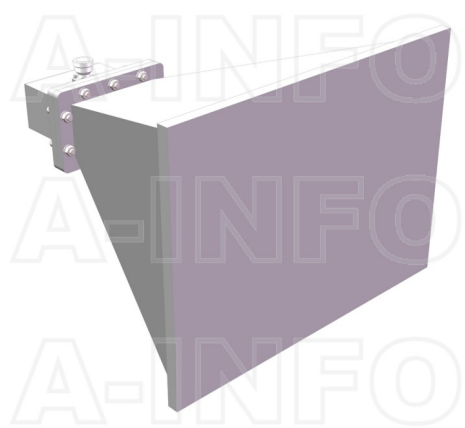




LB-510-15-C-7/16FSPO Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain 7/16(DIN) Female

Standard Gain Horn Antenna Operating From 1.45GHz to 2.2GHz With a Nominal 15dB Gain With 7/16(DIN) Female Connector

Product Information

SKU	LB-510-15-C-7/16FSPO
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Description

Standard Gain Horn Antenna LB-510-15-C-7/16FSPO, operating from 1.45 to 2.2GHz with a nominal 15dB gain and low VSWR 1.25:1 with 7/16(DIN) Female connector output. The model LB-510-15-C-7/16FSPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 500W 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

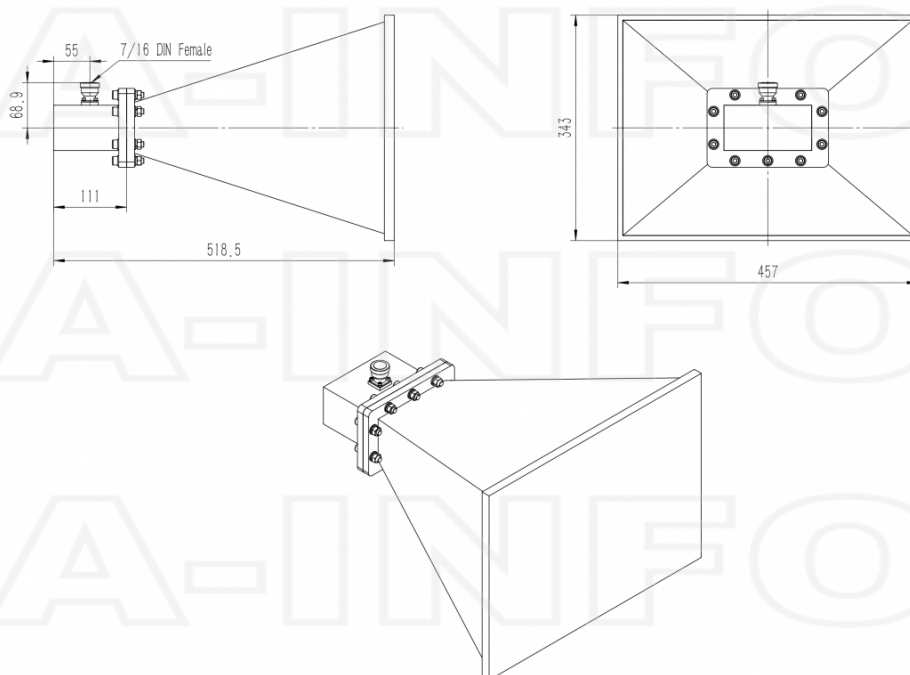
Electrical Specification		Interface	
Frequency, Min (GHz)	1.45	Output Type	Coaxial
Frequency, Max (GHz)	2.2	Connector	7/16 DIN
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR510	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	27	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Size, W (mm)	457
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	343
VSWR, Typ	1.25:1	Size, L (mm)	518.5
Impedance, (Ohm)	50	Weight, (kg)	4.6
Power Handling, CW, (W)	500		
Power Handling, Peak, (W)	3000		

Additional Information

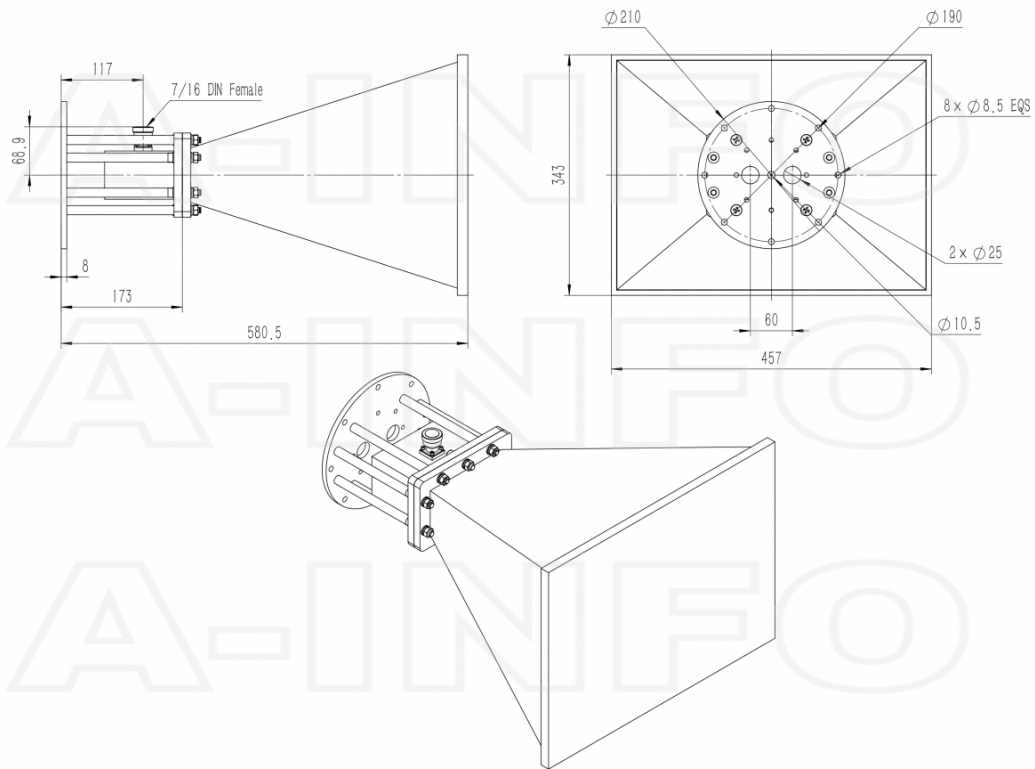
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

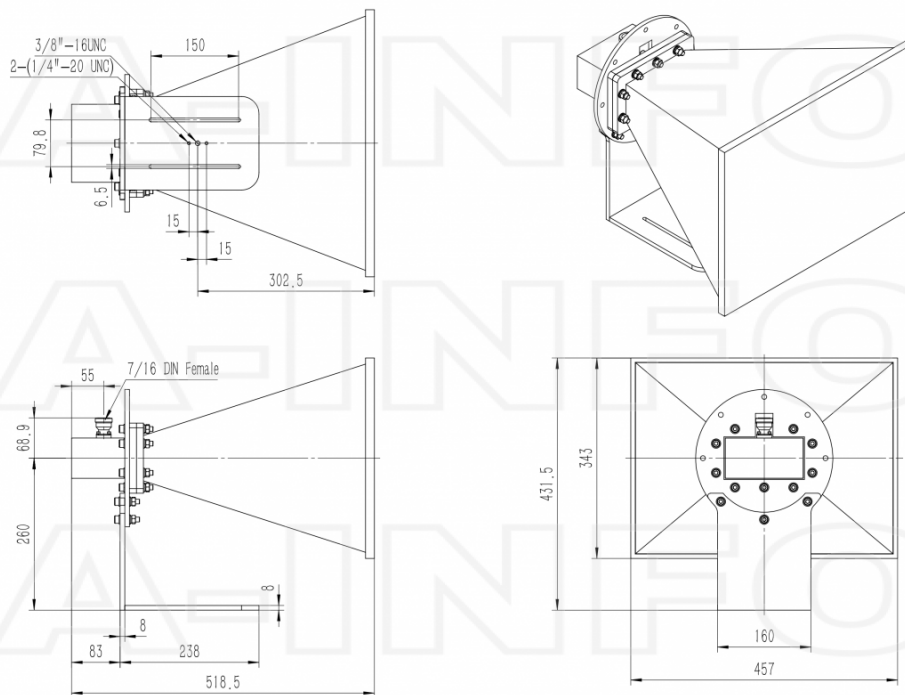
7/16(DIN) Female Output with Radome (Option, P/N: LB-510-15-C-7/16FSPO, Outdoor Application)



7/16(DIN) Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-510-10-C-MB & LB-510-15-C-7/16FSPO, Outdoor Application)

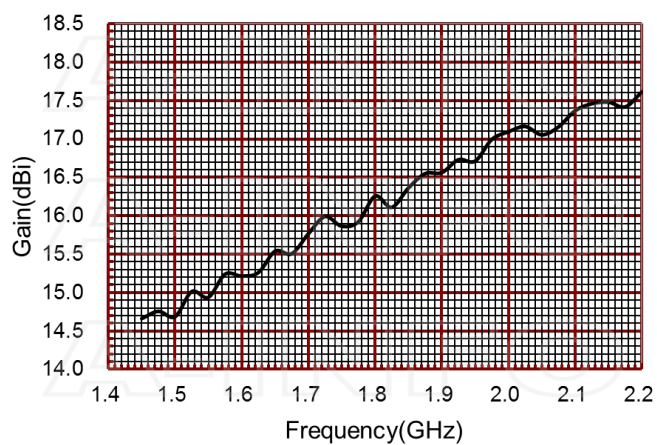


7/16(DIN) Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-510-10-C-L & LB-510-15-C-7/16FSPO, Outdoor Application)

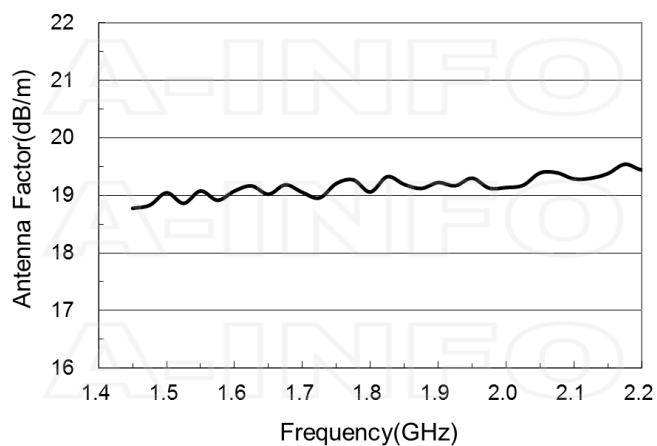


Typical Test Results

Gain



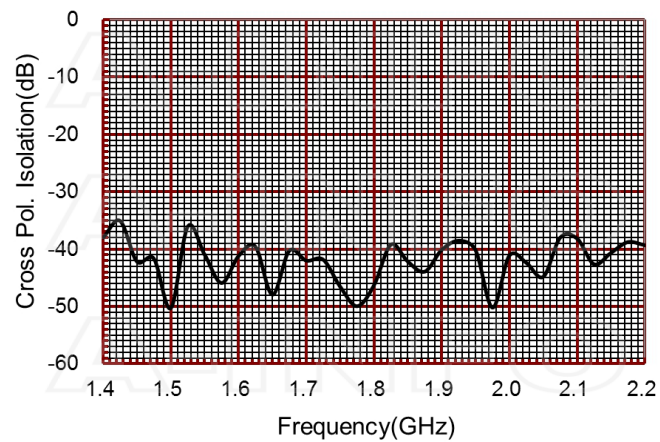
Antenna Factor



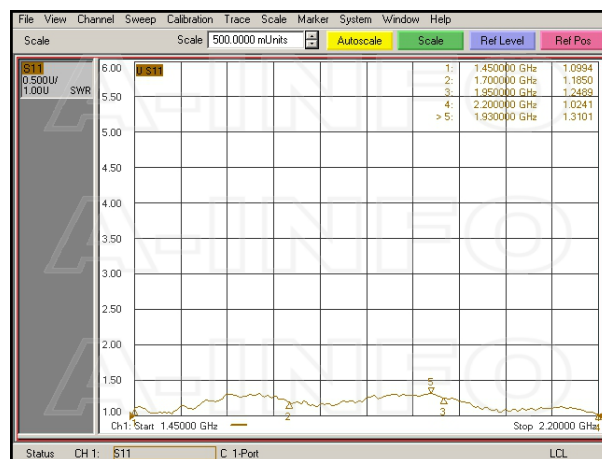
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
1.45	14.66	18.78
1.50	14.69	19.05
1.60	15.22	19.08
1.70	15.77	19.05
1.80	16.26	19.06
1.90	16.56	19.22
2.00	17.09	19.14
2.10	17.37	19.29
2.20	17.61	19.44

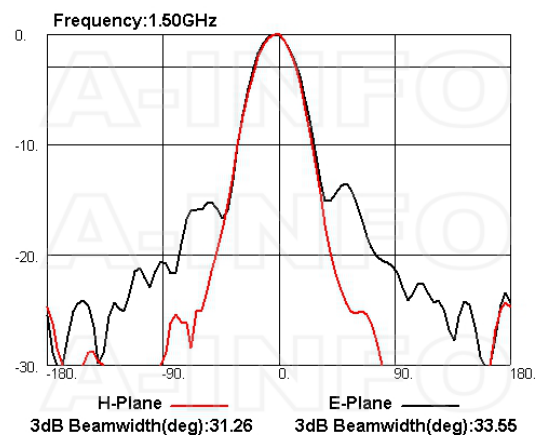
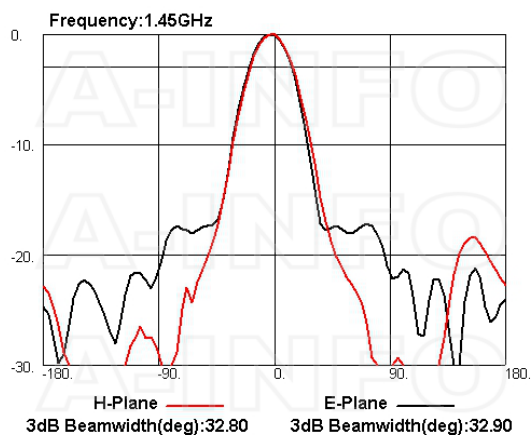
Cross Polarization Isolation

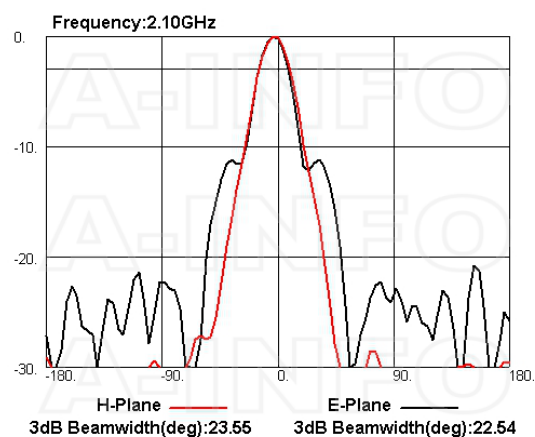
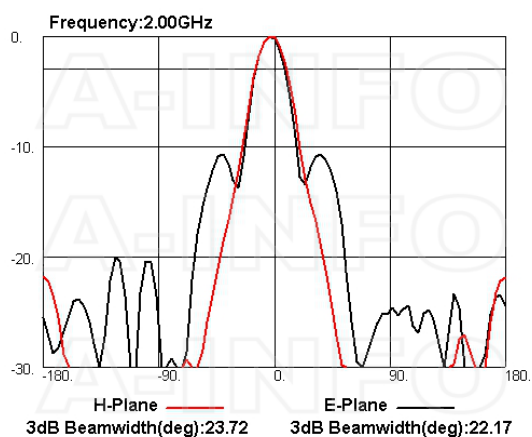
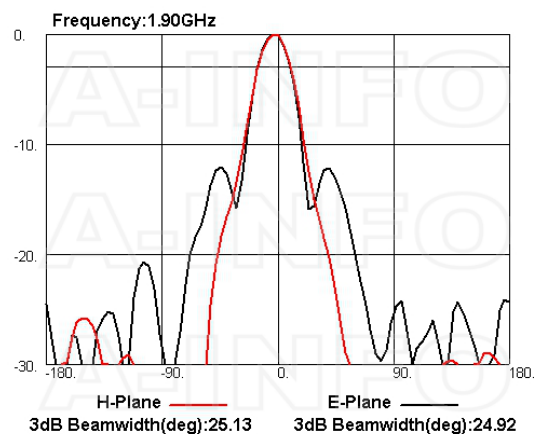
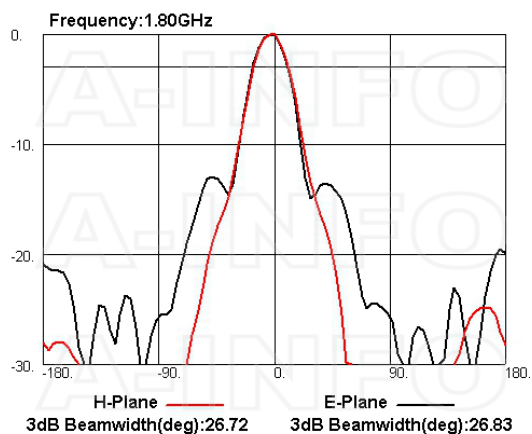
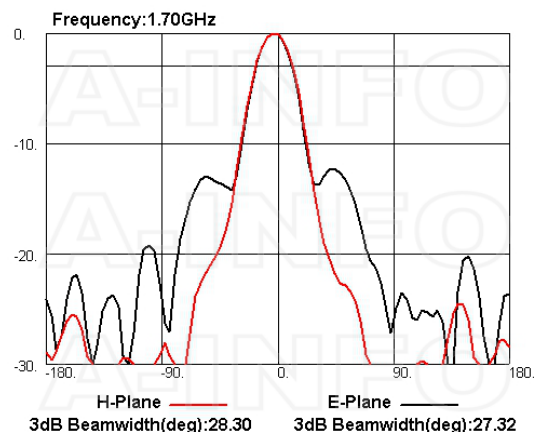
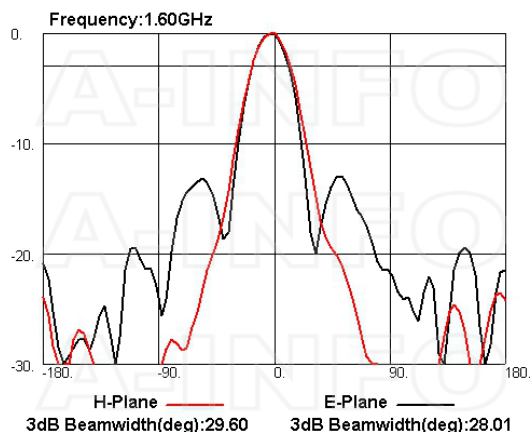


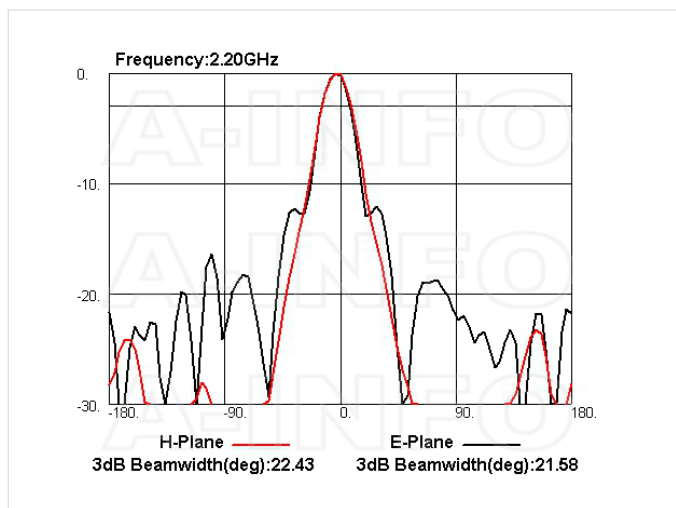
VSWR



Pattern







Related Products



LB-510-10-C-MB Round Type Mounting Bracket

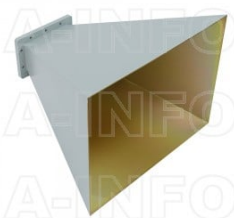


LB-510-10-C-L L type mounting bracket



M8x40 Hex_Pack WR510-WR650 Flange Assembly Pack

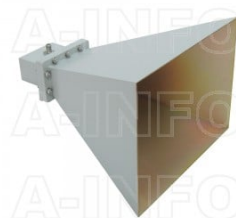
Similar Products



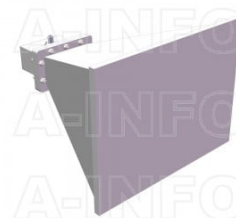
LB-510-15-A Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain Rectangular Waveguide Interface



LB-510-15-ASPO Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain Rectangular Waveguide Interface



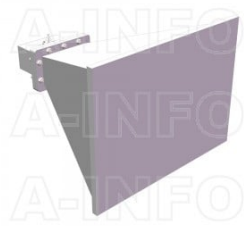
LB-510-15-C-NF Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain N Type Female



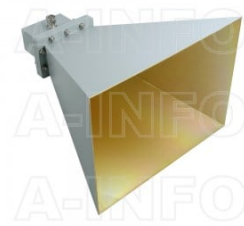
LB-510-15-C-NFSPO Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain N Type Female



LB-510-15-C-SF Standard Gain
Horn Antenna 1.45-2.2GHz 15dB
Gain SMA Female



LB-510-15-C-SFSP0 Standard
Gain Horn Antenna 1.45-2.2GHz
15dB Gain SMA Female



LB-510-15-C-7/16F Standard
Gain Horn Antenna 1.45-2.2GHz
15dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-510-15-c-7-16fsp0-standard-gain-horn-antenna-1-45-2-2-ghz-15db-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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