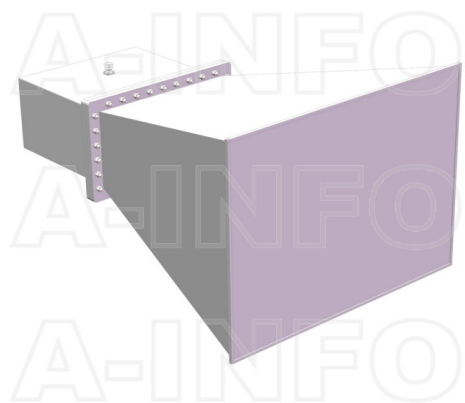




LB-1800-10-C-7/16FSPO Standard Gain Horn Antenna 0.41-0.62GHz
10dB Gain 7/16(DIN) Female

Standard Gain Horn Antenna Operating From 0.41GHz to 0.62GHz With a Nominal 10dB Gain With 7/16(DIN) Female Connector

Product Information

SKU	LB-1800-10-C-7/16FSPO
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Description

Standard Gain Horn Antenna LB-1800-10-C-7/16FSPO, operating from 0.41 to 0.62GHz with a nominal 10dB gain and low VSWR 1.25:1 with 7/16(DIN) Female connector output. The model LB-1800-10-C-7/16FSPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 800W continuously and 3000W peak power. 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

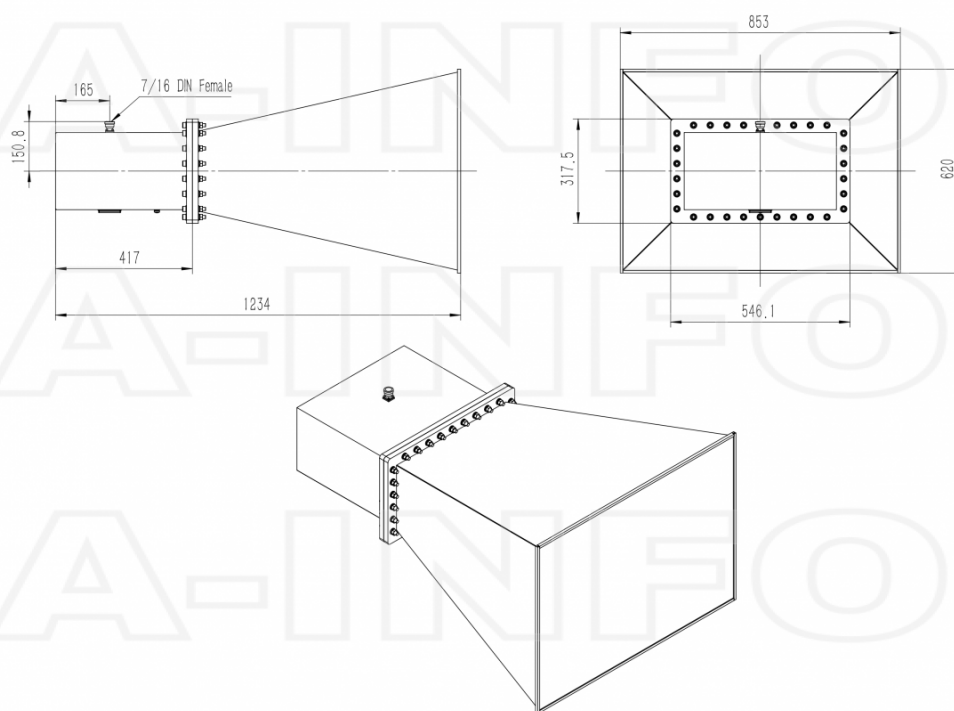
Electrical Specification		Interface	
Frequency, Min (GHz)	0.41	Output Type	Coaxial
Frequency, Max (GHz)	0.62	Connector	7/16 DIN
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR1800	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	46	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	50	Size, W (mm)	853
Cross Pol. Isolation, Typ (dB)	30	Size, H (mm)	620
VSWR, Typ	1.25:1	Size, L (mm)	1234
Impedance, (Ohm)	50	Weight, (kg)	32.5
Power Handling, CW, (W)	800		
Power Handling, Peak, (W)	3000		

Additional Information

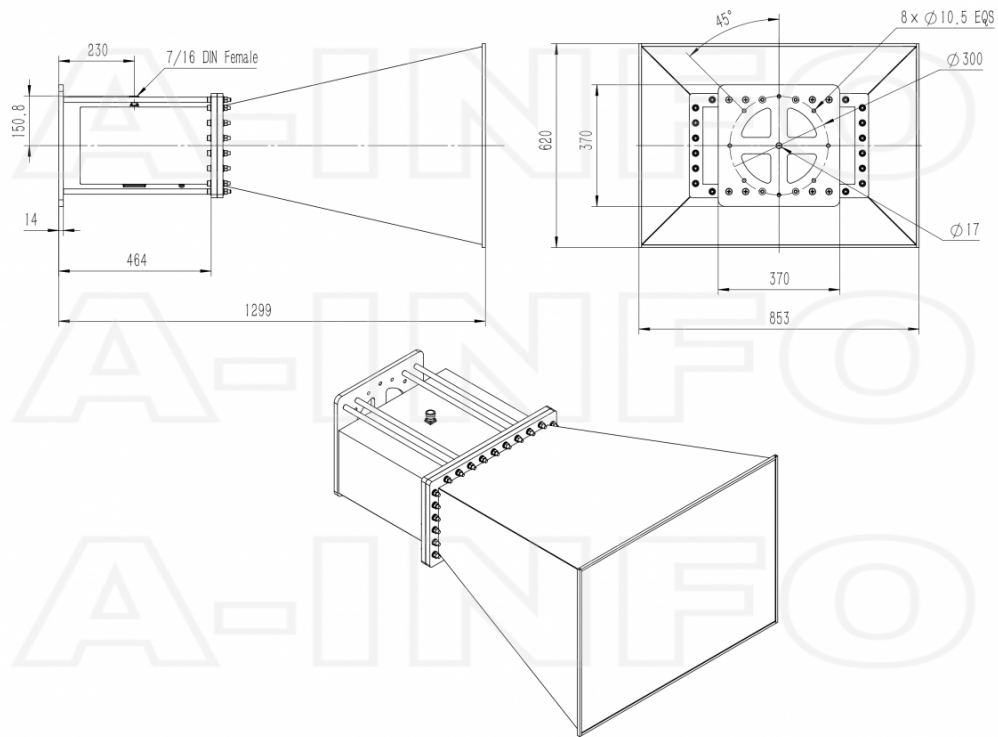
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

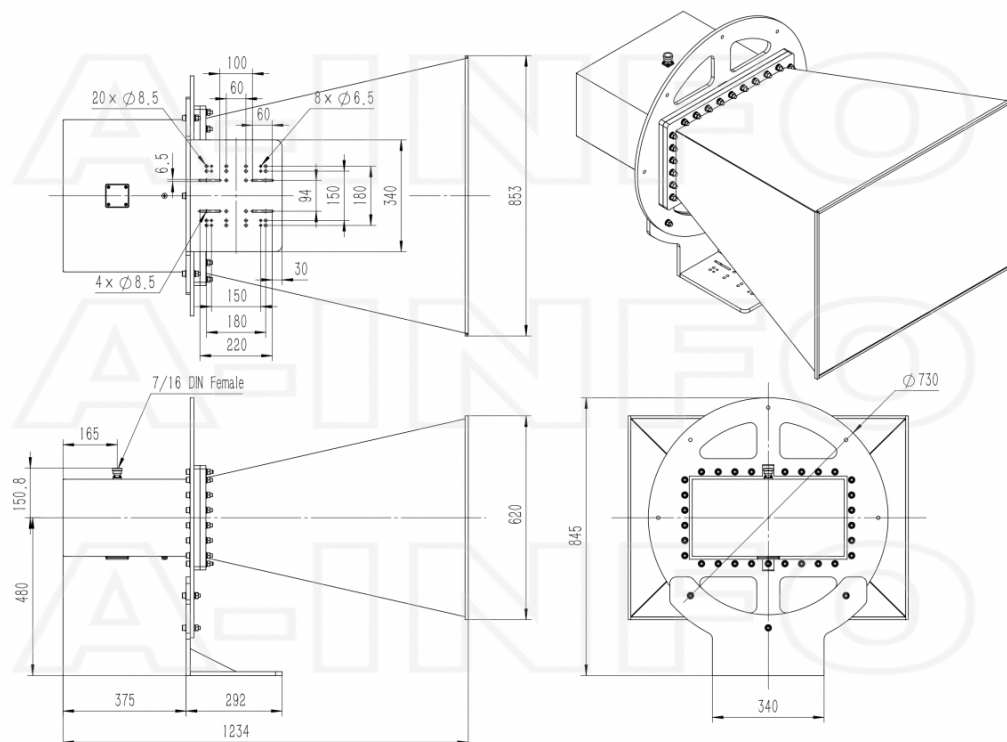
7/16(DIN) Female Output with Radome (Option, P/N: LB-1800-10-C-7/16FSPO, Outdoor Application)



7/16(DIN)-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-1800-10-C-MB & LB-1800-10-C-7/16FSPO, Outdoor Application)

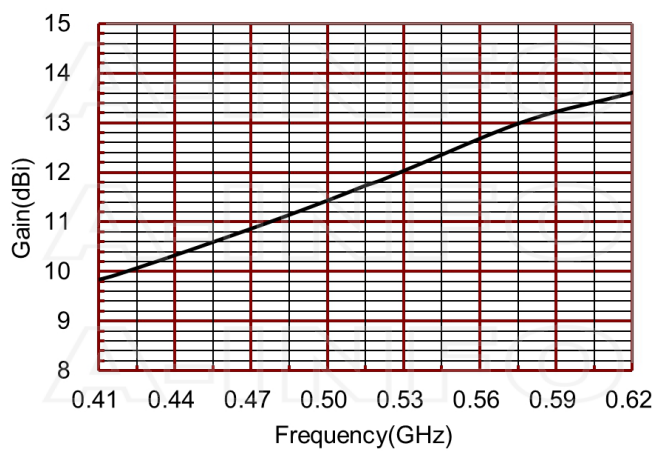


7/16(DIN)-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-1800-10-C-L & LB-1800-10-C-7/16FSPO, Outdoor Application)

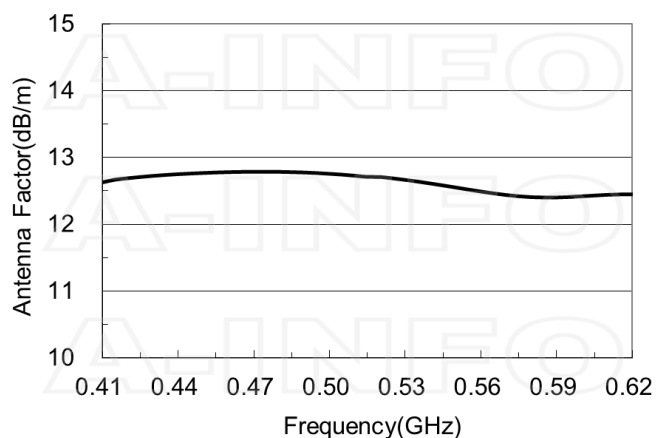


Typical Test Results

Gain



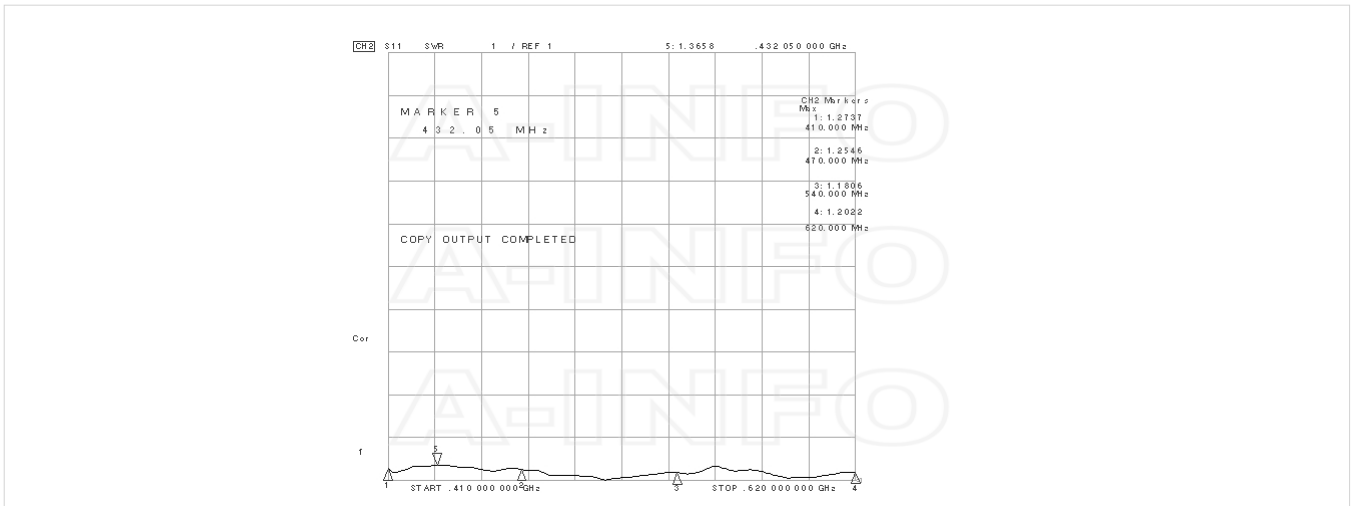
Antenna Factor



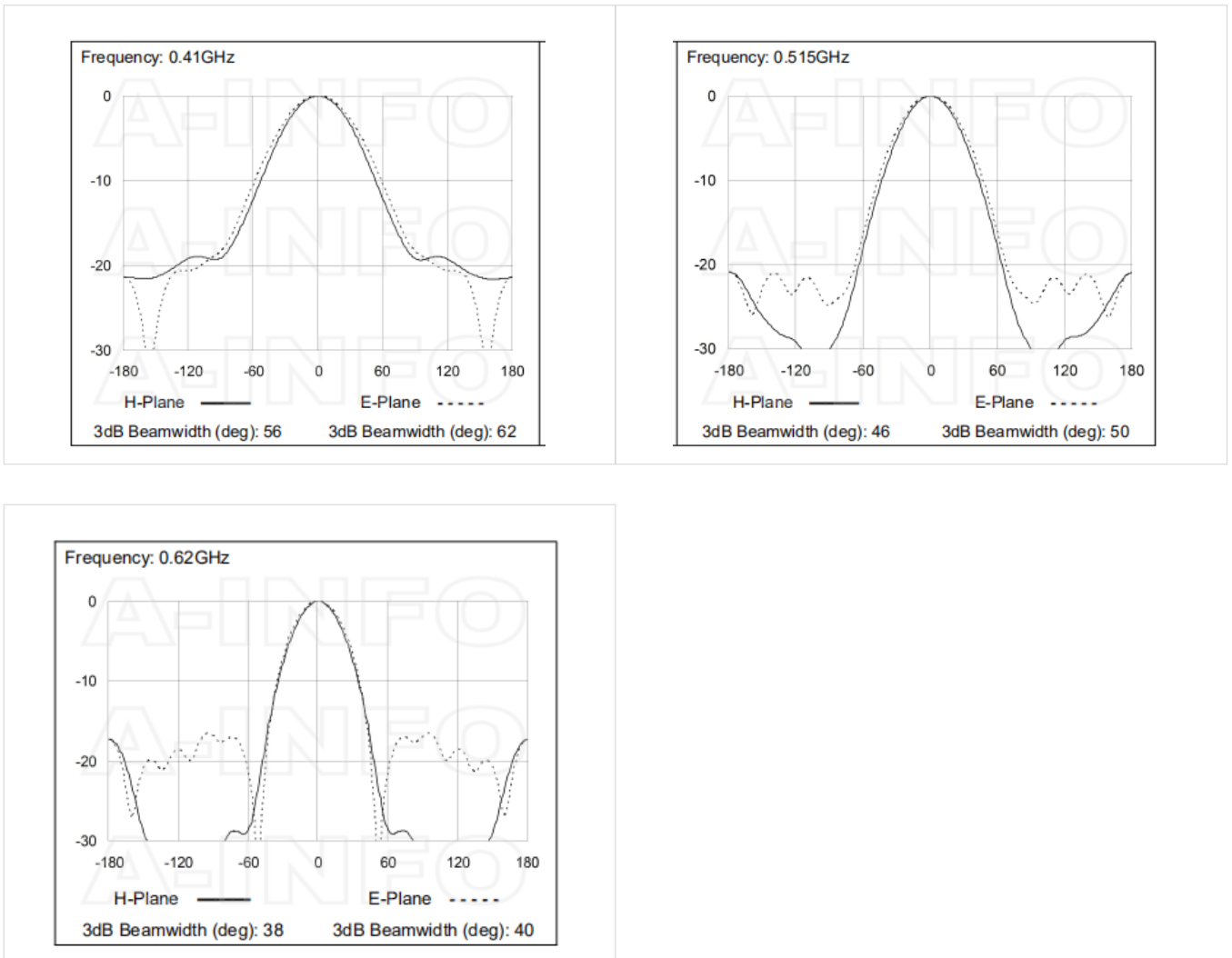
Antenna Factor (Table)

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

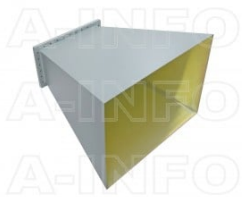


LB-1800-10-C-MB Round Type Mounting Bracket



LB-1800-10-C-L L type mounting bracket

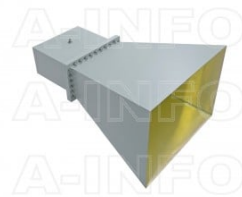
Similar Products



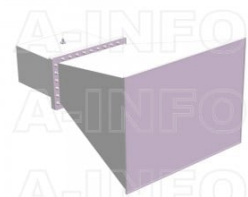
LB-1800-10-A Standard Gain Horn Antenna 0.41-0.62GHz 10dB Gain Rectangular Waveguide Interface



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



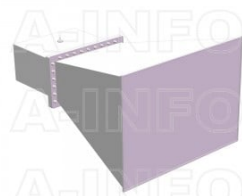
LB-1800-10-C-NF Standard Gain Horn Antenna 0.41-0.62GHz 10dB Gain N Type Female



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

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-1800-10-c-7-16fspo-standard-gain-horn-antenna-0-41-0-62-ghz-10db-gain-7-16-din-female 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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