LB-3582-20-A Multi Octave Horn Antenna 3.5-8.2GHz 20dB Gain Double Ridge Waveguide Interface

Multi Octave Horn Antenna From 3.5GHz to 8.2GHz With a Nominal 20dB Gain With Double Ridge Waveguide Interface

Product Information

SKU	LB-3582-20-A

Description

Multi octave horn antenna LB-3582-20-A, operating from 3.5 to 8.2GHz with a nominal 20dB gain and low VSWR 1.5:1 with FPWRD350D24 output. The model LB-3582-20-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	
Frequency, Min (GHz)	3.5
Frequency, Max (GHz)	8.2
Waveguide Type	Double Ridge
Waveguide Size EIA WRD	WRD350
Gain, Typ (dBi)	20
Polarization	Linear

Interface	
Output Type	Waveguide
Flange Designation, WRD	FPWRD350D24
Connector Gender	N/A
Mechanical Specification	
Figure	A Type
Body Material	Al
Finish	Chemical Conversion Coating, Gray Paint

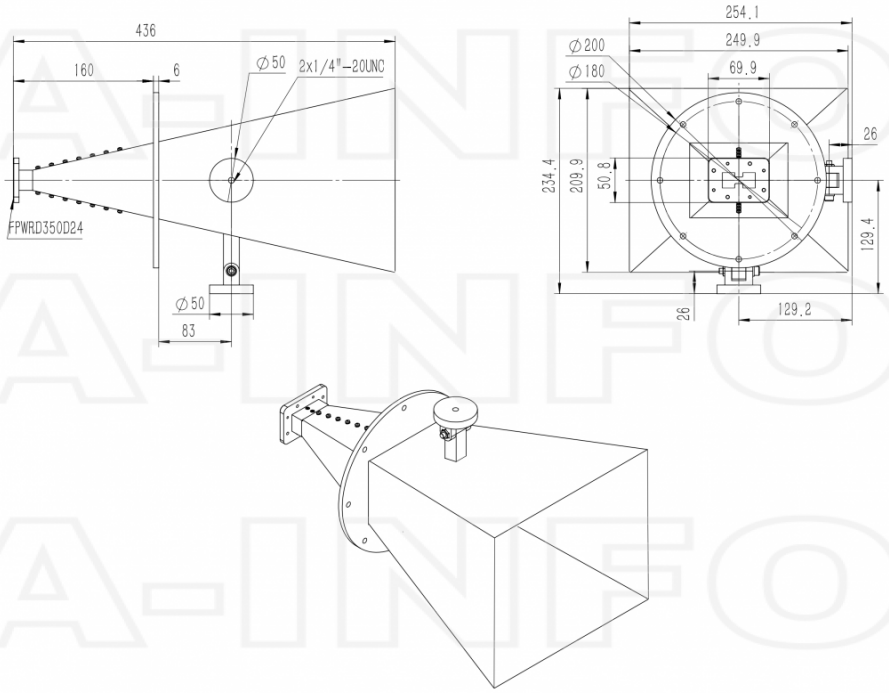
Additional Information

Application	General Purpose Indoor & Outdoor, Fixed

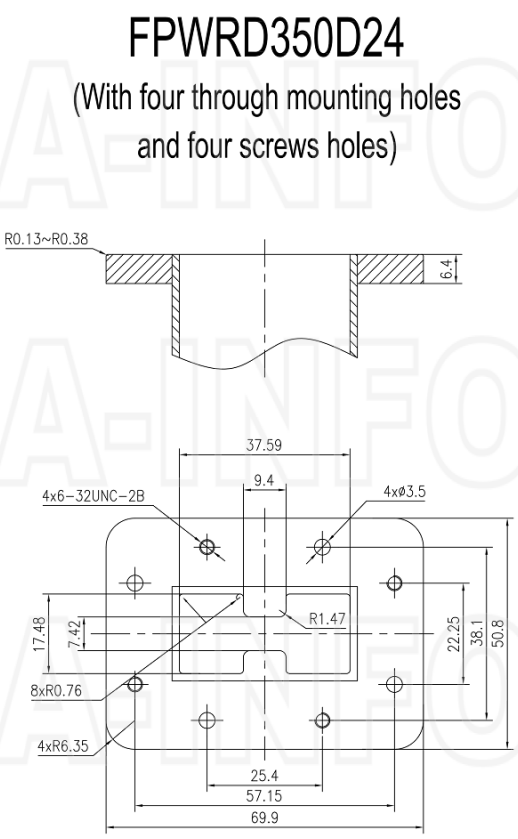
Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration

Outline Drawing

FPWRD350D24 Output (P/N: LB-3582-20-A)

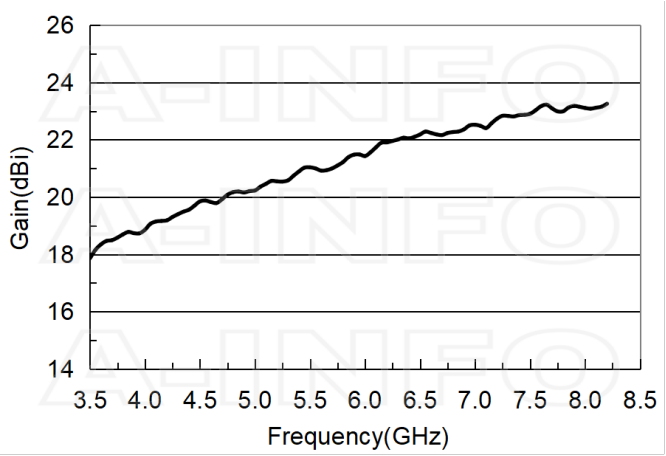


Flange Drawing

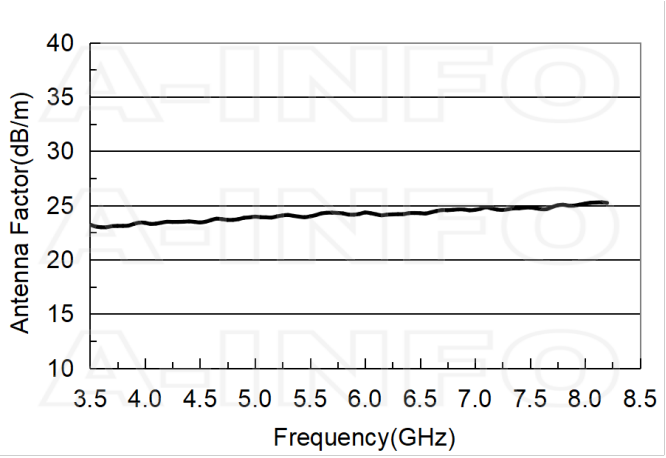


Typical Test Results

Gain



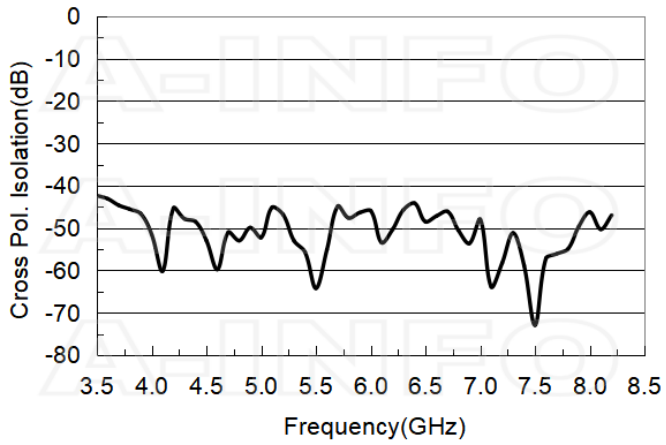
Antenna Factor



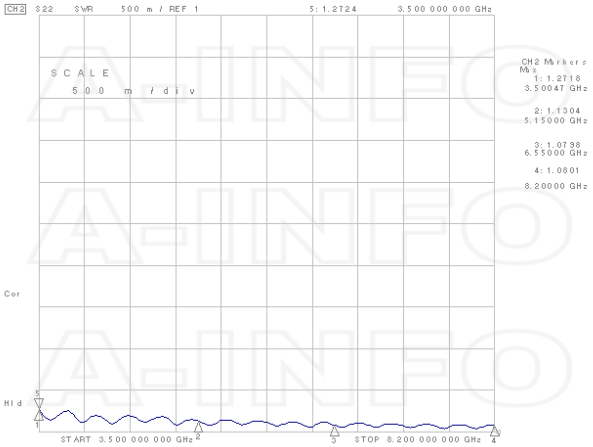
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
3.5	17.86	23.23
4.0	18.86	23.39
4.5	19.85	23.43
5.0	20.23	23.96
5.5	21.04	23.98
6.0	21.43	24.34
6.5	22.18	24.28
7.0	22.52	24.59
7.5	22.91	24.80
8.0	23.11	25.16
8.2	23.26	25.23

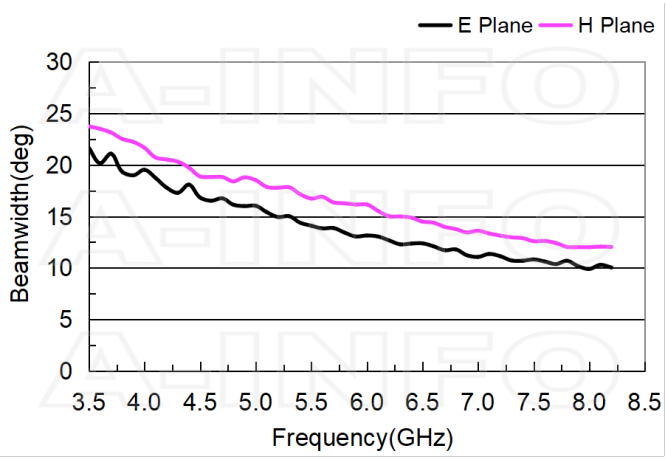
Cross Polarization Isolation



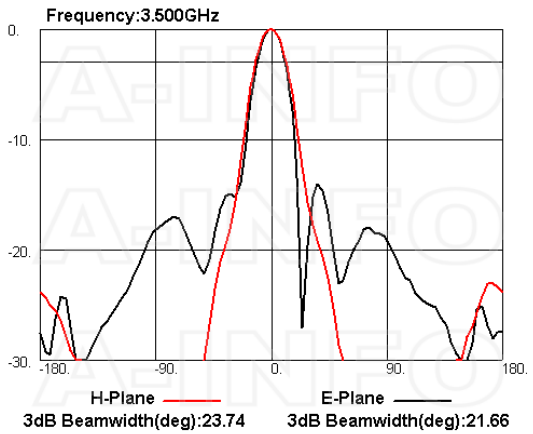
VSWR

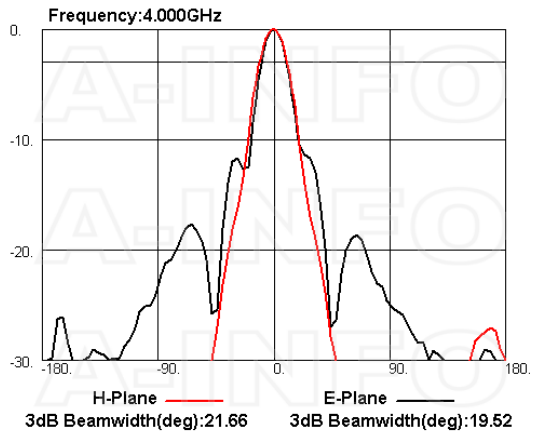


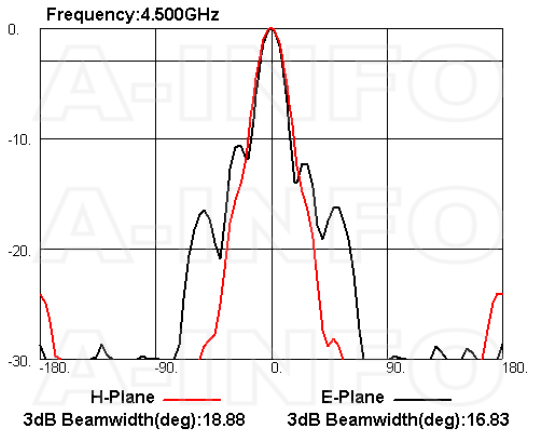
Beamwidth

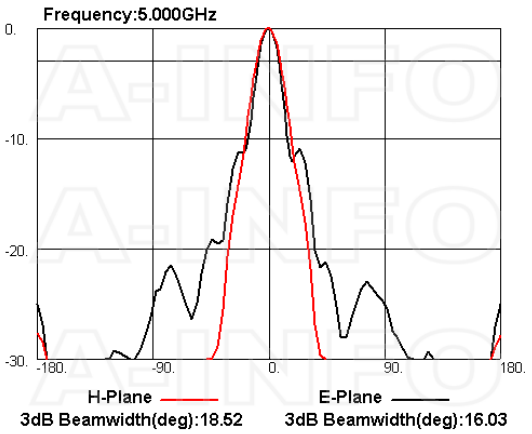


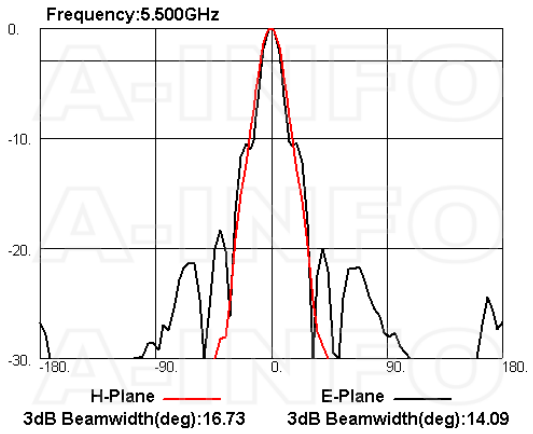
Pattern

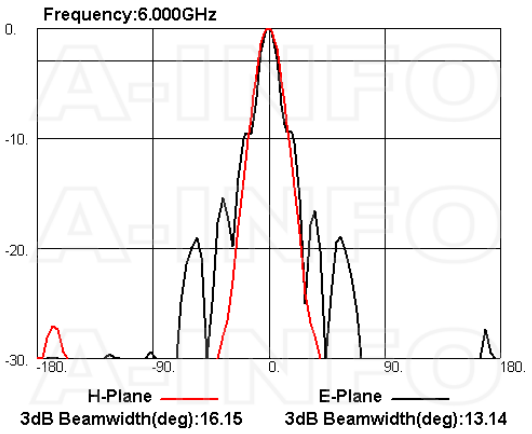


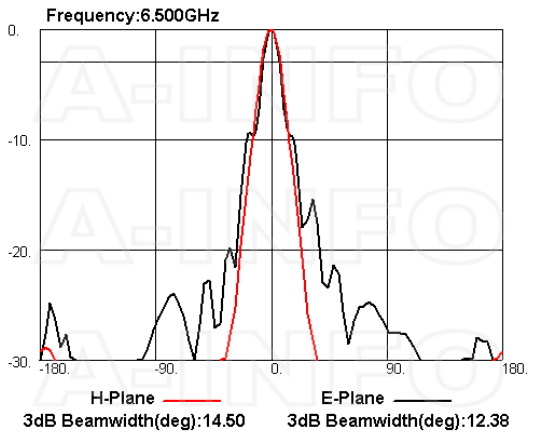


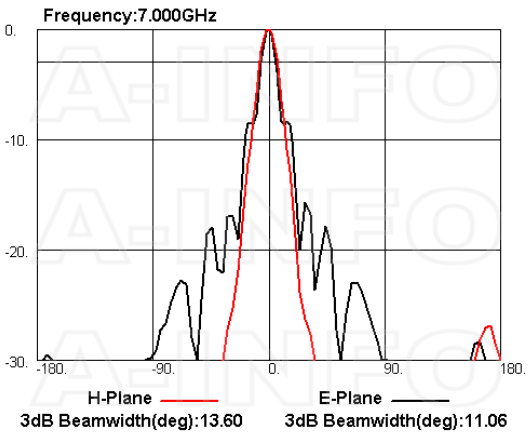

Frequency:4.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):18.88
3dB Beamwidth(deg):16.83

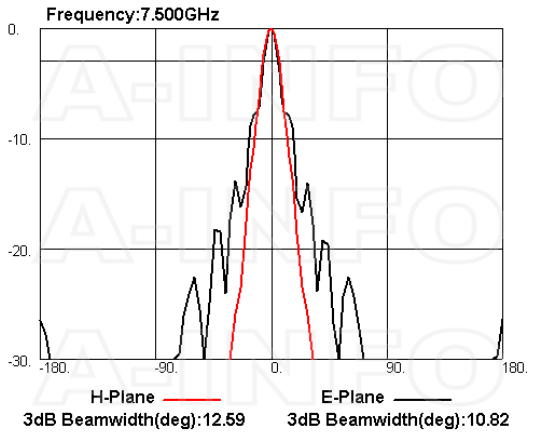

Frequency:5.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):18.52
3dB Beamwidth(deg):16.03

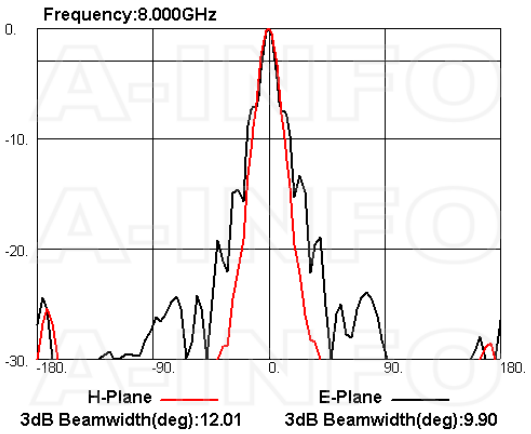

Frequency:5.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):16.73
3dB Beamwidth(deg):14.09

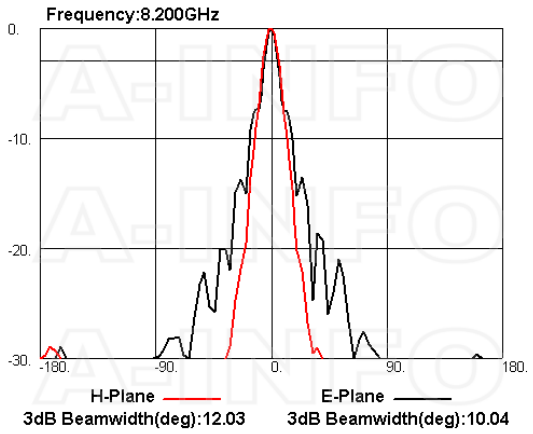

Frequency:6.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):16.15
3dB Beamwidth(deg):13.14


Frequency:6.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):14.50
3dB Beamwidth(deg):12.38


Frequency:7.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):13.60
3dB Beamwidth(deg):11.06







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-3582-20-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 20dB Gain N Type Female

LB-3582-20-C-SF Multi Octave Horn Antenna 3.5-8.2GHz 20dB Gain SMA Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-3582-20-a-multi-octave-horn-antenna-3-5-8-2-ghz-20db-gain-fpwrd350d24 Data subject to change without notice. 	● Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com	● Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670