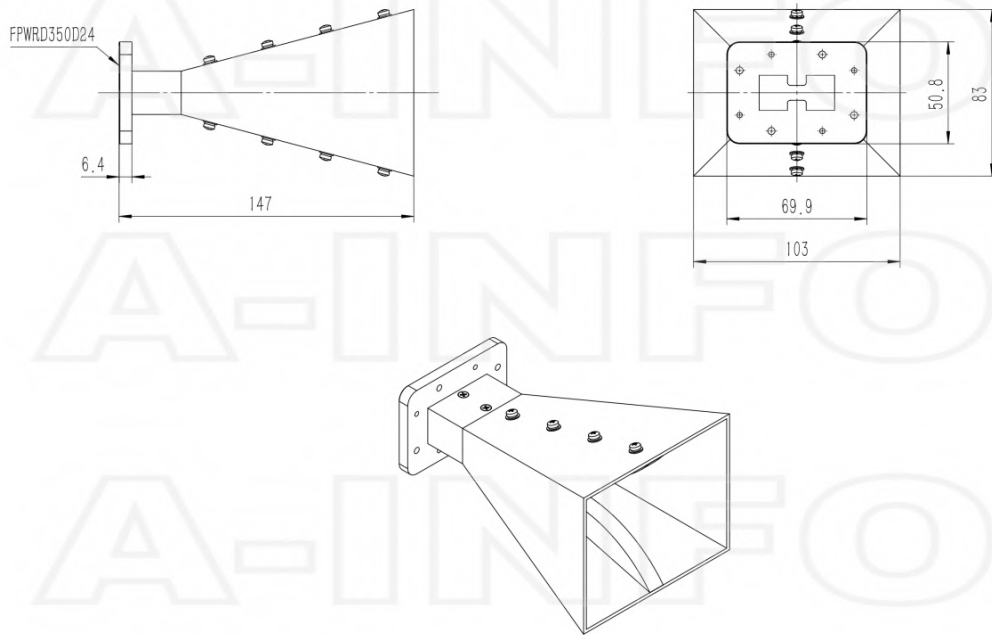
Electrical Specification		Interface	
Frequency, Min (GHz)	3.5	Output Type	Waveguide
Frequency, Max (GHz)	8.2	Flange Designation, WRD	FPWRD350D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD350	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	24	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	60	Size, W (mm)	103
3dB Beamwidth, H-Plane, Min (Deg.)	24	Size, H (mm)	83
3dB Beamwidth, H-Plane, Max (Deg.)	62	Size, L (mm)	147
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.3
VSWR, Typ	1.5:1		

## Additional Information

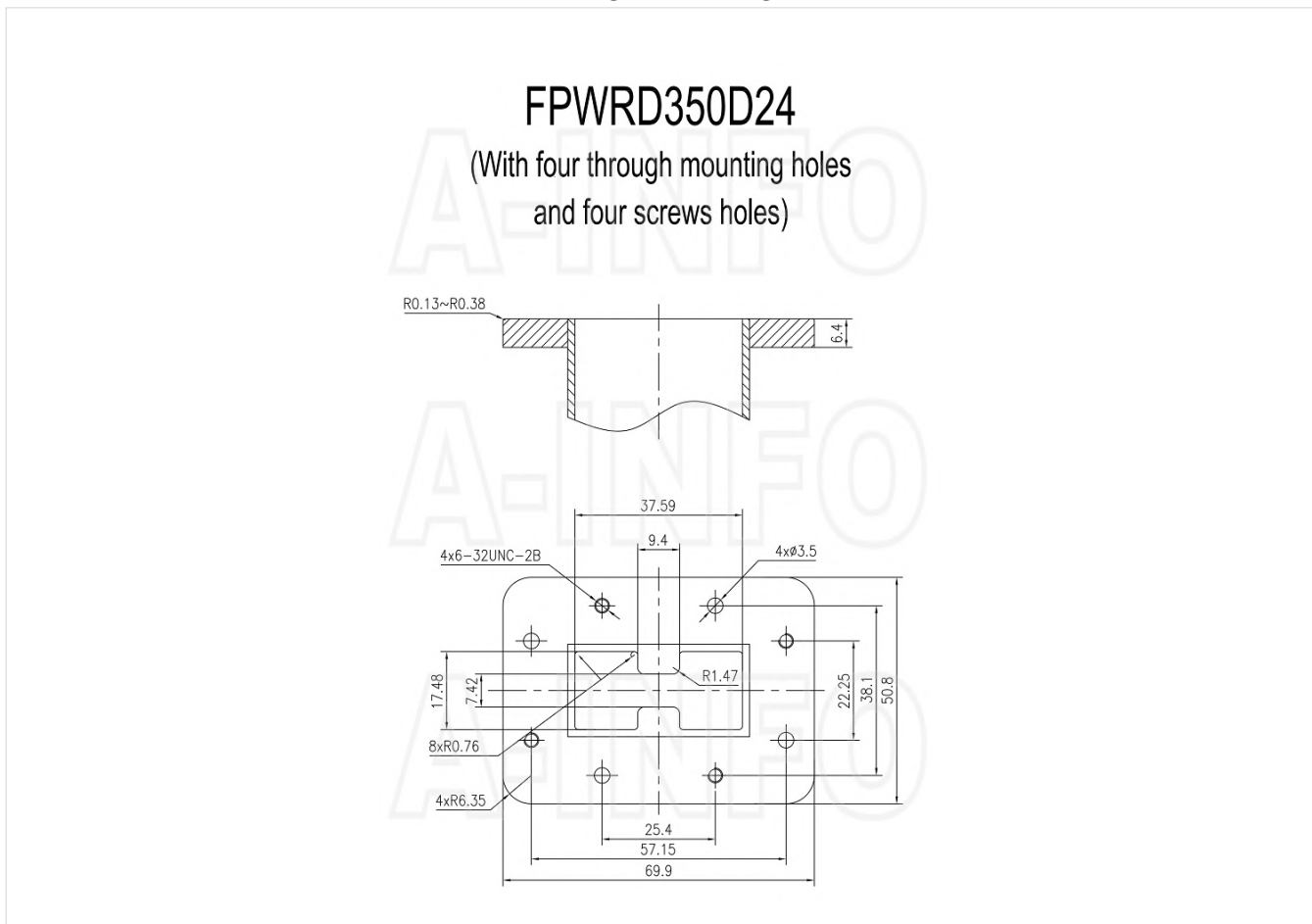
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

FPWRD350D24 Output (P/N: LB-3582-10-A)

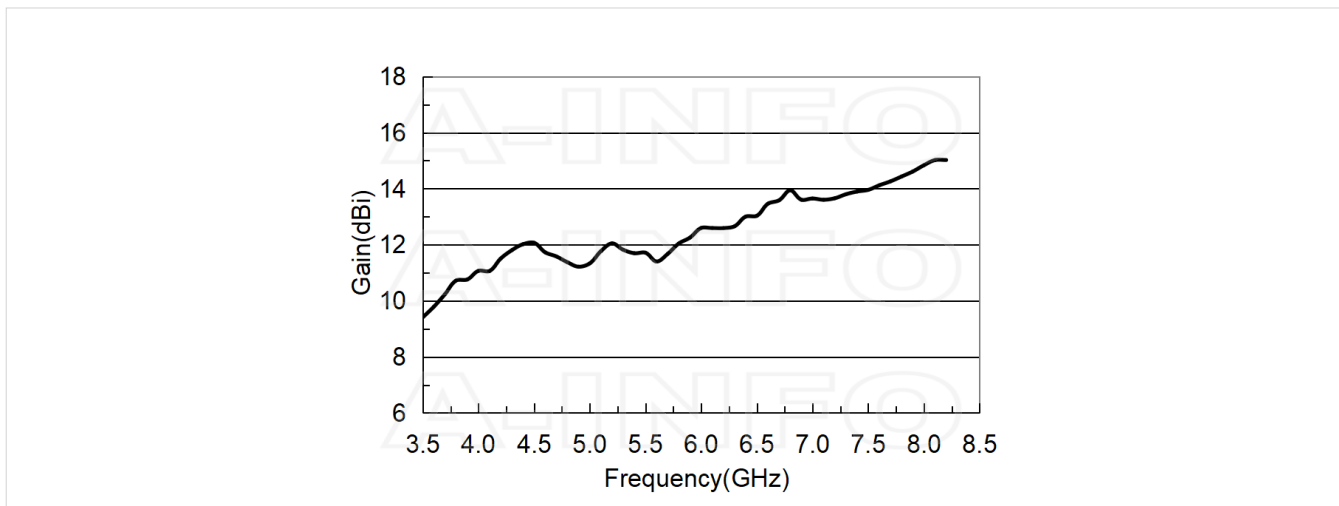


Flange Drawing

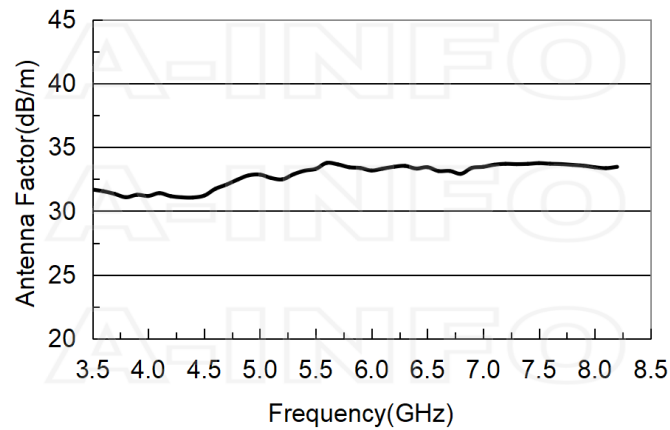


Typical Test Results

Gain



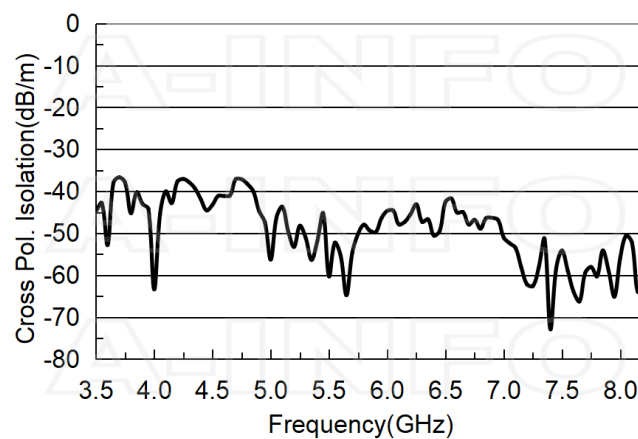
## Antenna Factor



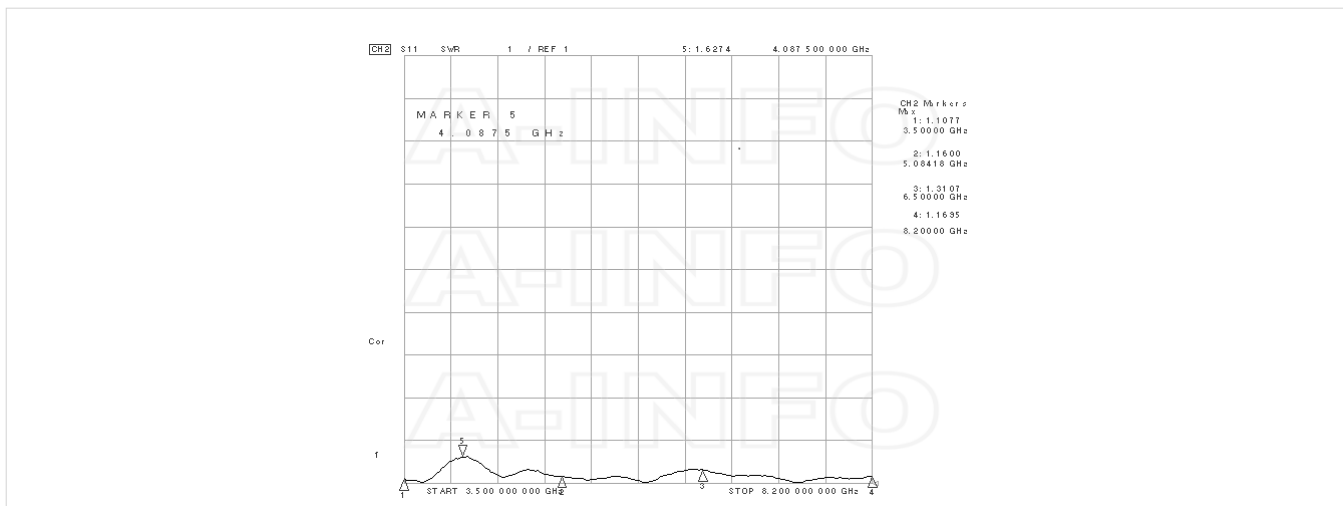
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
3.5	9.41	31.68
4.0	11.07	31.18
4.5	12.07	31.21
5.0	11.33	32.85
5.5	11.71	33.30
6.0	12.60	33.18
6.5	13.03	33.44
7.0	13.65	33.46
7.5	13.96	33.75
8.0	14.84	33.44
8.2	15.02	33.46

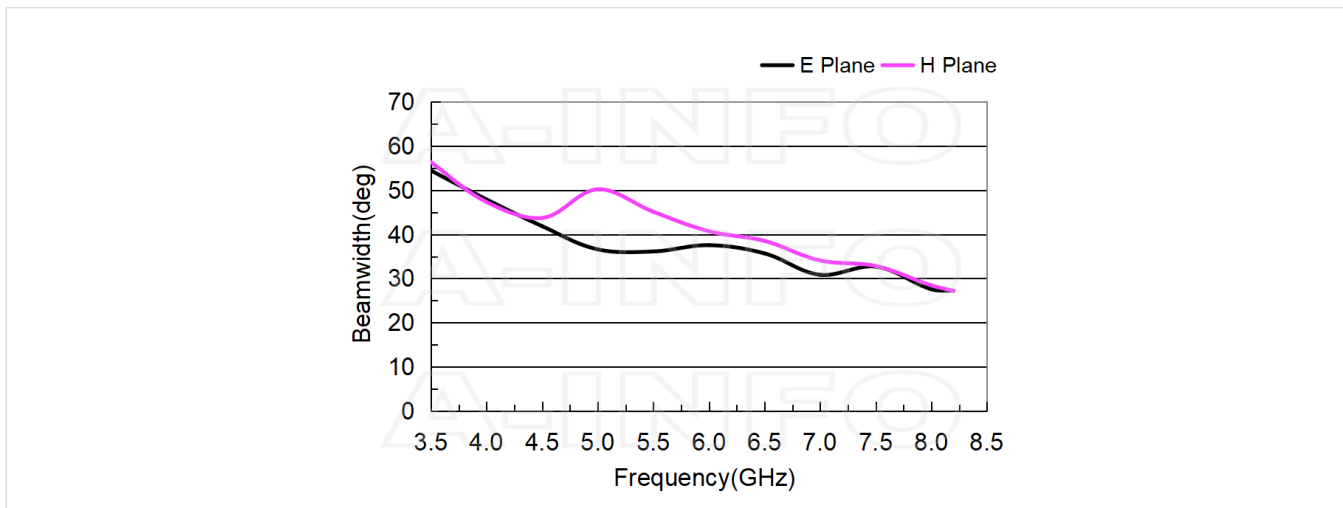
## Cross Polarization Isolation



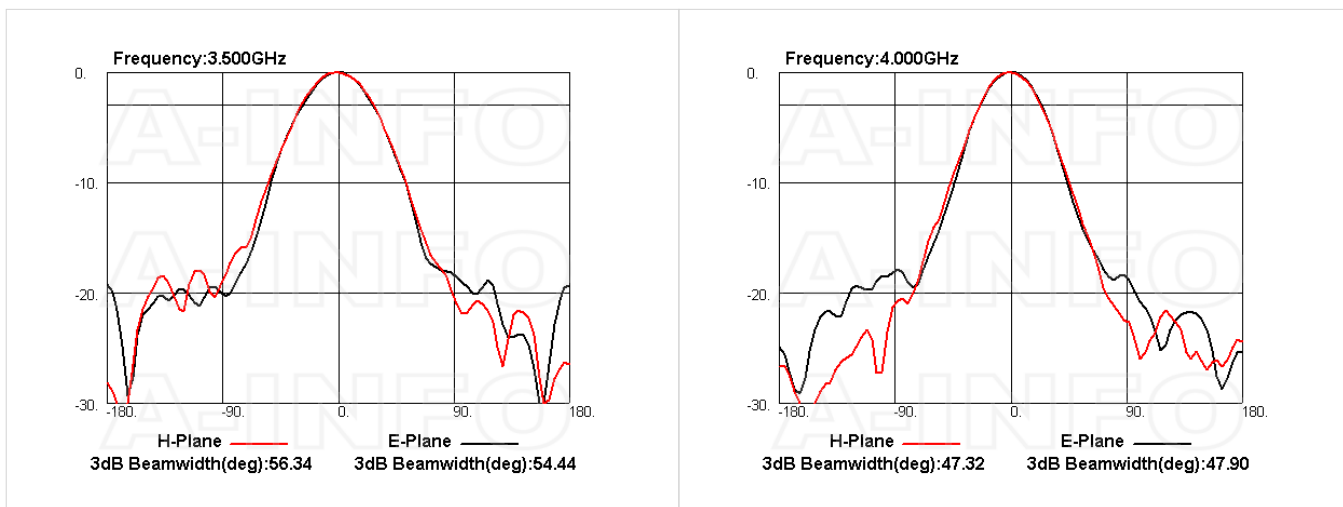
## VSWR

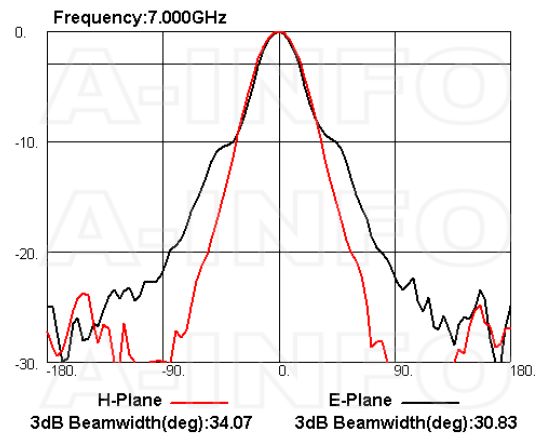
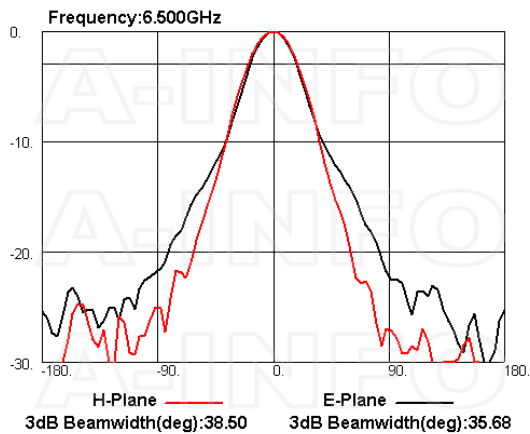
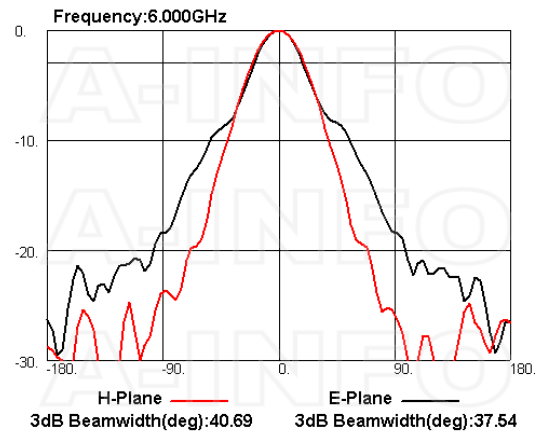
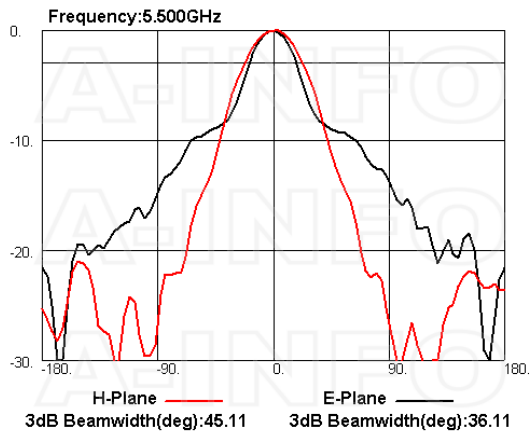
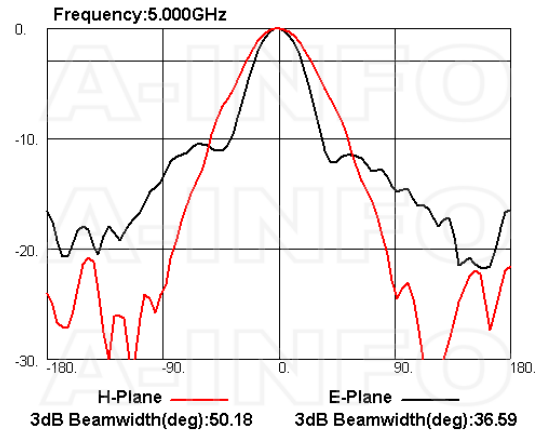
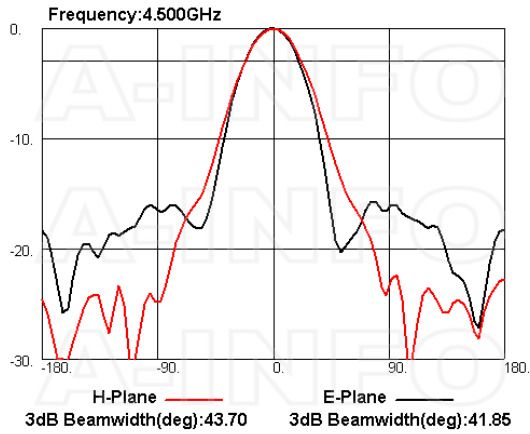


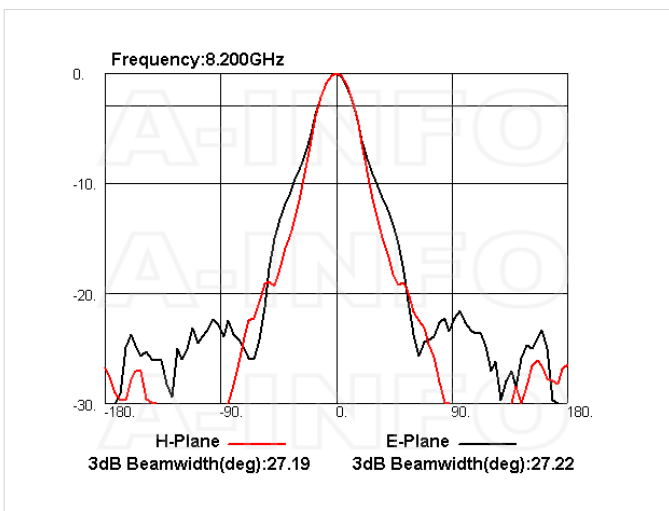
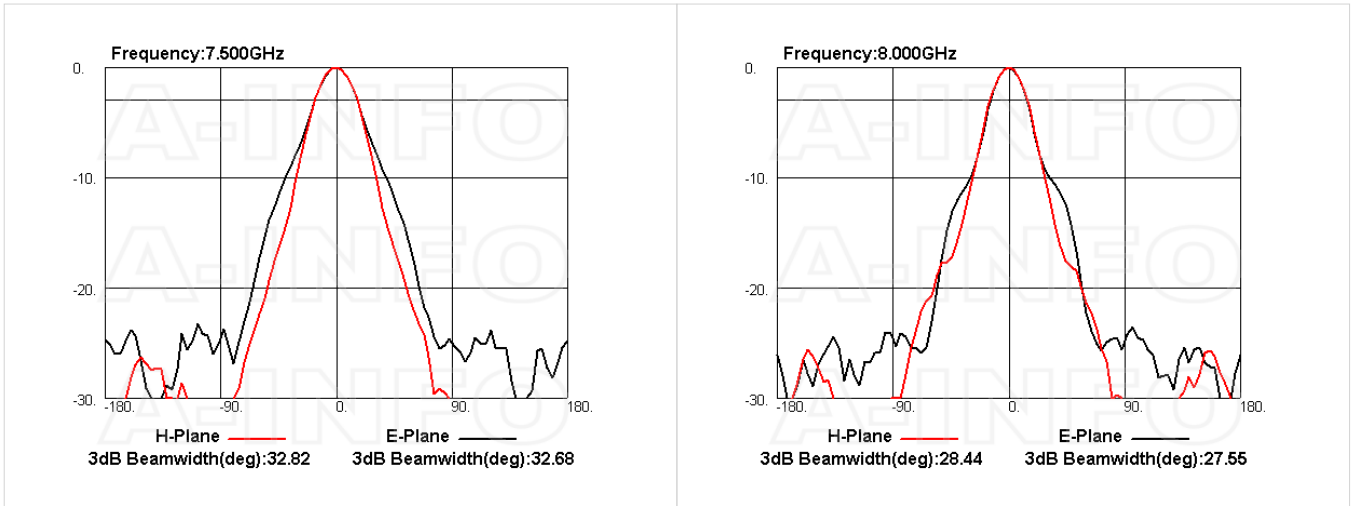
## Beamwidth



## Pattern







## 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

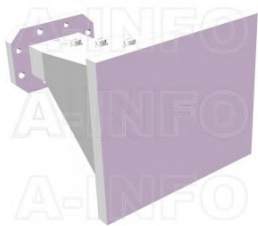


350DRWECAS Endlaunch Double Ridge Waveguide to Coaxial Adapter 3.5-8.2GHz WRD350 to SMA Female



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

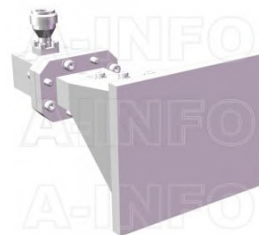
## Similar Products



LB-3582-10-ASPO Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain Double Ridge Waveguide Interface



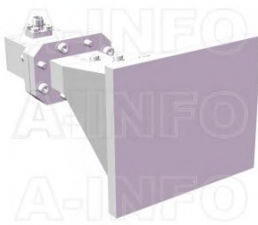
LB-3582-10-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain N Type Female



LB-3582-10-C-NFSPO Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain N Type Female



LB-3582-10-C-SF Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain SMA Female



LB-3582-10-C-SFSPO Multi Octave Horn Antenna 3.5-8.2GHz 10dB Gain SMA Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b> Product Link: <a href="https://www.ainfoinc.com/lb-3582-10-a-multi-octave-horn-antenna-3-5-8-2-ghz-10db-gain-fpwr350d24">https://www.ainfoinc.com/lb-3582-10-a-multi-octave-horn-antenna-3-5-8-2-ghz-10db-gain-fpwr350d24</a> Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Contact Us</b> Address: 60 Tesla, Irvine, CA 92618, USA  Website: <a href="http://www.ainfoinc.com">www.ainfoinc.com</a>  Email: <a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Phone &amp; Fax</b> Phone: +1-949-639-9688 +1-949-639-9608  Fax: +1-949-639-9670</li> </ul>
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