

LB-770-10-A 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-A
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Description

Standard Gain Horn Antenna LB-770-10-A, 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-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. 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

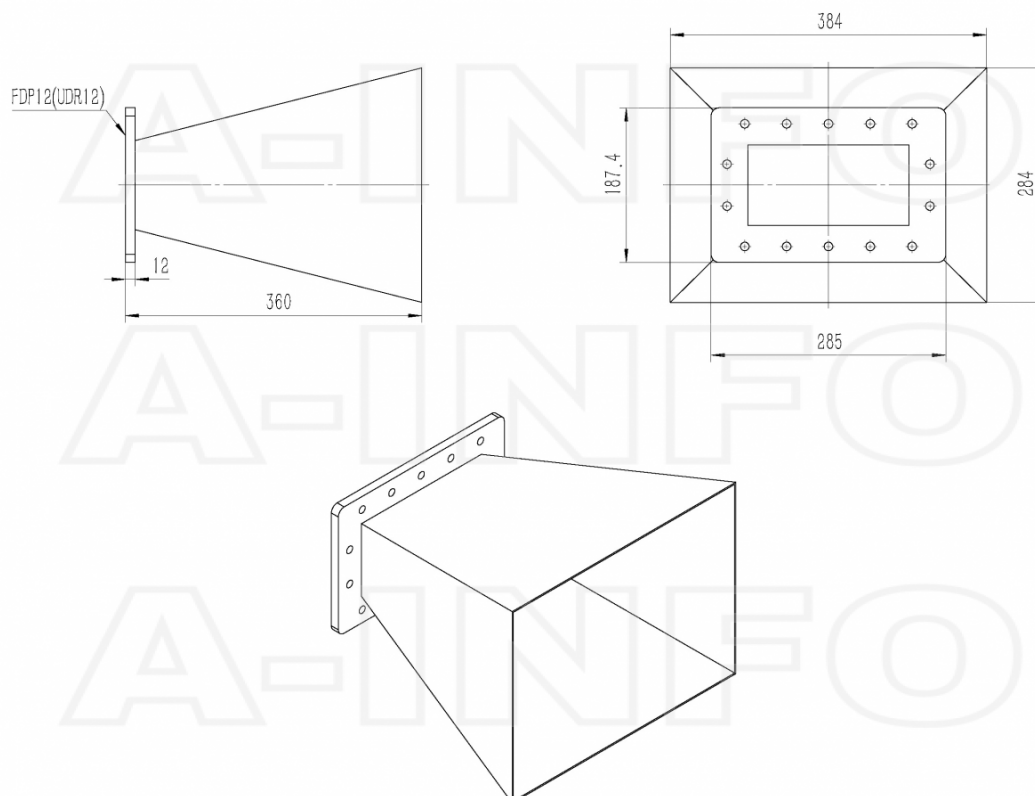
Electrical Specification		Interface	
Frequency, Min (GHz)	0.96	Output Type	Waveguide
Frequency, Max (GHz)	1.45	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR770	Flange Designation	FDP12(UDR12)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	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)	384
VSWR, Typ	1.15:1	Size, H (mm)	284
		Size, L (mm)	360
		Weight, (kg)	2.9

Additional Information

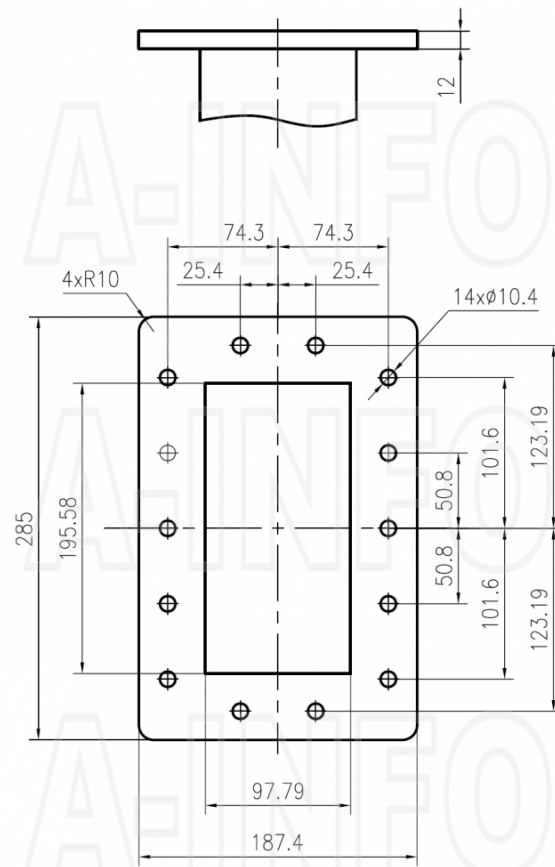
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP12 Output (P/N: LB-770-10-A)



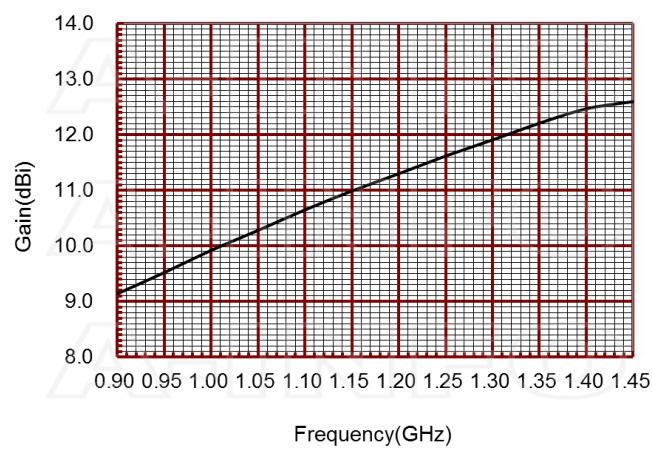
Flange Drawing



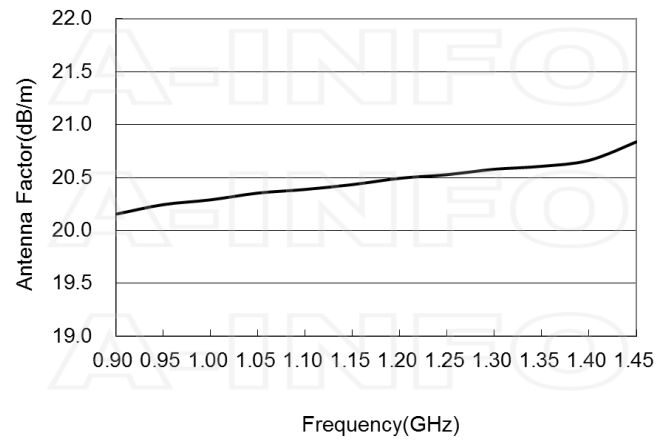
FDP12

Typical Test Results

Gain



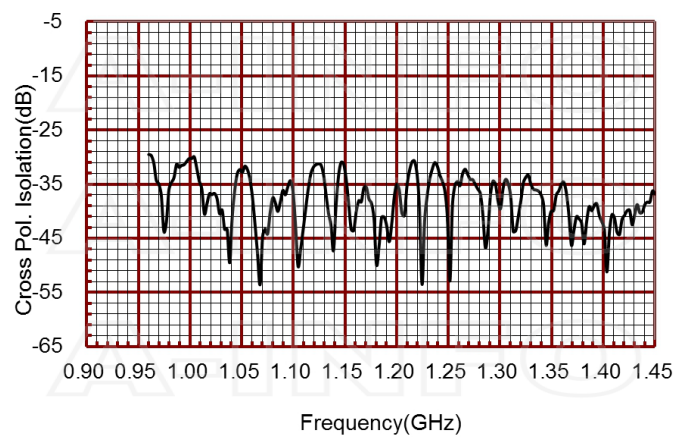
Antenna Factor



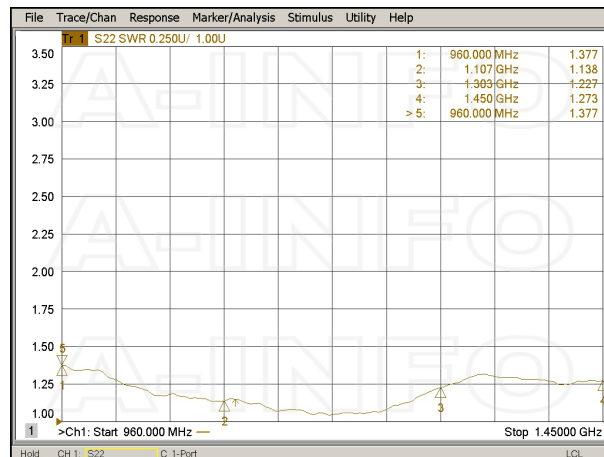
Antenna Factor (Table)

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

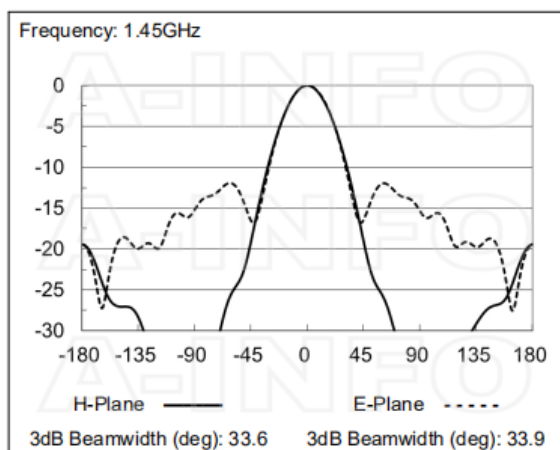
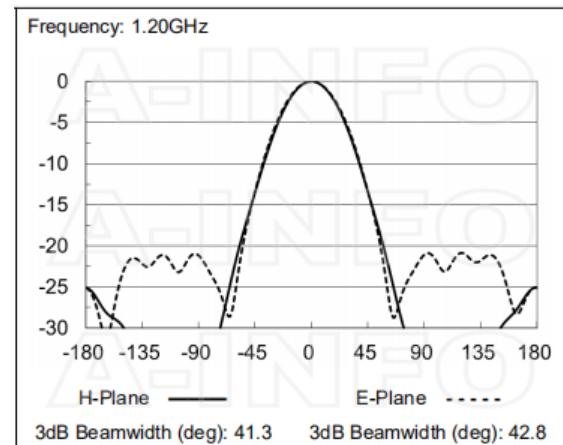
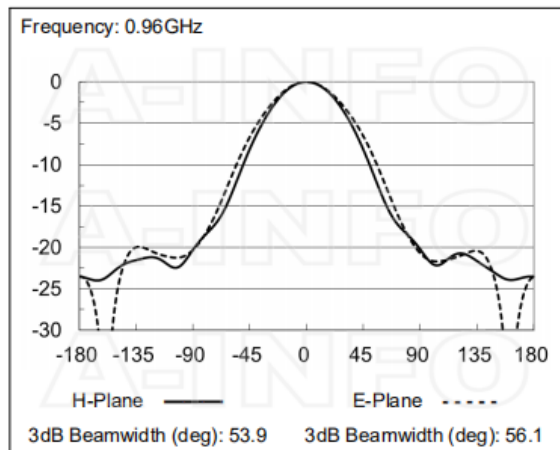
Cross Polarization Isolation



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

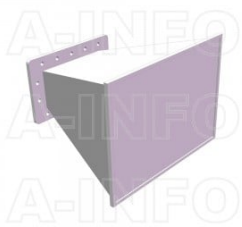


770WCA7/16 Right Angle
Rectangular Waveguide to
Coaxial Adapter 0.96-1.45GHz
WR770 to 7/16 DIN Female



M10x45 Hex_Pack WR770 Flange
Assembly Pack

Similar Products



LB-770-10-ASPO 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-a-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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