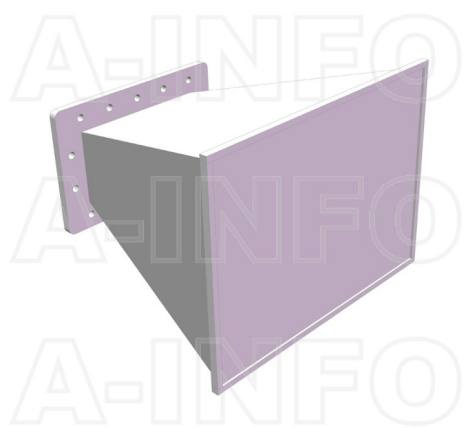




LB-770-10-ASPO Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 0.96GHz to 1.45GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-770-10-ASPO
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Description

Standard Gain Horn Antenna LB-770-10-ASPO, operating from 0.96 to 1.45GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP12 output. The model LB-770-10-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

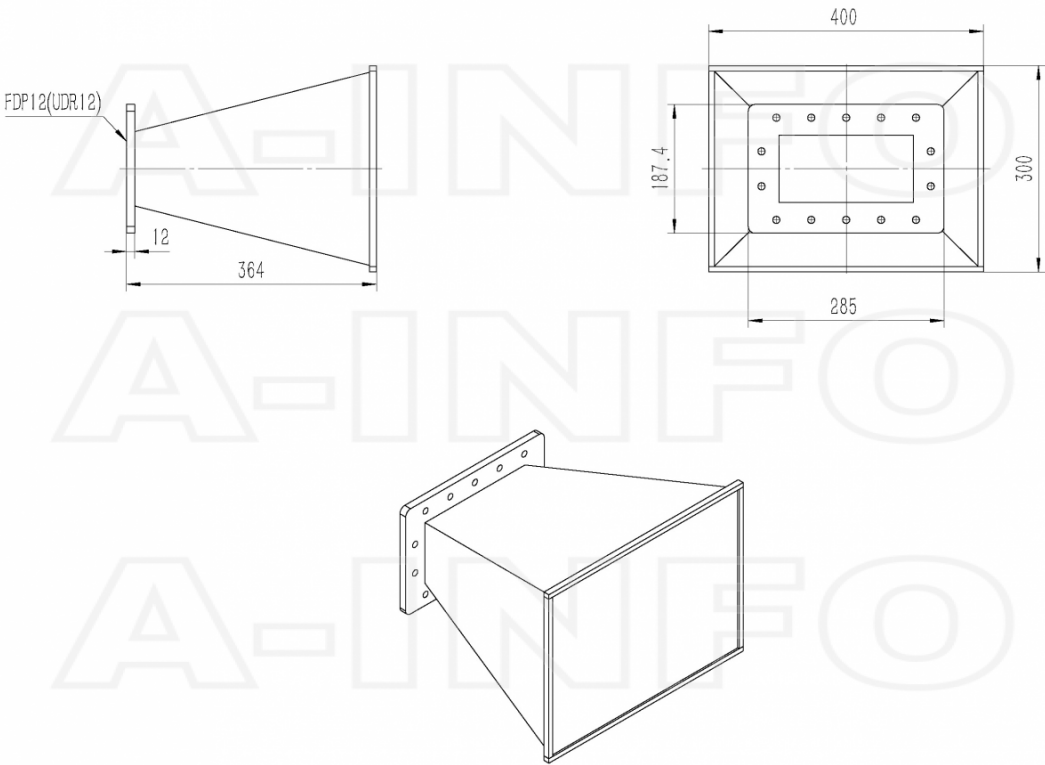
Electrical Specification		Interface	
Frequency, Min (GHz)	0.96	Output Type	Waveguide
Frequency, Max (GHz)	1.45	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR770	Flange Designation	FDP12(UDR12)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	43	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	41	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	35	Size, W (mm)	400
VSWR, Typ	1.15:1	Size, H (mm)	300
		Size, L (mm)	364
		Weight, (kg)	3.5

Additional Information

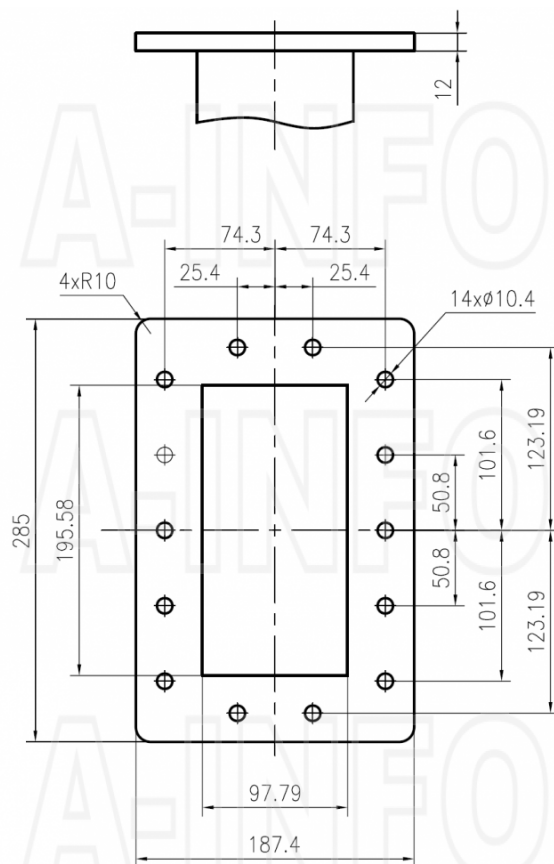
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP12 Output with Radome (Option, P/N: LB-770-10-ASPO, Outdoor Application)



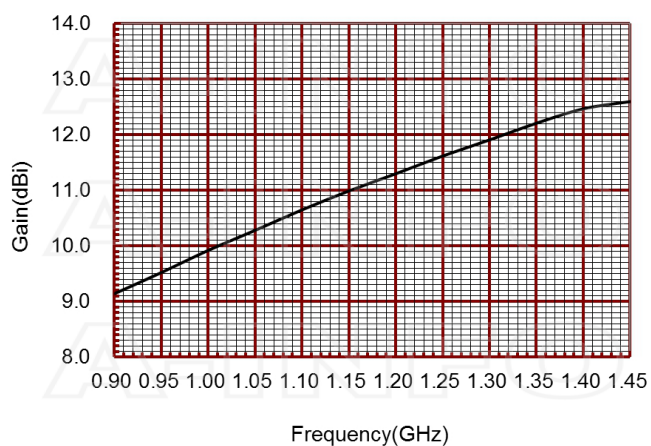
Flange Drawing



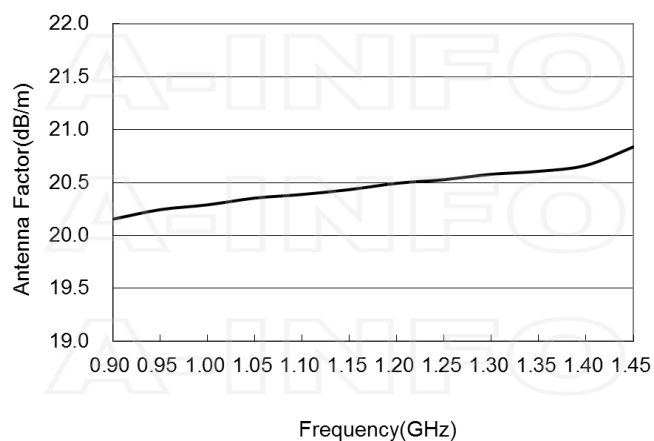
FDP12

Typical Test Results

Gain



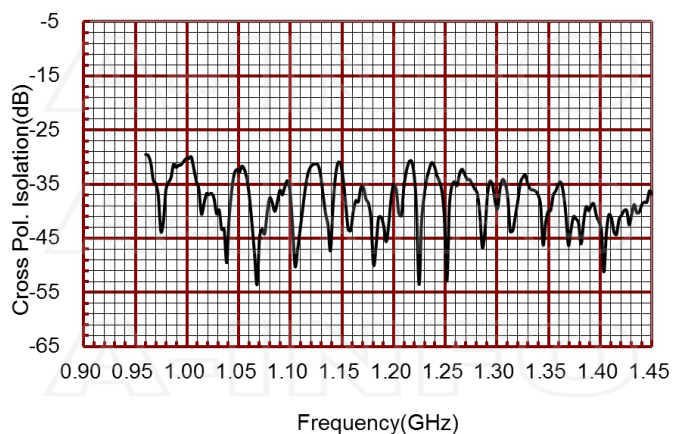
Antenna Factor



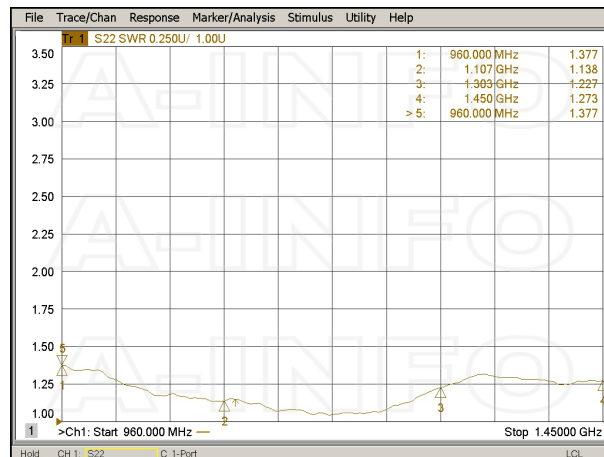
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
0.90	9.14	20.15
0.95	9.52	20.24
1.00	9.92	20.29
1.05	10.28	20.35
1.10	10.65	20.39
1.15	10.99	20.43
1.20	11.30	20.49
1.25	11.62	20.53
1.30	11.91	20.58
1.35	12.21	20.61
1.40	12.47	20.66
1.45	12.60	20.84

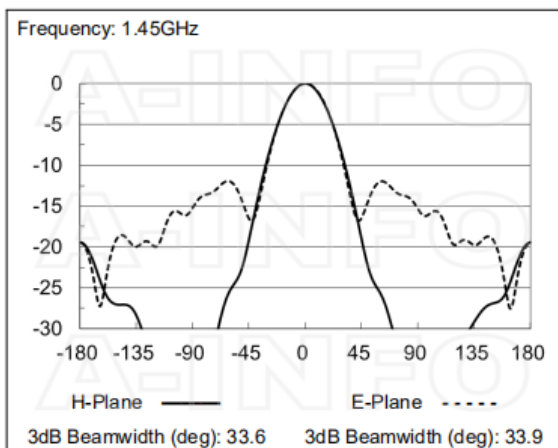
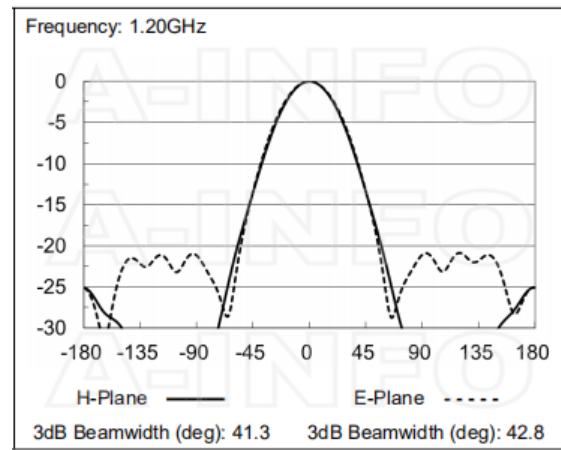
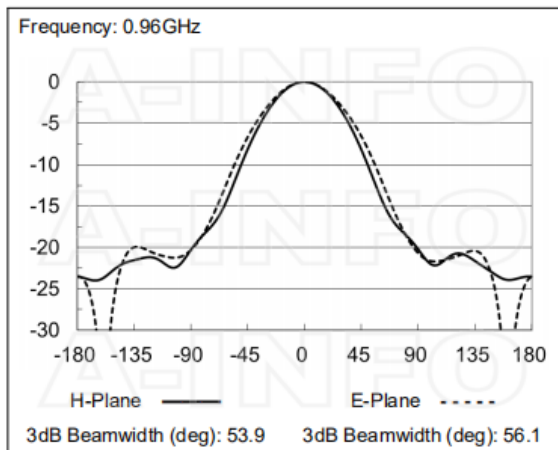
Cross Polarization Isolation



VSWR



Pattern



Related Products



770WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 0.96-1.45GHz WR770 to N Type Female



770WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 0.96-1.45GHz WR770 to N Type Male



770WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 0.96-1.45GHz WR770 to SMA Female



770WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 0.96-1.45GHz WR770 to SMA Male



770WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 0.96-1.45GHz WR770 to 7/16 DIN Female



M10x45 Hex_Pack WR770 Flange Assembly Pack

Similar Products



LB-770-10-A Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain Rectangular Waveguide Interface



LB-770-10-C-NF Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain N Type Female



LB-770-10-C-NFSPO Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain N Type Female



LB-770-10-C-SF Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain SMA Female



LB-770-10-C-SFSPO Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain SMA Female



LB-770-10-C-7/16F Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain 7/16(DIN) Female



LB-770-10-C-7/16FSPO Standard Gain Horn Antenna 0.96-1.45GHz 10dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-770-10-aspo-standard-gain-horn-antenna-0-96-1-45-ghz-10db-gain-fdp12 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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