



LB-112-20-ASPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 7.05GHz to 10GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-112-20-ASPO
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Description

Standard Gain Horn Antenna LB-112-20-ASPO, operating from 7.05 to 10GHz with a nominal 20dB gain and low VSWR 1.15:1 with FBP84 output. The model LB-112-20-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

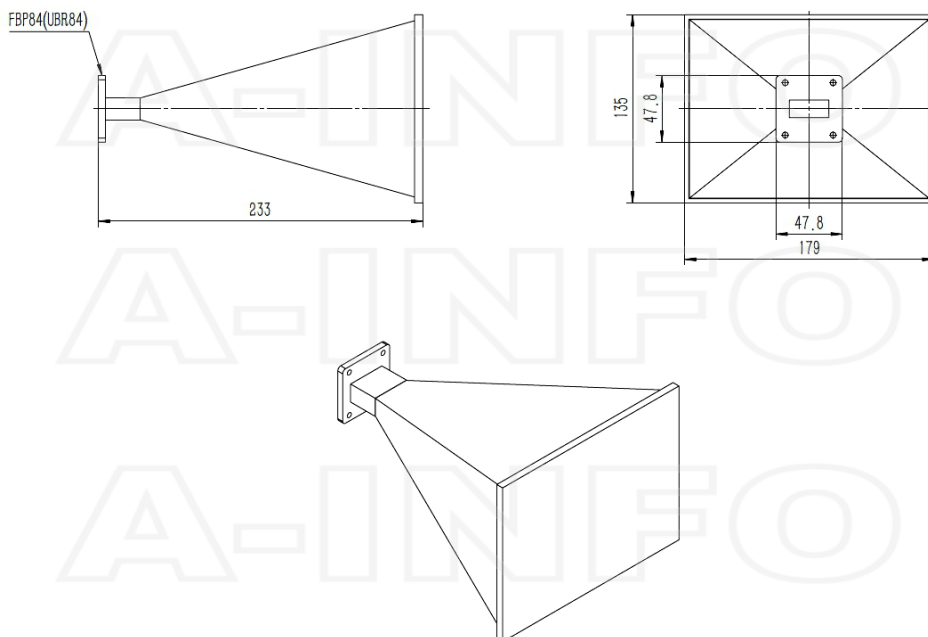
Electrical Specification		Interface	
Frequency, Min (GHz)	7.05	Output Type	Waveguide
Frequency, Max (GHz)	10	Flange Style	Square
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR112	Flange Designation	FBP84(UBR84)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Body Material	Al
Cross Pol. Isolation, Typ (dB)	40	Finish	Chemical Conversion Coating, Gray Paint
VSWR, Typ	1.15:1	Size, W (mm)	179
		Size, H (mm)	135
		Size, L (mm)	233
		Weight, (kg)	0.36

Additional Information

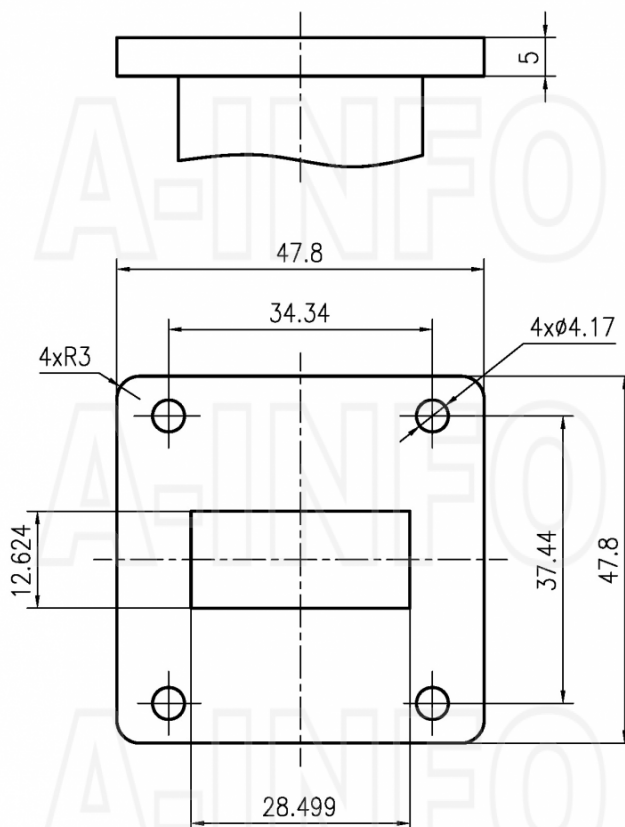
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FBP84 Output with Radome (Option, P/N: LB-112-20-ASPO, Outdoor Application)



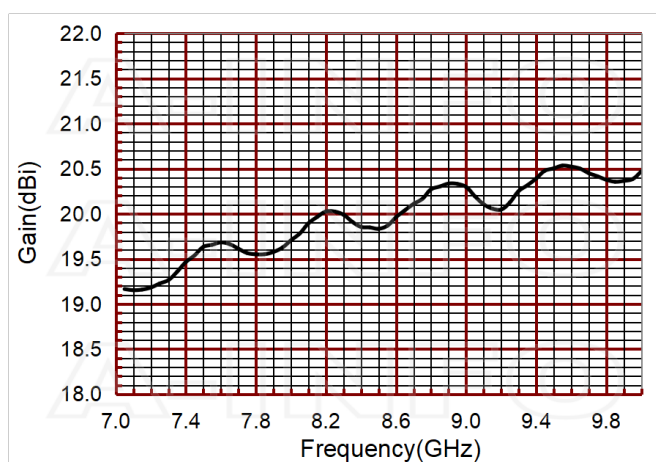
Flange Drawing



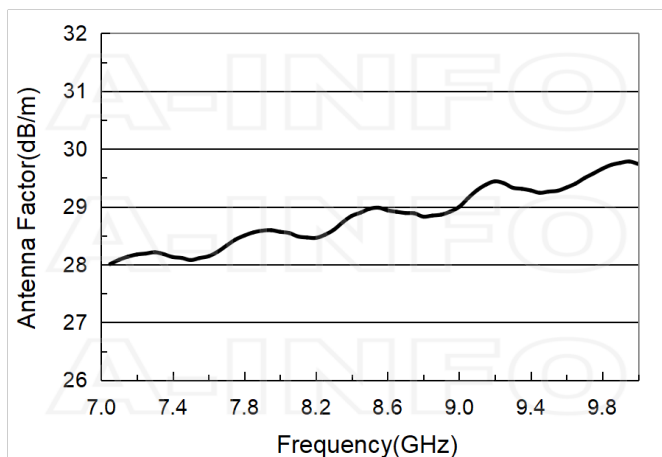
FBP84

Typical Test Results

Gain



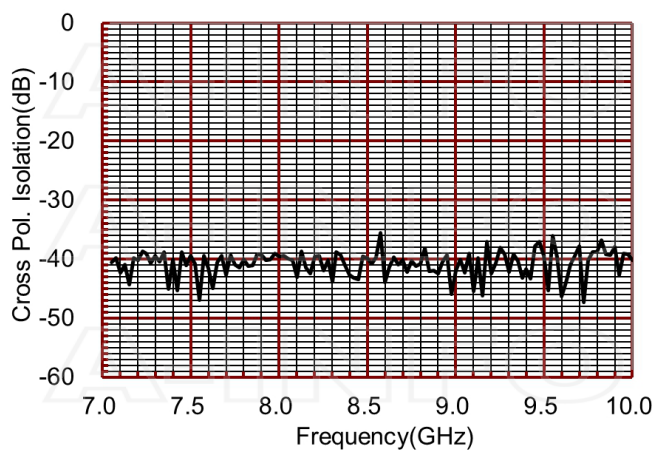
Antenna Factor



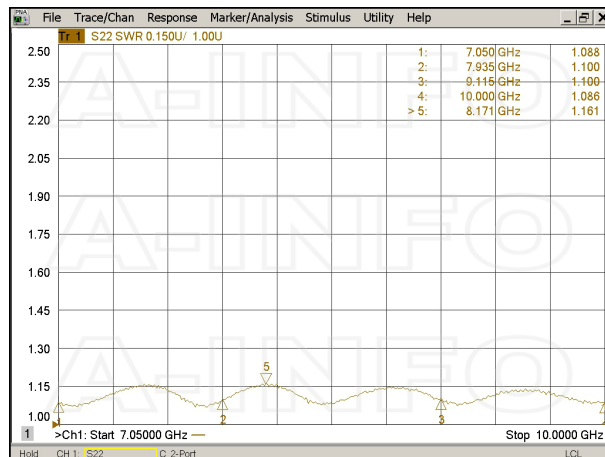
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
7.05	19.17	28.01
7.25	19.23	28.19
7.5	19.63	28.08
7.75	19.56	28.43
8	19.71	28.57
8.25	20.02	28.52
8.5	19.83	28.96
8.75	20.16	28.89
9	20.30	29.00
9.25	20.13	29.41
9.5	20.50	29.26
9.75	20.41	29.58
10	20.47	29.74

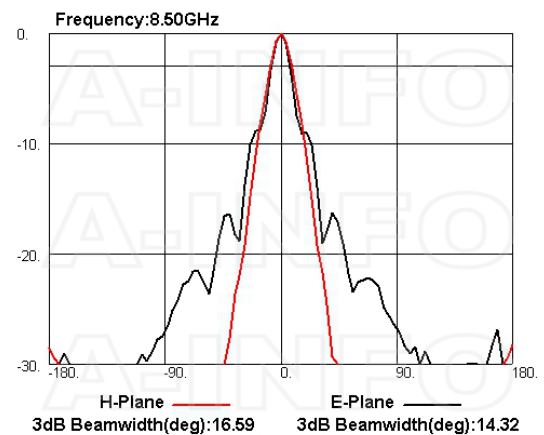
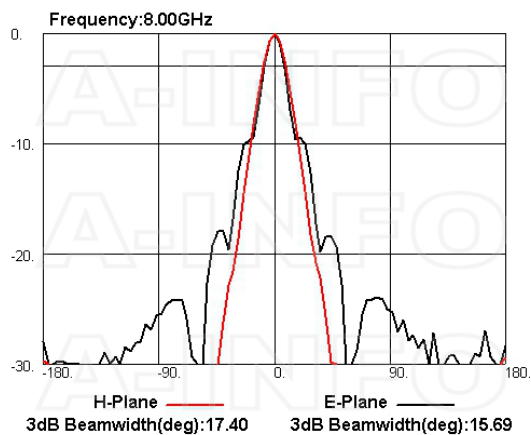
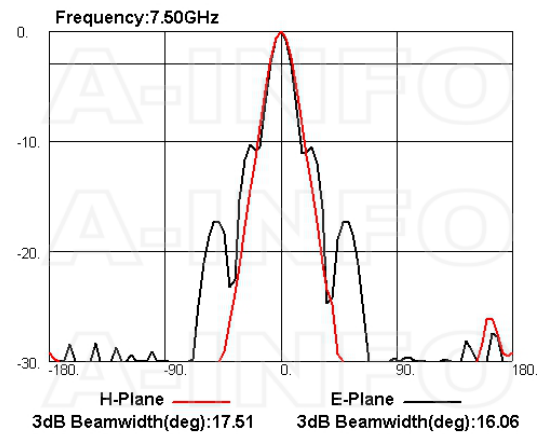
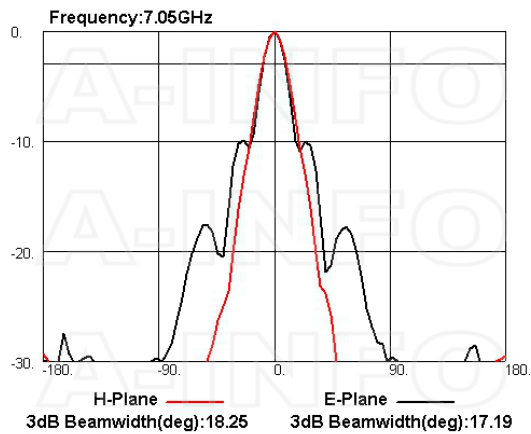
Cross Polarization Isolation

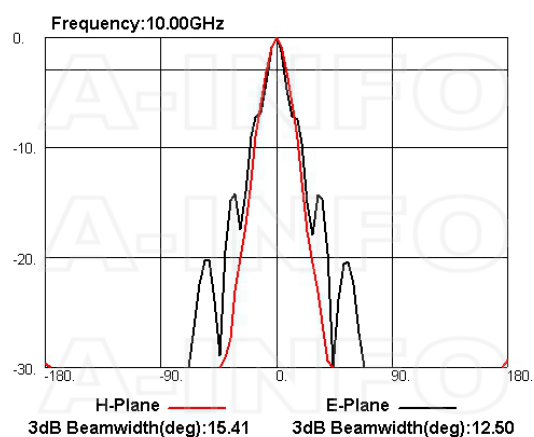
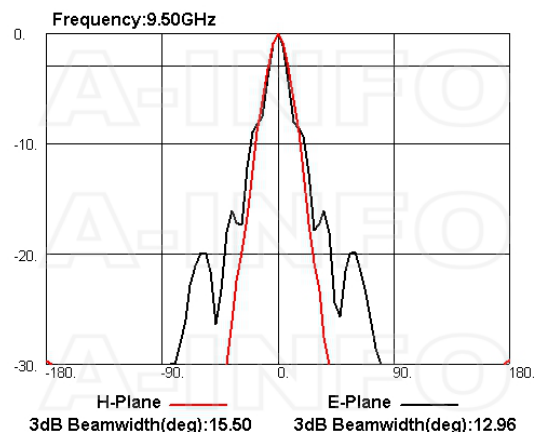
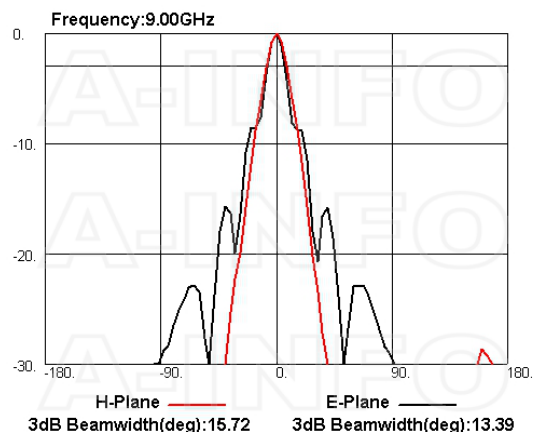


VSWR



Pattern





Related Products



112WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to N Type Female



112WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to N Type Male



112WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to SMA Female



112WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to SMA Male



112WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to TNC Female



112WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to TNC Male



112WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 7mm



112WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 3.5mm Female



112WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 3.5mm Male



112WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 2.92mm Female



112WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 2.92mm Male



112WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 2.4mm Female



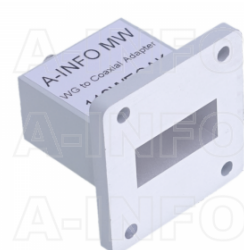
112WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 2.4mm Male



112WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to N Type Female



112WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to SMA Female



112WECAK Endlaunch Rectangular Waveguide to Coaxial Adapter 7.05-10GHz WR112 to 2.92mm Female

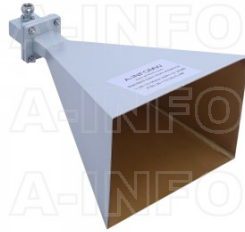


M4x18 Hex_Pack WR112- WR51 Flange Assembly Pack

Similar Products



LB-112-20-A Standard Gain Horn Antenna 7.05-10GHz 20dB Gain Rectangular Waveguide Interface



LB-112-20-C-NF Standard Gain Horn Antenna 7.05-10GHz 20dB Gain N Type Female



LB-112-20-C-NFSPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain N Type Female



LB-112-20-C-SF Standard Gain Horn Antenna 7.05-10GHz 20dB Gain SMA Female



LB-112-20-C-SFSPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain SMA Female



LB-112-20-C-TF Standard Gain Horn Antenna 7.05-10GHz 20dB Gain TNC Female



LB-112-20-C-TFSPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain TNC Female



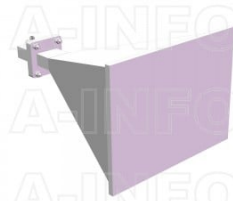
LB-112-20-C-7 Standard Gain Horn Antenna 7.05-10GHz 20dB Gain 7mm



LB-112-20-C-7SPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain 7mm



LB-112-20-C-3.5F Standard Gain Horn Antenna 7.05-10GHz 20dB Gain 3.5mm Female



LB-112-20-C-3.5FSPO Standard Gain Horn Antenna 7.05-10GHz 20dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-112-20-aspo-standard-gain-horn-antenna-7-05-10-ghz-20db-gain-fbp84 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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