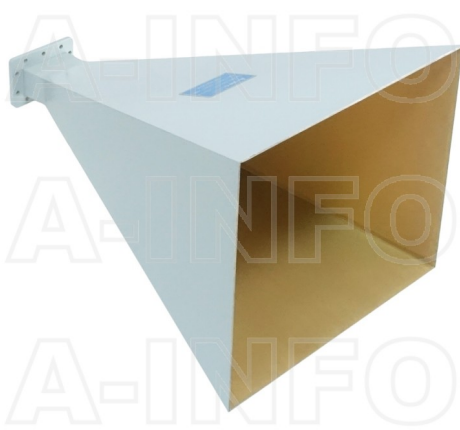




LB-284-20-A Standard Gain Horn Antenna 2.6-3.95GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 2.6GHz to 3.95GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-284-20-A
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Description

Standard Gain Horn Antenna LB-284-20-A, operating from 2.6 to 3.95GHz with a nominal 20dB gain and low VSWR 1.15:1 with FDP32 output. The model LB-284-20-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

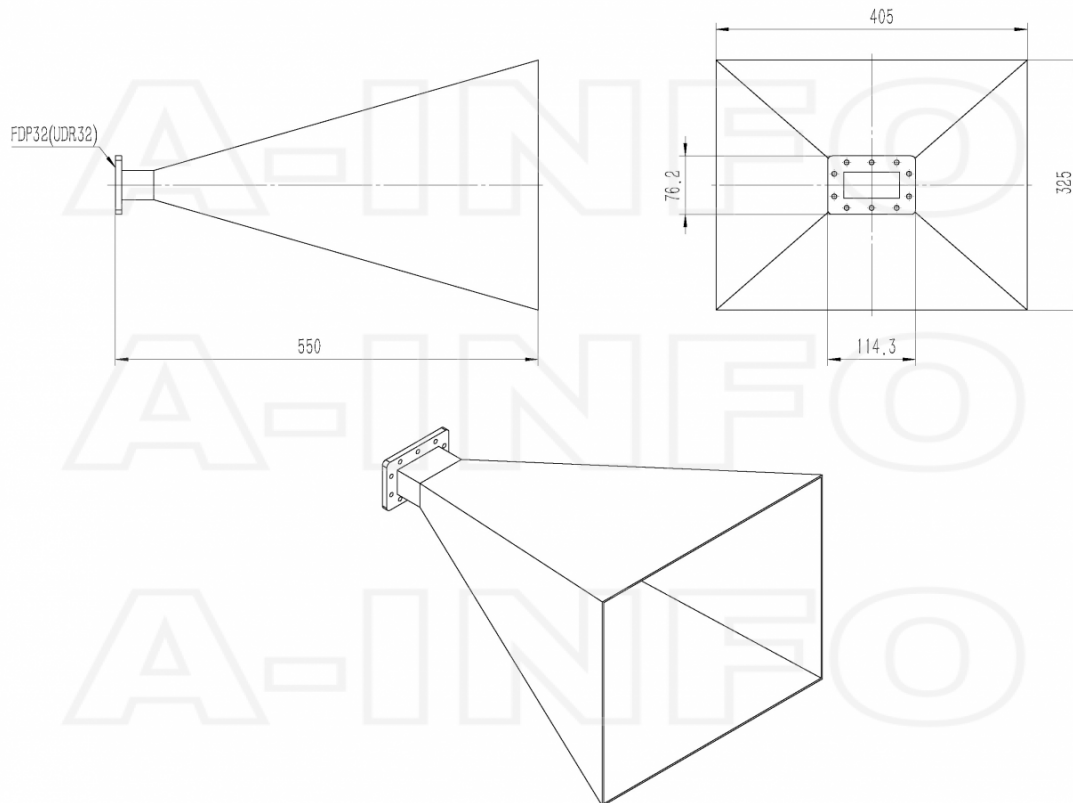
Electrical Specification		Interface	
Frequency, Min (GHz)	2.6	Output Type	Waveguide
Frequency, Max (GHz)	3.95	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR284	Flange Designation	FDP32(UDR32)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	40	Size, W (mm)	405
VSWR, Typ	1.15:1	Size, H (mm)	325
		Size, L (mm)	550
		Weight, (kg)	3.2

Additional Information

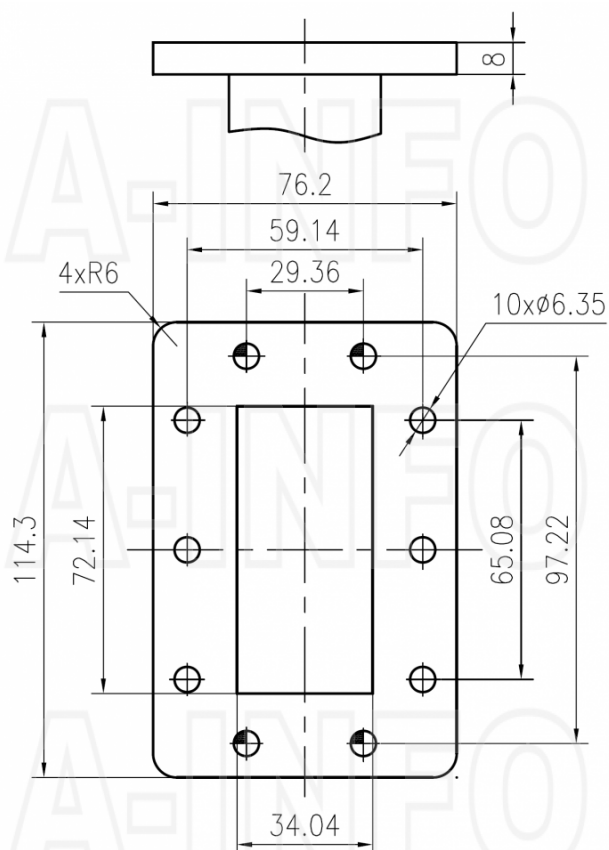
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP32 Output (P/N: LB-284-20-A)



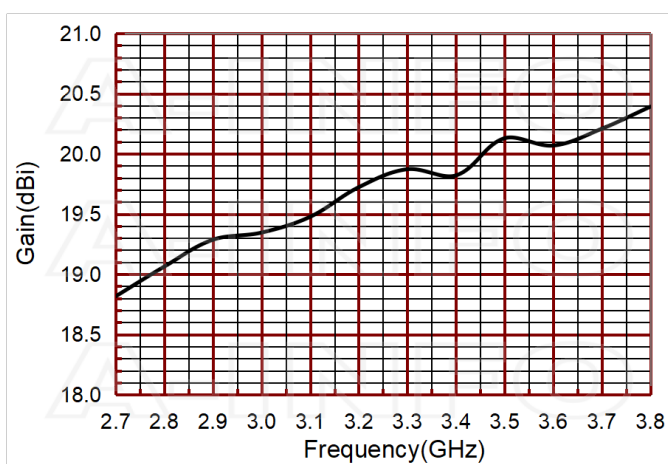
Flange Drawing



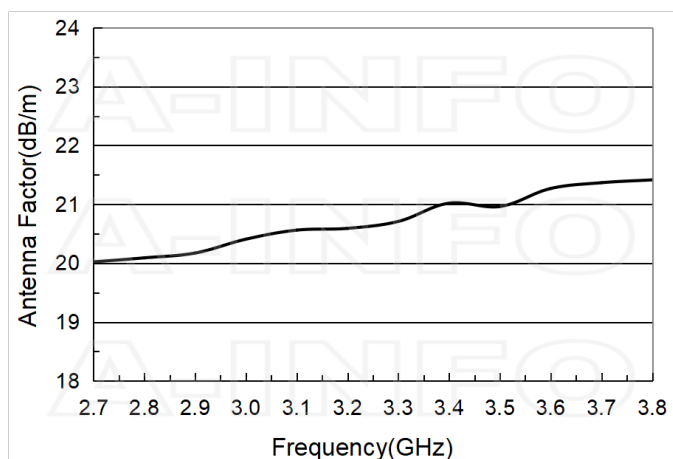
FDP32

Typical Test Results

Gain



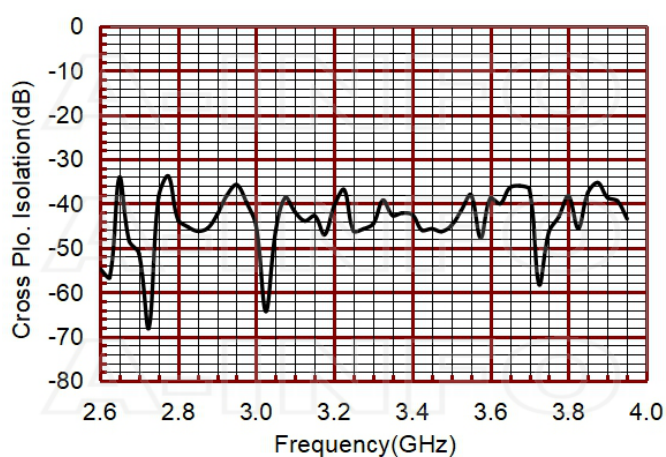
Antenna Factor



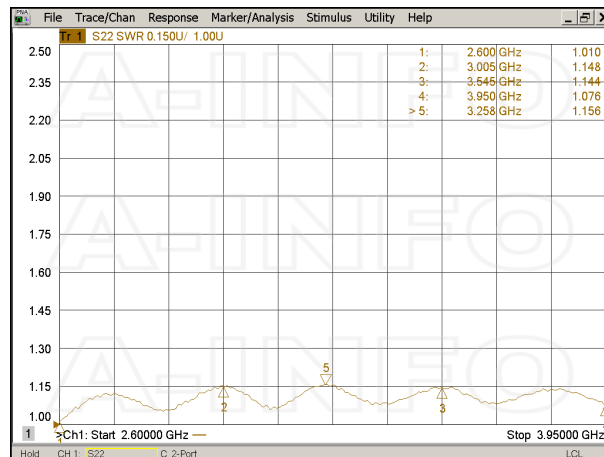
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
2.70	18.82	20.02
2.80	19.06	20.09
2.90	19.29	20.17
3.00	19.35	20.41
3.10	19.48	20.56
3.20	19.72	20.59
3.30	19.87	20.71
3.40	19.82	21.02
3.50	20.13	20.96
3.60	20.07	21.27
3.70	20.21	21.37
3.80	20.39	21.41

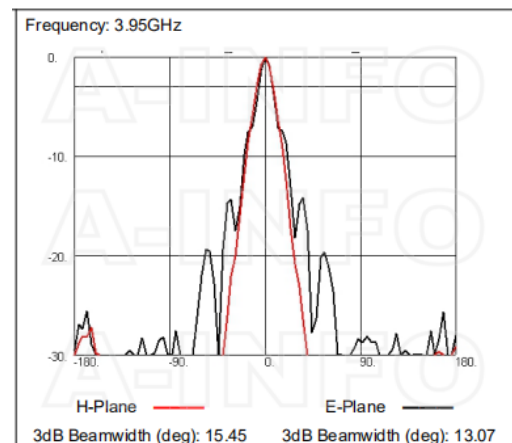
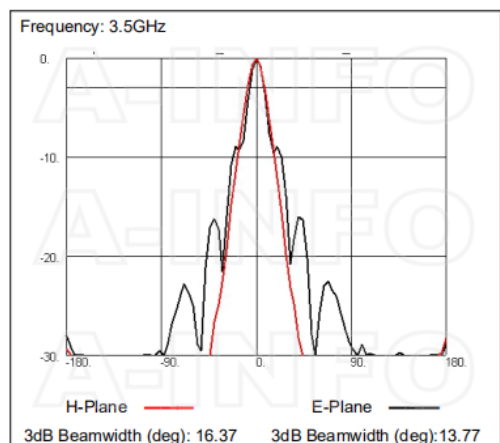
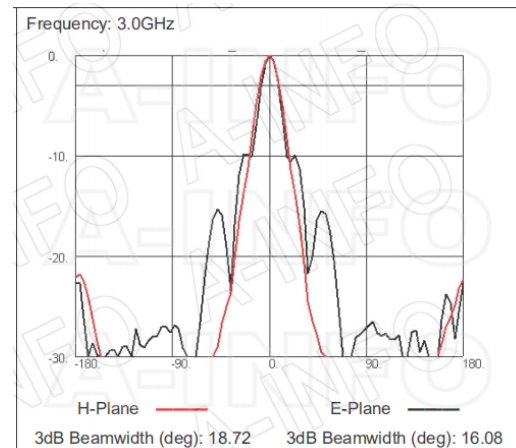
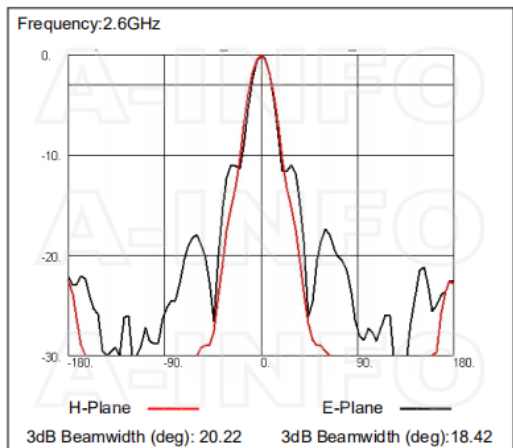
Cross Polarization Isolation



VSWR



Pattern



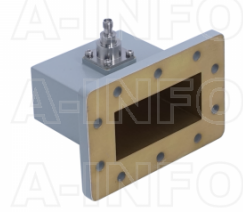
Related Products



284WCAN Right Angle
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to N Type Female



284WCANM Right Angle
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to N Type Male



284WCAS Right Angle
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to SMA Female



284WCA7/16 Right Angle
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to 7/16 DIN Female



284WECAN Endlaunch
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to N Type Female



284WECAS Endlaunch
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to SMA Female



284WECAS Endlaunch
Rectangular Waveguide to
Coaxial Adapter 2.6-3.95GHz
WR284 to SMA Female

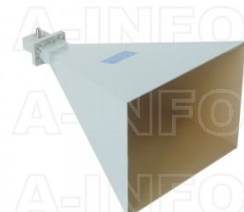


M6x30 Hex_Pack WR284-WR159
Flange Assembly Pack

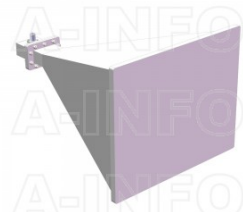
Similar Products



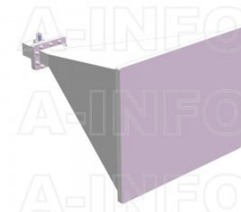
LB-284-20-ASPO Standard Gain
Horn Antenna 2.6-3.95GHz 20dB
Gain Rectangular Waveguide
Interface



LB-284-20-C-NF Standard Gain
Horn Antenna 2.6-3.95GHz 20dB
Gain N Type Female



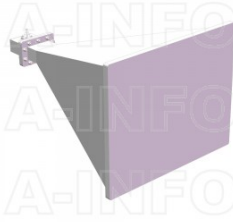
LB-284-20-C-NFSPO Standard
Gain Horn Antenna 2.6-3.95GHz
20dB Gain N Type Female



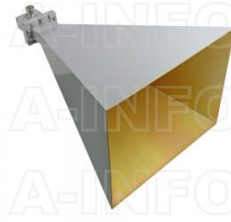
LB-284-20-C-NFSPS Standard
Gain Horn Antenna 2.6-3.95GHz
20dB Gain N Type Female



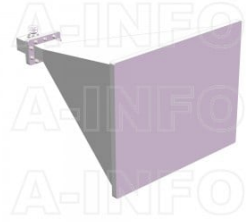
LB-284-20-C-SF Standard Gain
Horn Antenna 2.6-3.95GHz 20dB
Gain SMA Female



LB-284-20-C-SFSPO Standard
Gain Horn Antenna 2.6-3.95GHz
20dB Gain SMA Female



LB-284-20-C-7/16F Standard
Gain Horn Antenna 2.6-3.95GHz
20dB Gain 7/16(DIN) Female



LB-284-20-C-7/16FSPO Standard
Gain Horn Antenna 2.6-3.95GHz
20dB Gain 7/16(DIN) Female

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-284-20-a-standard-gain-horn-antenna-2-6-3-95-ghz-20db-gain-fdp32 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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