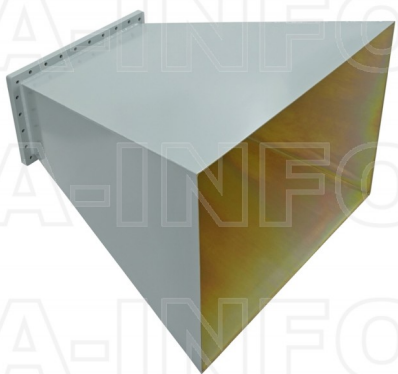


**LB-2100-10-A Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 0.35GHz to 0.53GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-2100-10-A
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Description

Standard Gain Horn Antenna LB-2100-10-A, operating from 0.35 to 0.53GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP4 output. The model LB-2100-10-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 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

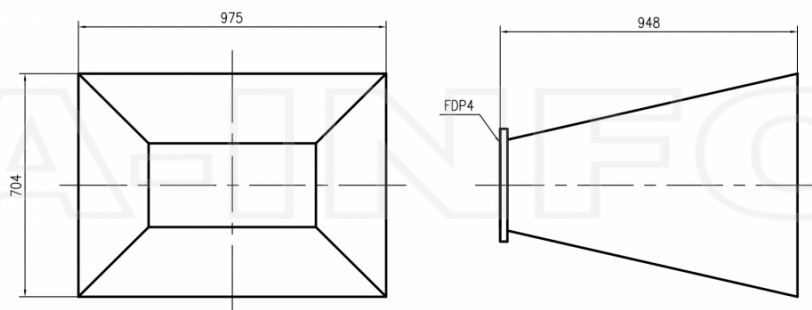
Electrical Specification		Interface	
Frequency, Min (GHz)	0.35	Output Type	Waveguide
Frequency, Max (GHz)	0.53	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR2100	Flange Designation	FDP4(UDR4)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	46	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	50	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	30	Size, W (mm)	975
VSWR, Typ	1.15:1	Size, H (mm)	704
		Size, L (mm)	948
		Weight, (kg)	24

Additional Information

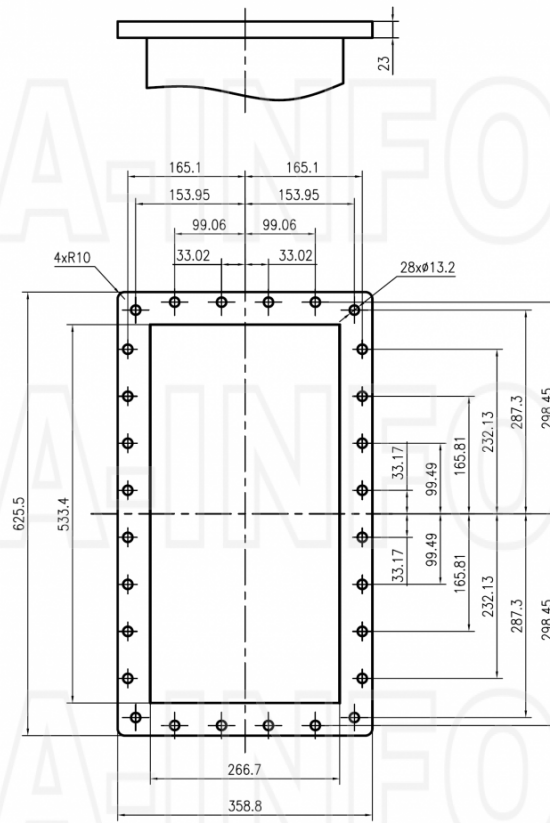
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP4 Output (P/N: LB-2100-10-A)



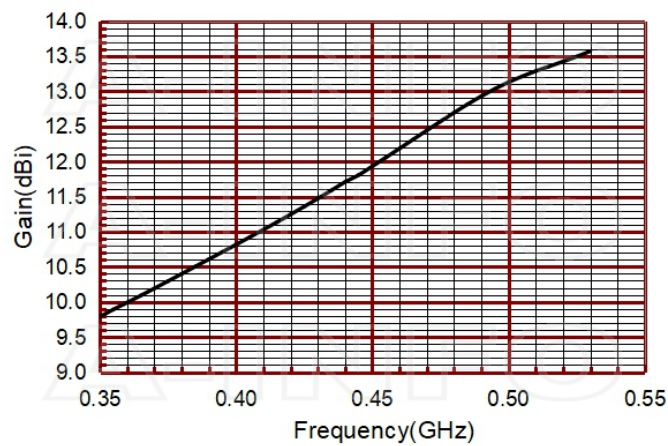
Flange Drawing



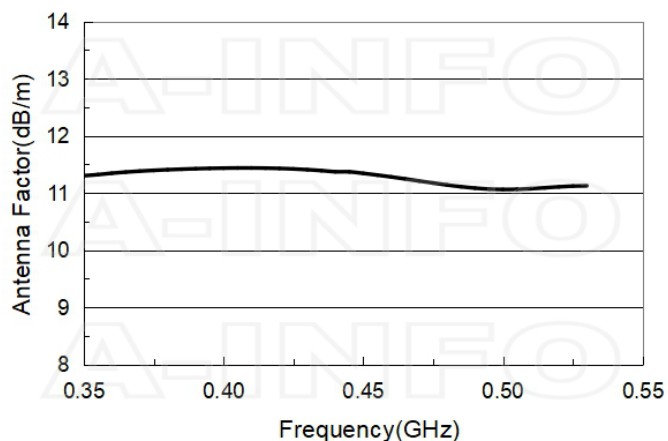
FDP4

Typical Test Results

Gain



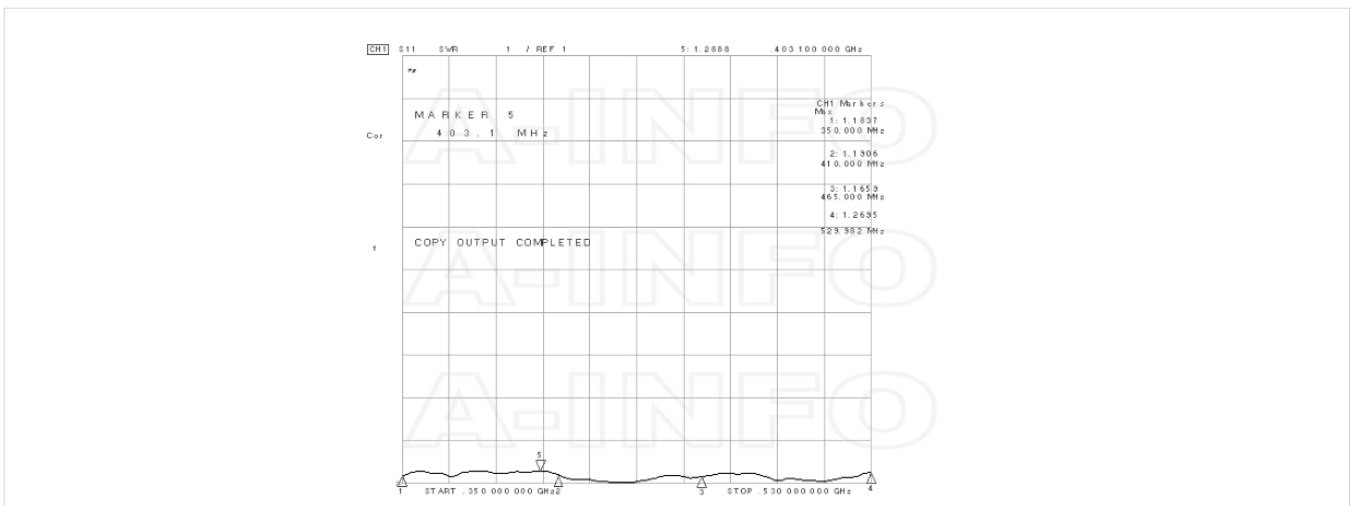
Antenna Factor



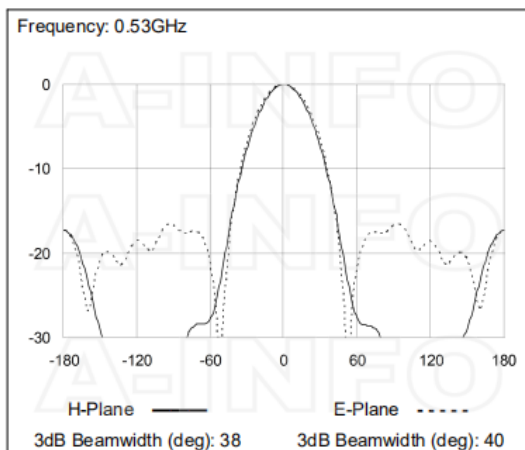
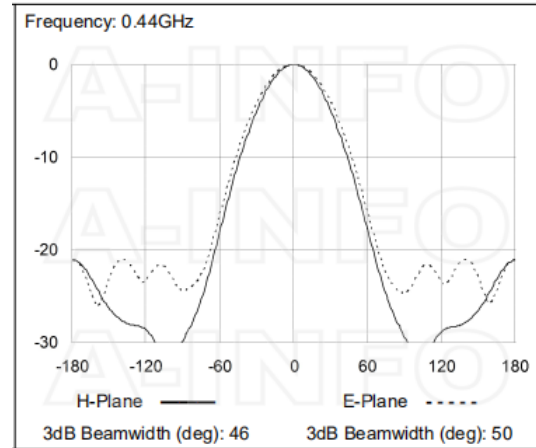
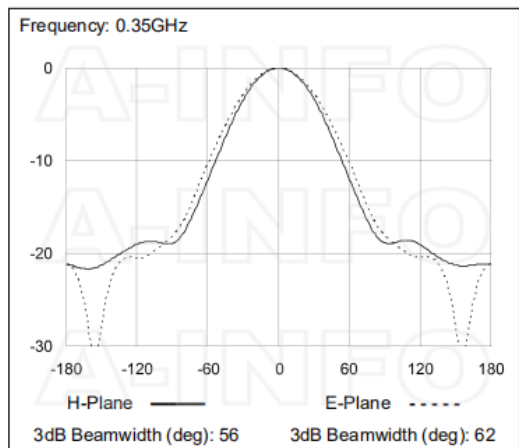
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)		Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
0.350	9.79	11.30		0.445	11.81	11.37
0.355	9.89	11.32		0.450	11.93	11.34
0.360	9.99	11.35		0.455	12.06	11.31
0.365	10.09	11.37		0.460	12.18	11.28
0.370	10.19	11.38		0.465	12.31	11.25
0.375	10.29	11.40		0.470	12.44	11.21
0.380	10.40	11.41		0.475	12.57	11.17
0.385	10.50	11.42		0.480	12.69	11.14
0.390	10.61	11.42		0.485	12.81	11.11
0.395	10.71	11.43		0.490	12.93	11.09
0.400	10.82	11.44		0.495	13.03	11.07
0.405	10.92	11.44		0.500	13.13	11.06
0.410	11.03	11.44		0.505	13.21	11.06
0.415	11.14	11.44		0.510	13.29	11.08
0.420	11.25	11.43		0.515	13.35	11.09
0.425	11.36	11.42		0.520	13.42	11.11
0.430	11.47	11.41		0.525	13.49	11.12
0.435	11.59	11.39		0.530	13.57	11.13
0.44	11.71	11.37				

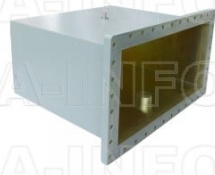
VSWR



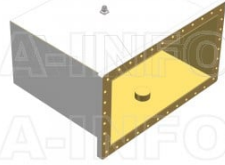
Pattern



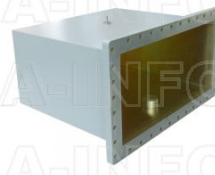
Related Products



2100WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 0.35-0.53GHz WR2100 to N Type Female



2100WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 0.35-0.53GHz WR2100 to N Type Male

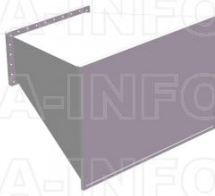


2100WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 0.35-0.53GHz WR2100 to SMA Female



2100WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 0.35-0.53GHz WR2100 to 7/16 DIN Female

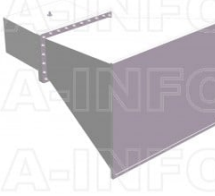
Similar Products



LB-2100-10-ASPO Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain Rectangular Waveguide Interface



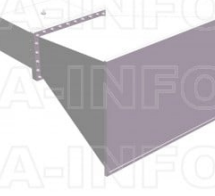
LB-2100-10-C-NF Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain N Type Female



LB-2100-10-C-NFSPO Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain N Type Female



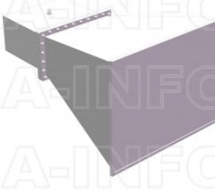
LB-2100-10-C-SF Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain SMA Female



LB-2100-10-C-SFSPO Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain SMA Female



LB-2100-10-C-7/16F Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain 7/16(DIN) Female



LB-2100-10-C-7/16FSPO Standard Gain Horn Antenna 0.35-0.53GHz 10dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-2100-10-a-standard-gain-horn-antenna-0-35-0-53-ghz-10db-gain-fdp4 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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