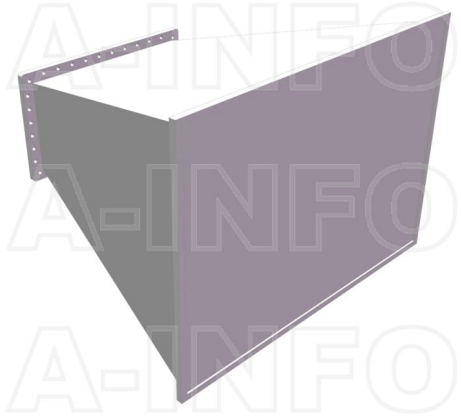




LB-2300-10-ASPO Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 0.32GHz to 0.49GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-2300-10-ASPO
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Description

Standard Gain Horn Antenna LB-2300-10-ASPO, operating from 0.32 to 0.49GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP3 output. The model LB-2300-10-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 standard gain horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

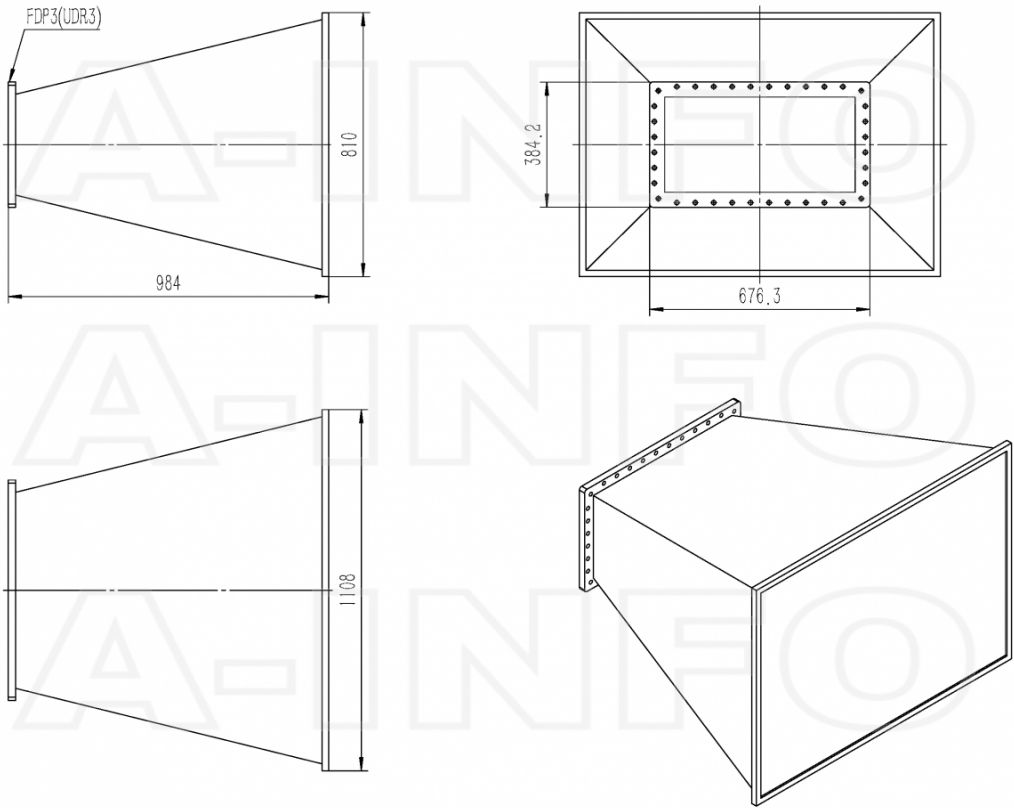
Electrical Specification		Interface	
Frequency, Min (GHz)	0.32	Output Type	Waveguide
Frequency, Max (GHz)	0.49	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR2300	Flange Designation	FDP3(UDR3)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	50	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	46	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	30	Size, W (mm)	1108
VSWR, Typ	1.15:1	Size, H (mm)	810
		Size, L (mm)	984
		Weight, (kg)	47.5

Additional Information

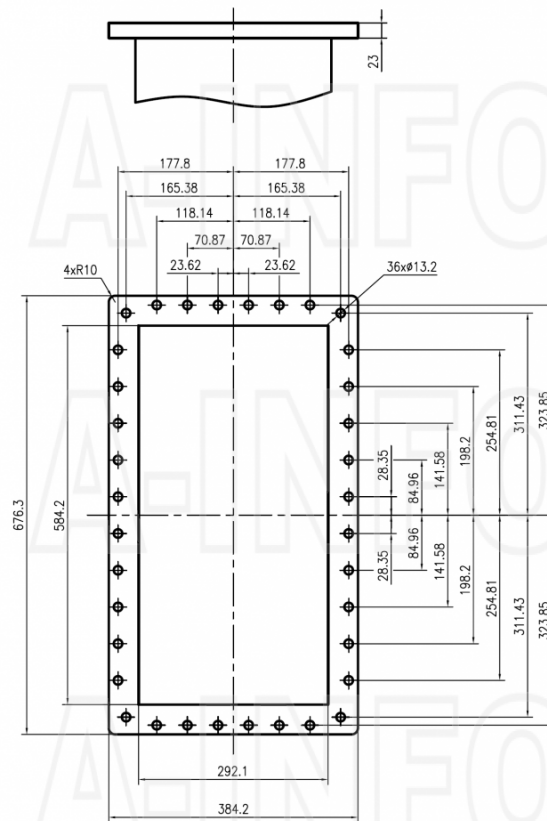
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP3 Output with Radome (Option, P/N: LB-2300-10-ASPO, Outdoor Application)



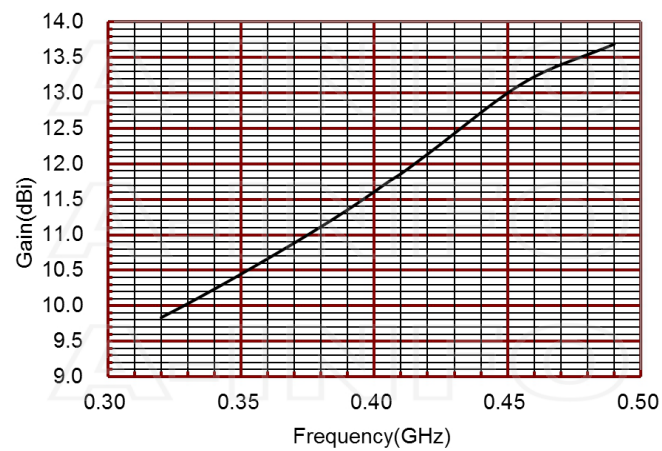
Flange Drawing



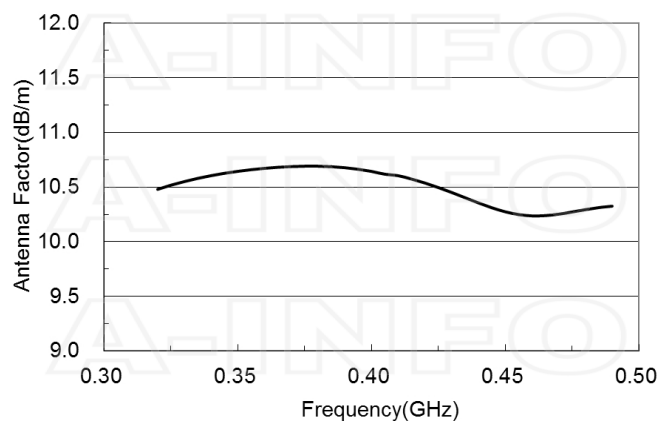
FDP3

Typical Test Results

Gain



Antenna Factor



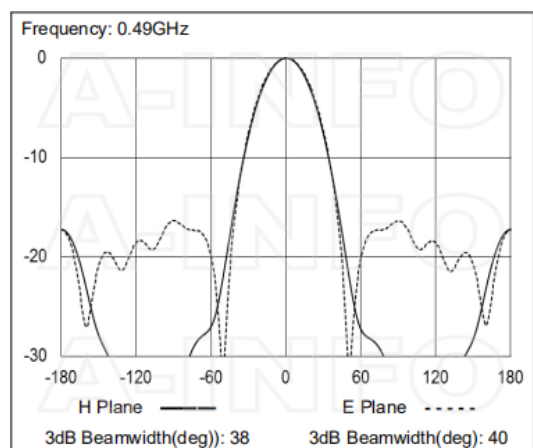
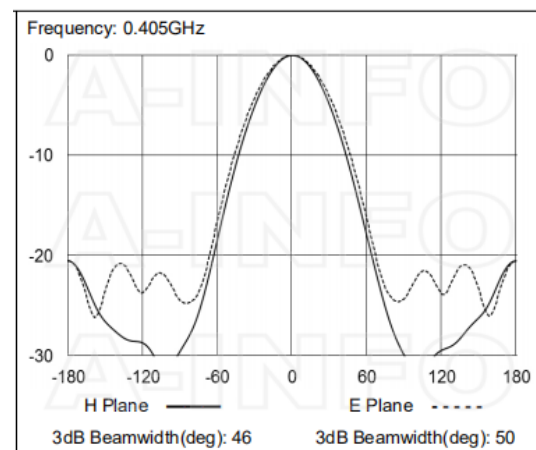
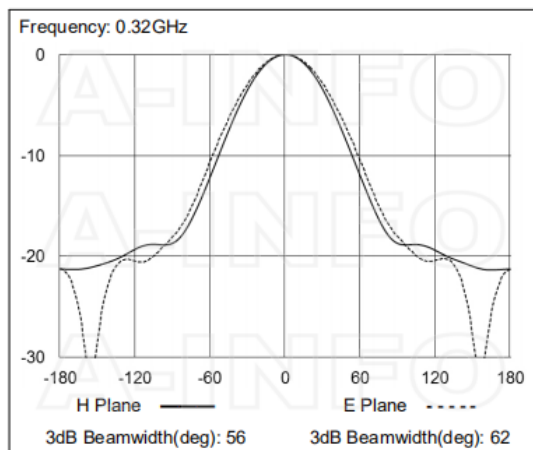
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
0.320	9.83	10.48		0.410	11.86	10.60
0.325	9.93	10.52		0.415	12.00	10.57
0.330	10.03	10.55		0.420	12.14	10.54
0.335	10.13	10.58		0.425	12.28	10.50
0.340	10.24	10.60		0.430	12.43	10.45
0.345	10.34	10.63		0.435	12.58	10.40
0.350	10.45	10.64		0.440	12.72	10.36
0.355	10.56	10.66		0.445	12.87	10.31
0.360	10.66	10.67		0.450	13.00	10.27
0.365	10.77	10.68		0.455	13.12	10.25
0.370	10.89	10.69		0.460	13.23	10.24
0.375	11.00	10.69		0.465	13.32	10.24
0.380	11.11	10.69		0.470	13.40	10.25
0.385	11.23	10.69		0.475	13.47	10.27
0.390	11.35	10.68		0.480	13.54	10.29
0.395	11.48	10.66		0.485	13.61	10.31
0.400	11.61	10.64		0.490	13.69	10.33
0.405	11.74	10.62				

VSWR



Pattern



Related Products



2300WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 0.32-0.49GHz WR2300 to N Type Female



2300WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 0.32-0.49GHz WR2300 to N Type Male

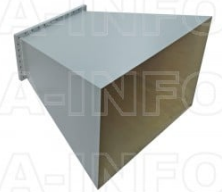


2300WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 0.32-0.49GHz WR2300 to SMA Female



2300WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 0.32-0.49GHz WR2300 to 7/16 DIN Female

Similar Products



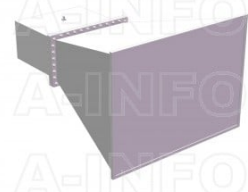
LB-2300-10-A Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain Rectangular Waveguide Interface



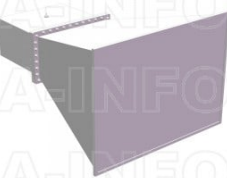
LB-2300-10-C-NF Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain N Type Female



LB-2300-10-C-SF Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain SMA Female



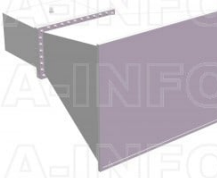
LB-2300-10-C-NFSPO Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain N Type Female



LB-2300-10-C-SFSPO Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain SMA Female



LB-2300-10-C-7/16F Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain 7/16(DIN) Female



LB-2300-10-C-7/16FSPO Standard Gain Horn Antenna 0.32-0.49GHz 10dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-2300-10-aspo-standard-gain-horn-antenna-0-32-0-49-ghz-10db-gain-fdp3 Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	● Contact Us Address:dd 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
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