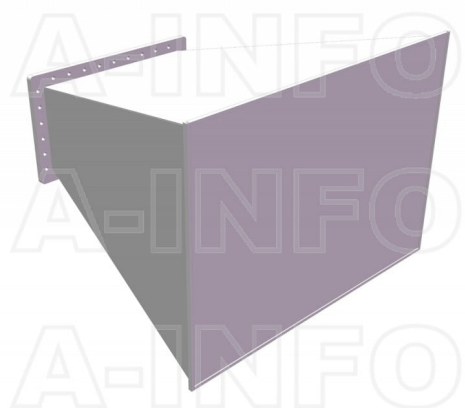




LB-1800-10-ASPO Standard Gain Horn Antenna 0.41-0.62GHz 10dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 0.41GHz to 0.62GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-1800-10-ASPO
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Description

Standard Gain Horn Antenna LB-1800-10-ASPO, operating from 0.41 to 0.62GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP5 output. The model LB-1800-10-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

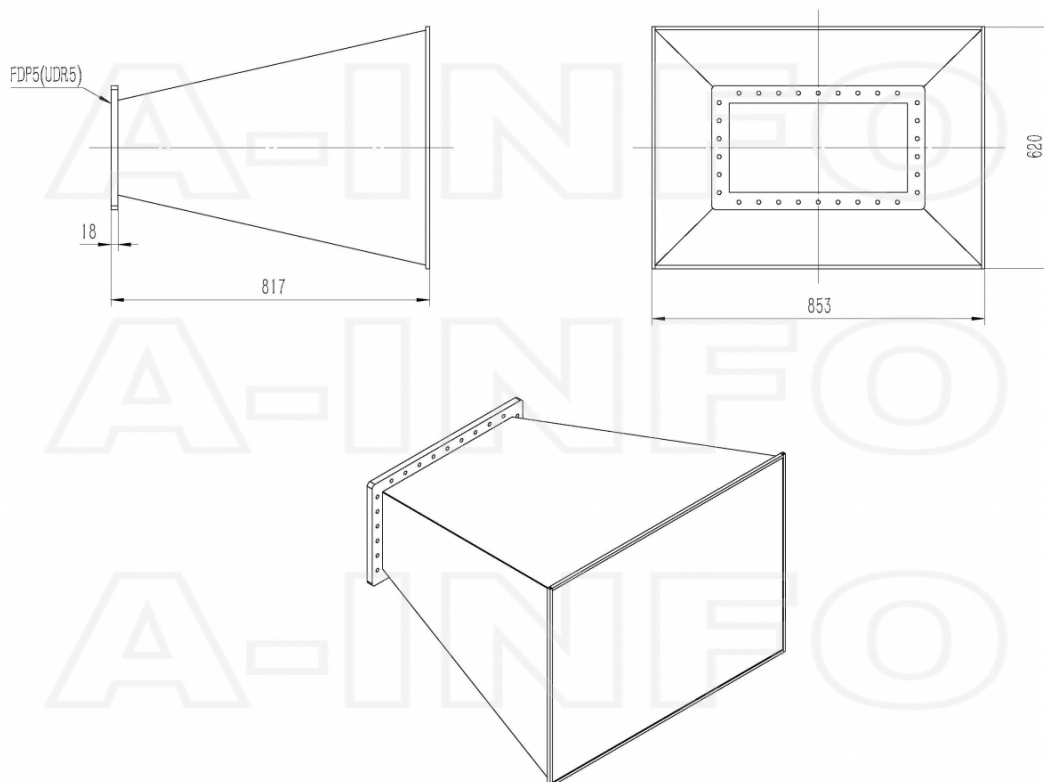
Electrical Specification		Interface	
Frequency, Min (GHz)	0.41	Output Type	Waveguide
Frequency, Max (GHz)	0.62	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR1800	Flange Designation	FDP5(UDR5)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	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)	853
VSWR, Typ	1.15:1	Size, H (mm)	620
		Size, L (mm)	817
		Weight, (kg)	21.5

Additional Information

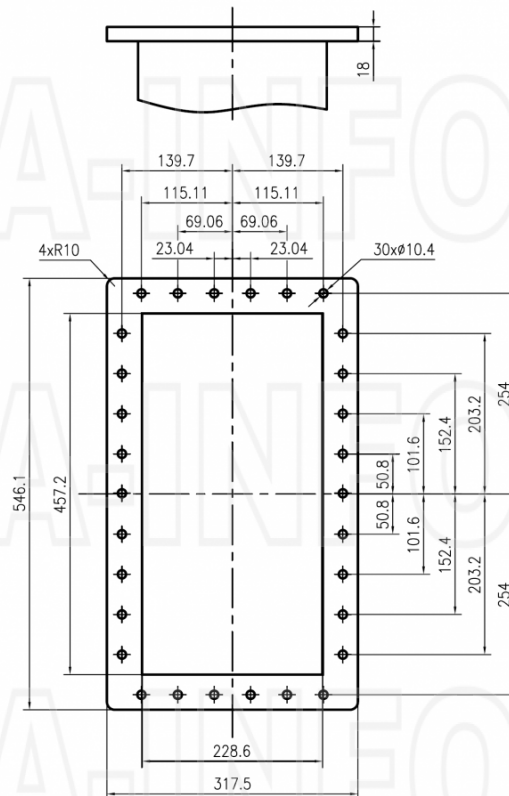
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP5 Output with Radome (Option, P/N: LB-1800-10-ASPO, Outdoor Application)



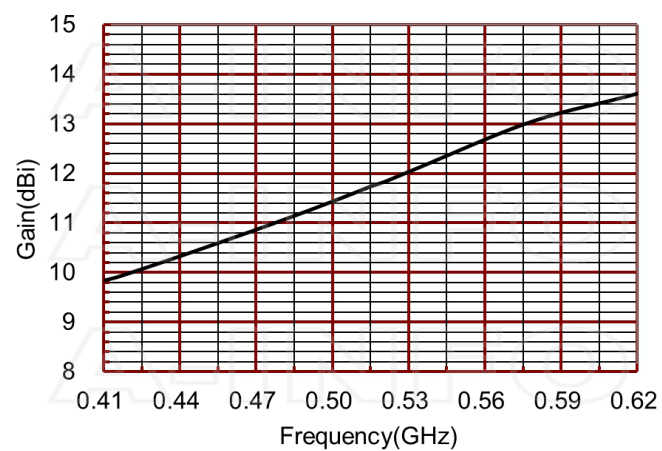
Flange Drawing



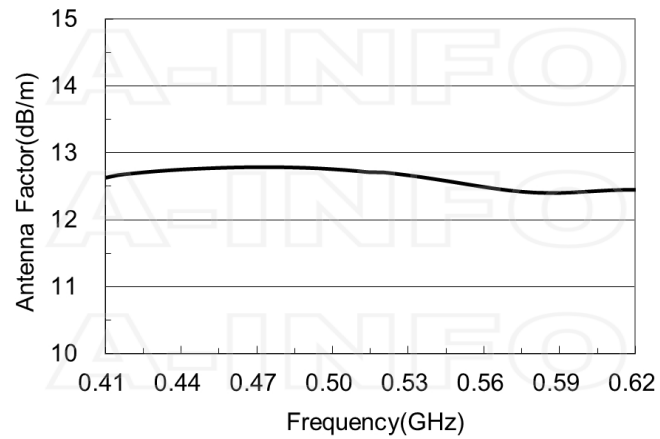
FDP5

Typical Test Results

Gain



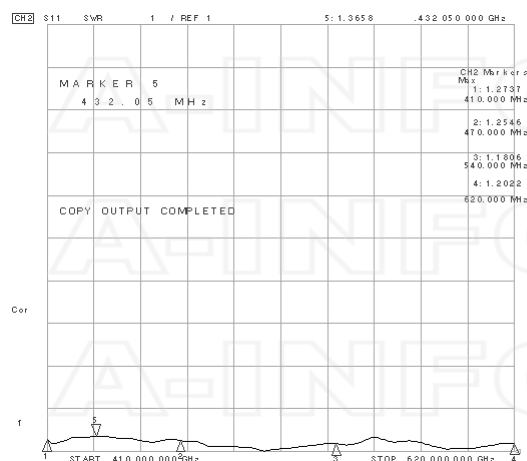
Antenna Factor



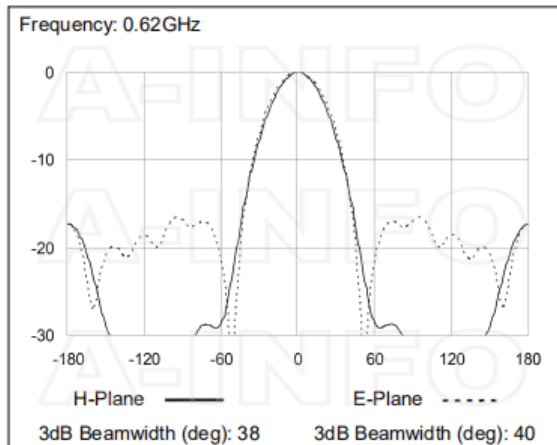
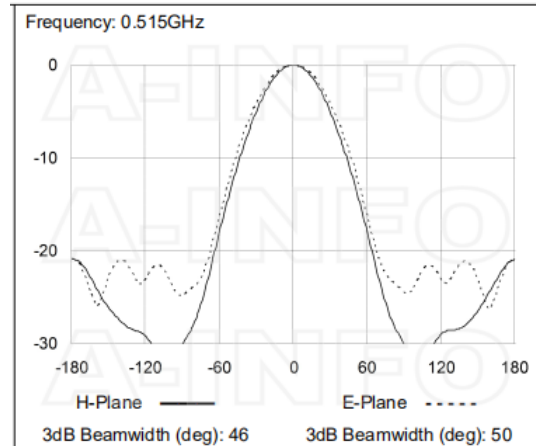
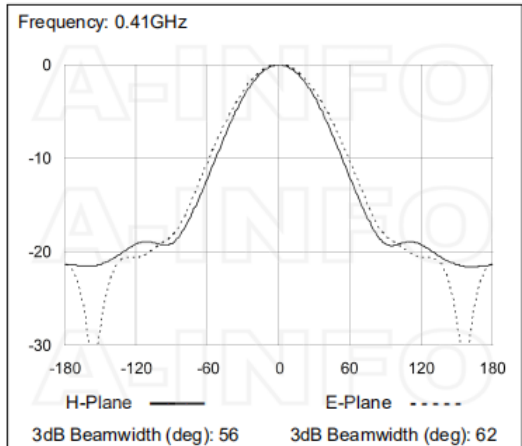
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)	Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
0.41	9.84	12.63	0.52	11.82	12.71
0.42	9.98	12.69	0.53	12.03	12.66
0.43	10.15	12.72	0.54	12.25	12.61
0.44	10.33	12.75	0.55	12.47	12.55
0.45	10.51	12.77	0.56	12.68	12.49
0.46	10.68	12.78	0.57	12.89	12.44
0.47	10.87	12.79	0.58	13.07	12.41
0.48	11.05	12.79	0.59	13.22	12.40
0.49	11.24	12.78	0.60	13.35	12.42
0.50	11.43	12.76	0.61	13.48	12.44
0.51	11.63	12.73	0.62	13.61	12.45

VSWR



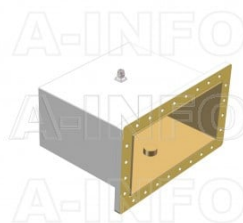
Pattern



Related Products



1800WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 0.41-0.62GHz WR1800 to N Type Female



1800WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 0.41-0.62GHz WR1800 to N Type Male



1800WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 0.41-0.62GHz WR1800 to SMA Female



1800WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 0.41-0.62GHz WR1800 to 7/16 DIN Female

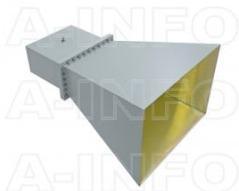


M10x60 Hex_Pack
WR1500-WR1800 Flange
Assembly Pack

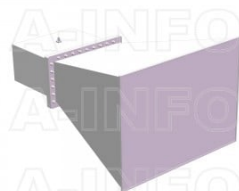
Similar Products



LB-1800-10-A Standard Gain
Horn Antenna 0.41-0.62GHz 10dB
Gain Rectangular Waveguide
Interface



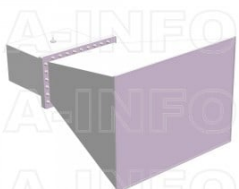
LB-1800-10-C-NF Standard Gain
Horn Antenna 0.41-0.62GHz 10dB
Gain N Type Female



LB-1800-10-C-NFSPO Standard
Gain Horn Antenna 0.41-0.62GHz
10dB Gain N Type Female



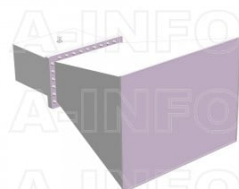
LB-1800-10-C-SF Standard Gain
Horn Antenna 0.41-0.62GHz 10dB
Gain SMA Female



LB-1800-10-C-SFSPO Standard
Gain Horn Antenna 0.41-0.62GHz
10dB Gain SMA Female



LB-1800-10-C-7/16F Standard
Gain Horn Antenna 0.41-0.62GHz
10dB Gain 7/16(DIN) Female



LB-1800-10-C-7/16FSPO
Standard Gain Horn Antenna
0.41-0.62GHz 10dB Gain
7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-1800-10-aspo-standard-gain-horn-antenna-0-41-0-62-ghz-10db-gain-fdp5 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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