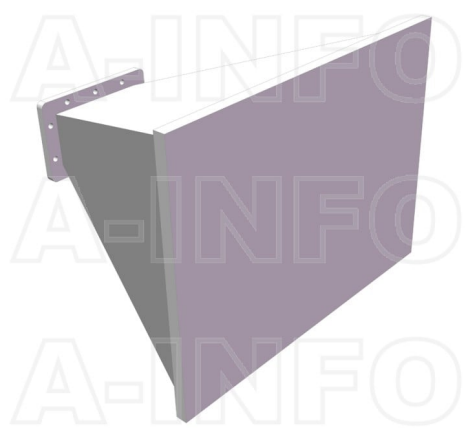




LB-510-15-ASPO Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 1.45GHz to 2.2GHz With a Nominal 15dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-510-15-ASPO
-----	----------------

Description

Standard Gain Horn Antenna LB-510-15-ASPO, operating from 1.45 to 2.2GHz with a nominal 15dB gain and low VSWR 1.15:1 with FDP18 output. The model LB-510-15-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

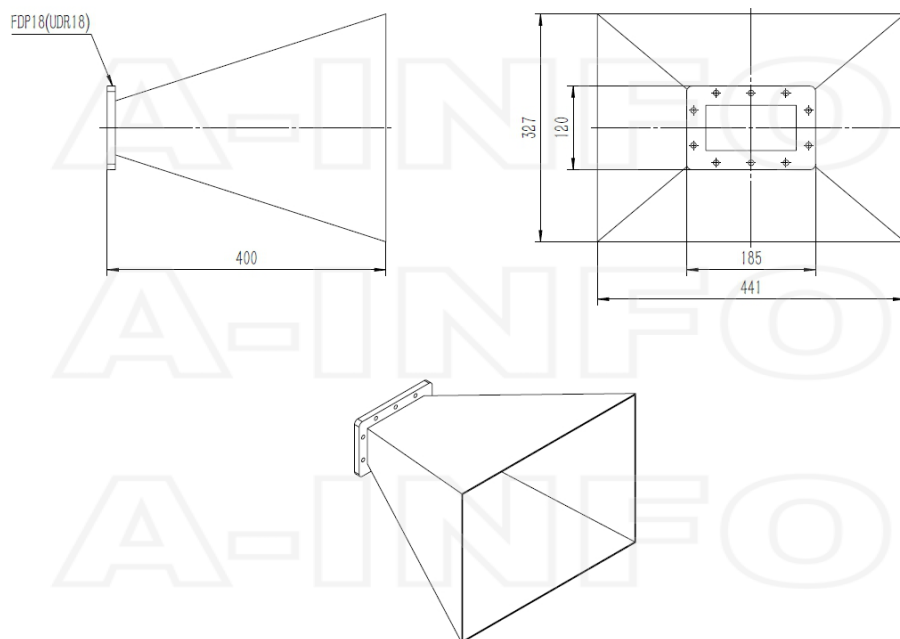
Electrical Specification		Interface	
Frequency, Min (GHz)	1.45	Output Type	Waveguide
Frequency, Max (GHz)	2.2	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR510	Flange Designation	FDP18(UDR18)
Gain, Typ (dBi)	15	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	27	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	40	Size, W (mm)	457
VSWR, Typ	1.15:1	Size, H (mm)	343
		Size, L (mm)	407.5
		Weight, (kg)	3.7

Additional Information

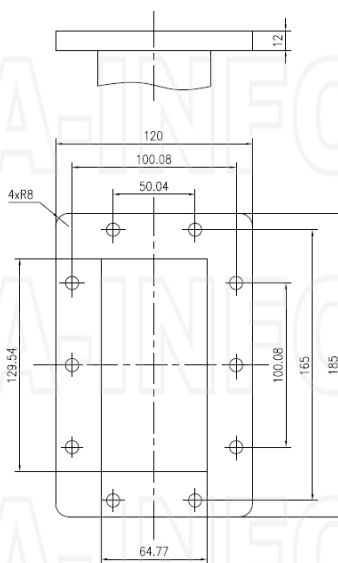
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	--	--------------	---

Outline Drawing

FDP18 Output with Radome (Option, P/N: LB-510-15-ASPO, Outdoor Application)



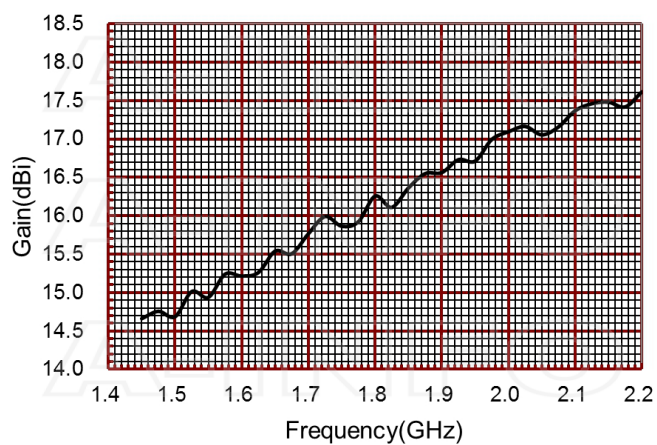
Flange Drawing



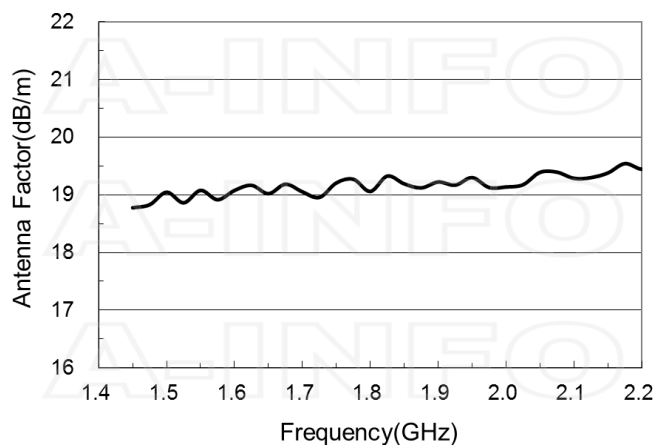
FDP18

Typical Test Results

Gain



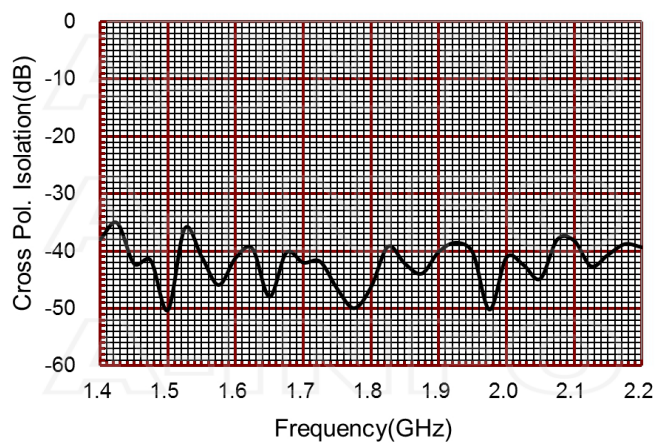
Antenna Factor



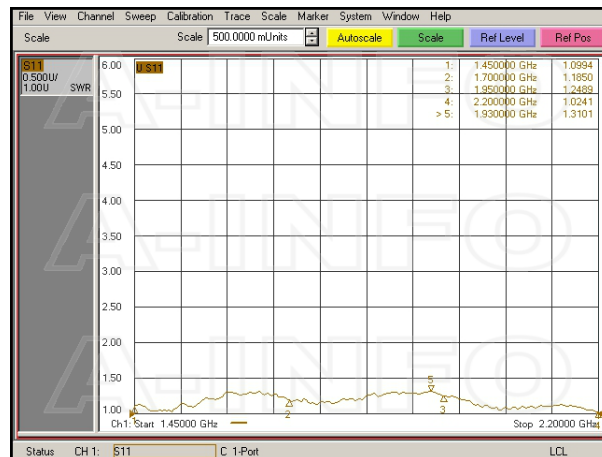
Antenna Factor (Table)

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

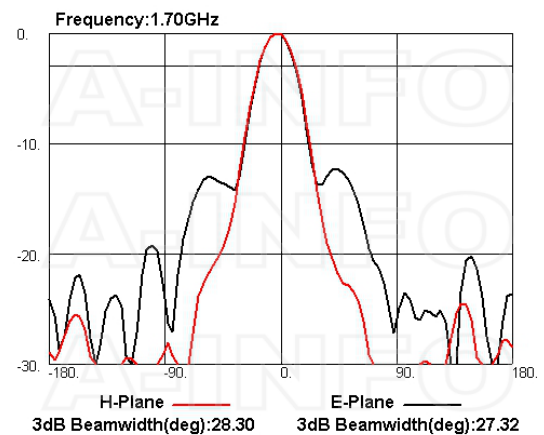
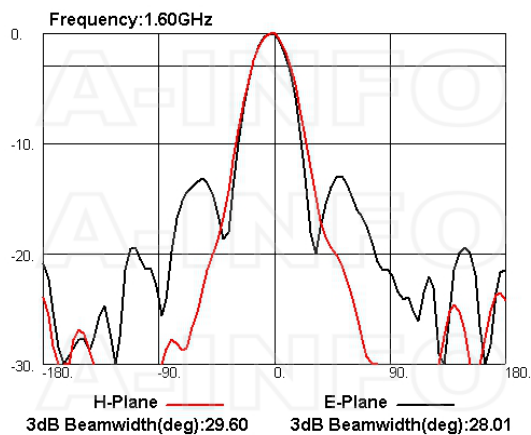
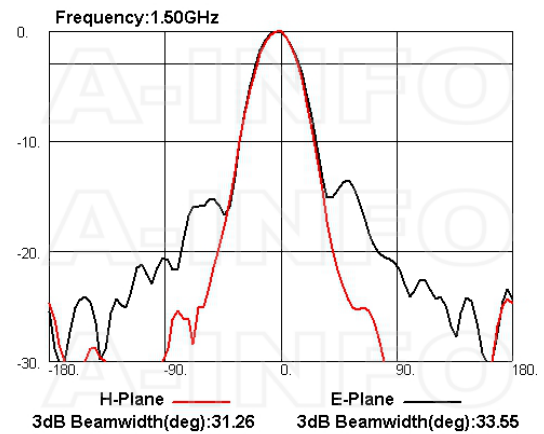
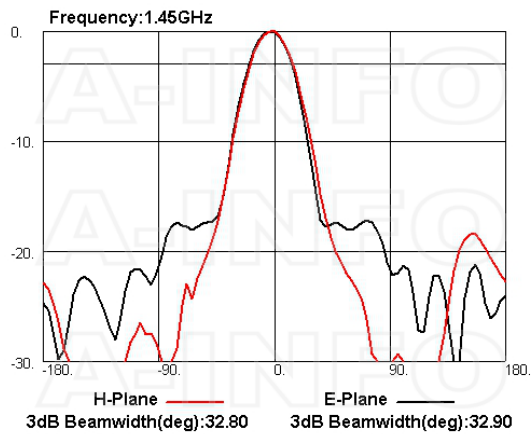
Cross Polarization Isolation

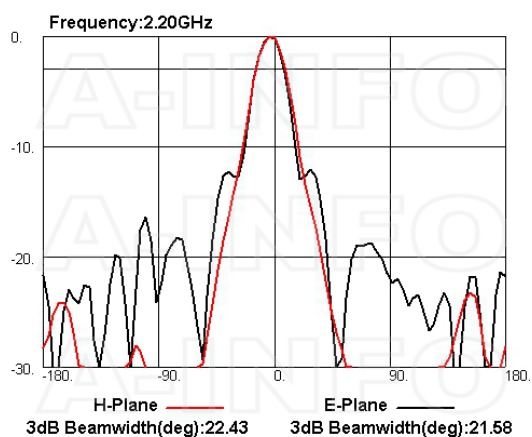
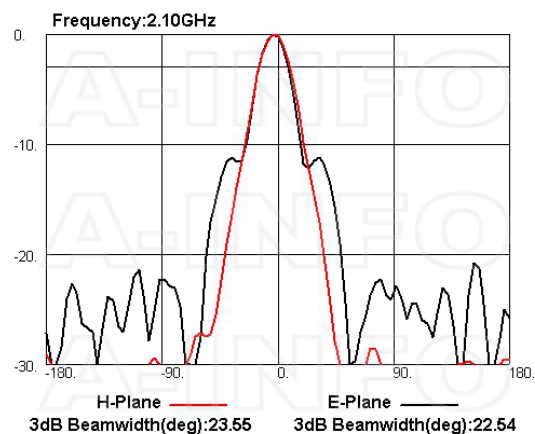
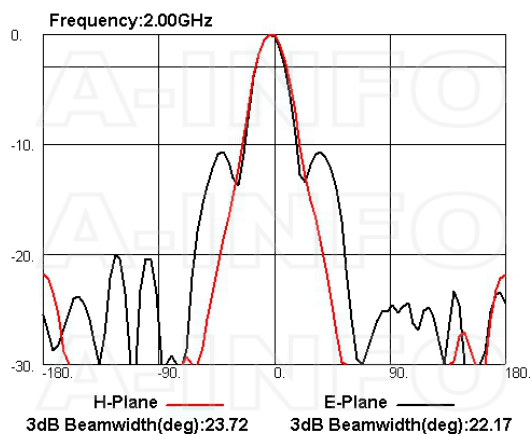
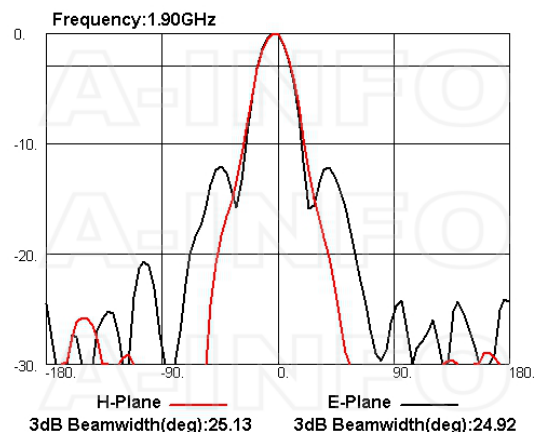
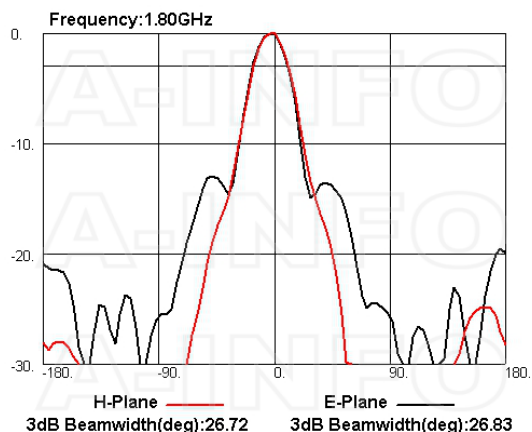


VSWR



Pattern





Related Products



510WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 1.45-2.2GHz WR510 to N Type Female



510WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 1.45-2.2GHz WR510 to N Type Male



510WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 1.45-2.2GHz WR510 to SMA Female



510WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 1.45-2.2GHz WR510 to SMA Male

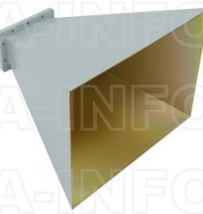


510WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 1.45-2.2GHz WR510 to 7/16 DIN Female

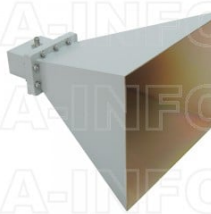


M8x40 Hex_Pack WR510-WR650 Flange Assembly Pack

Similar Products



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



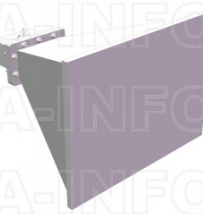
LB-510-15-C-NF Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain N Type Female



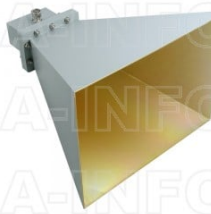
LB-510-15-C-NFSPO Standard Gain Horn Antenna 1.45-2.2GHz 15dB Gain N Type Female



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



LB-510-15-C-SFSPO 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



LB-510-15-C-7/16FSPO 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-aspo-standard-gain-horn-antenna-1-45-2-2-ghz-15db-gain-fdp18 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
---	--	---