

LB-187-20-A Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain Rectangular Waveguide Interface



Standard Gain Horn Antenna Operating From 3.95GHz to 5.85GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-187-20-A
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Description

Standard Gain Horn Antenna LB-187-20-A, operating from 3.95 to 5.85GHz with a nominal 20dB gain and low VSWR 1.15:1 with FDP48 output. The model LB-187-20-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

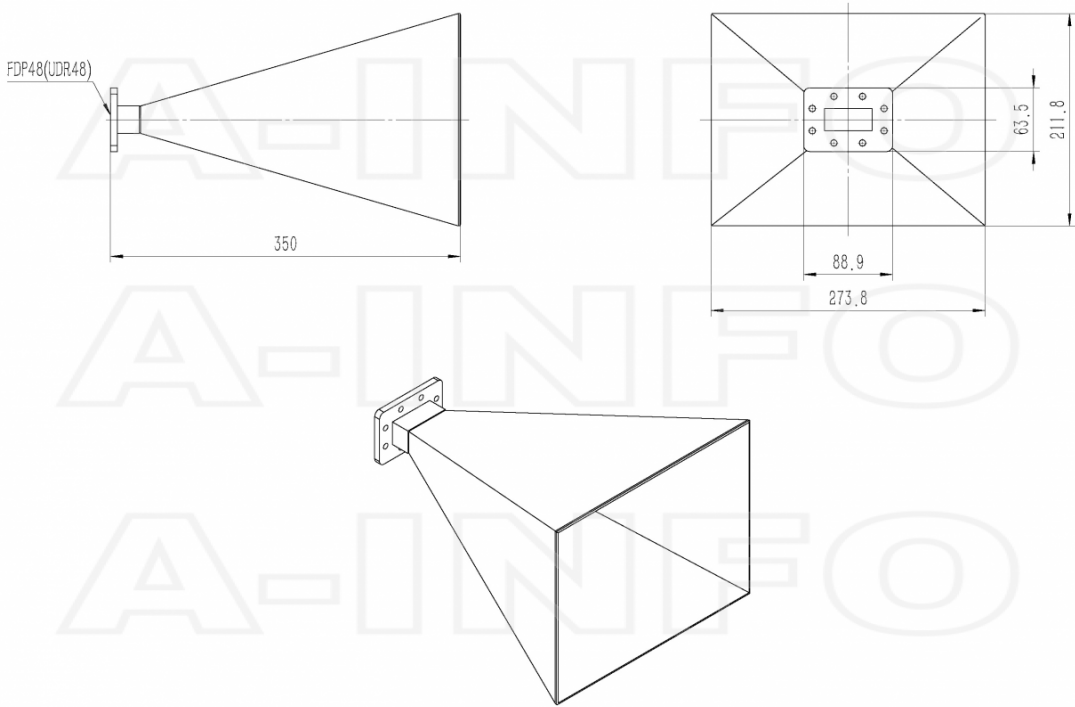
Electrical Specification		Interface	
Frequency, Min (GHz)	3.95	Output Type	Waveguide
Frequency, Max (GHz)	5.85	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR187	Flange Designation	FDP48(UDR48)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	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)	30	Size, W (mm)	273.8
VSWR, Typ	1.15:1	Size, H (mm)	211.8
		Size, L (mm)	350
		Weight, (kg)	1.36

Additional Information

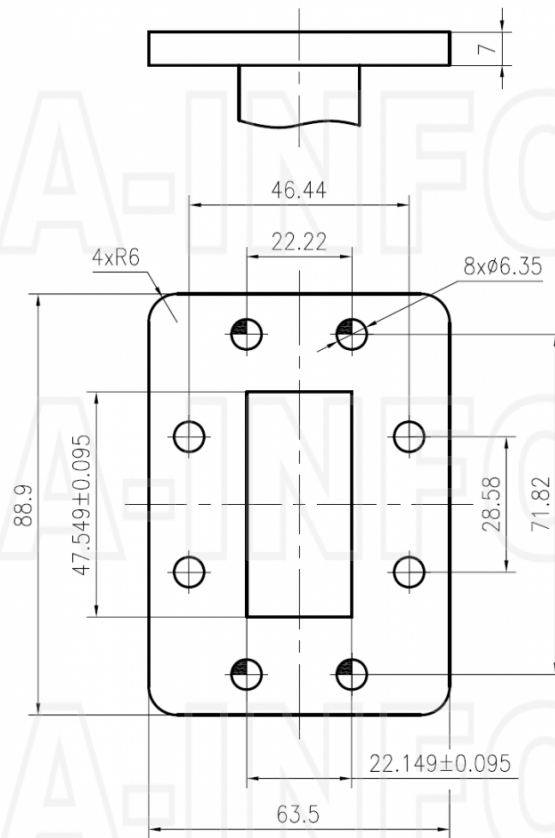
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP48 Output (P/N: LB-187-20-A)



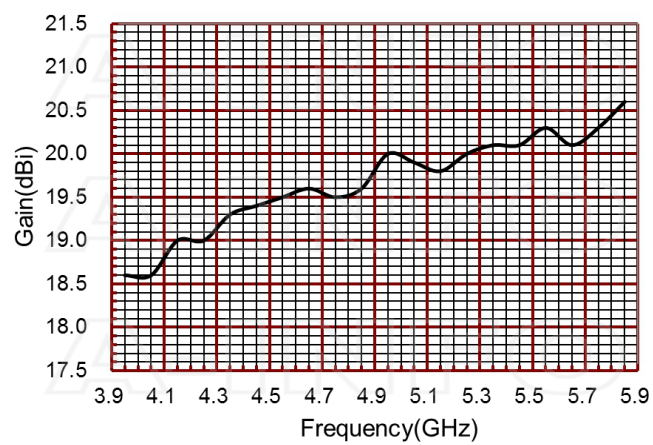
Flange Drawing



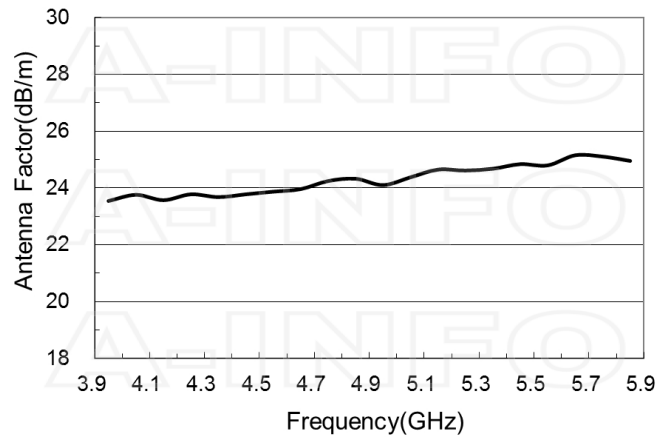
FDP48

Typical Test Results

Gain



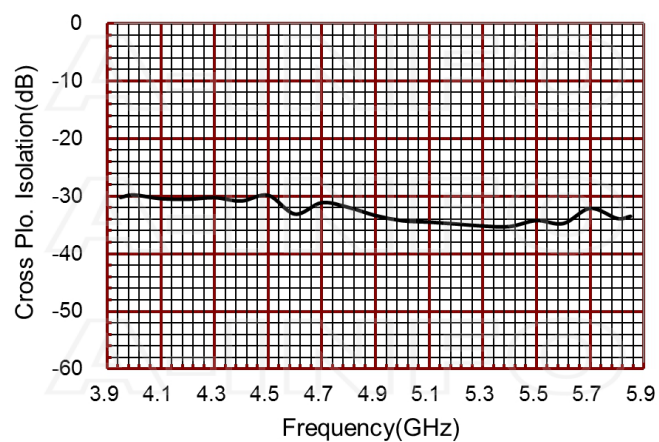
Antenna Factor



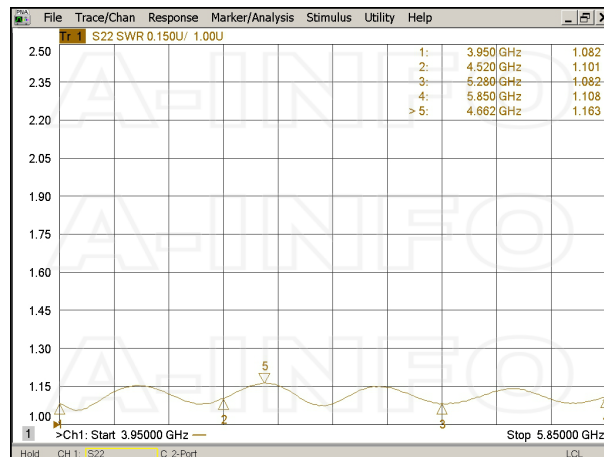
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)		Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
3.95	18.60	23.54		4.95	20.00	24.10
4.05	18.60	23.76		5.05	19.90	24.38
4.15	19.00	23.57		5.15	19.80	24.65
4.25	19.00	23.78		5.25	20.00	24.61
4.35	19.30	23.68		5.35	20.10	24.68
4.45	19.40	23.78		5.45	20.10	24.84
4.55	19.50	23.87		5.55	20.30	24.80
4.65	19.60	23.96		5.65	20.10	25.15
4.75	19.50	24.24		5.75	20.30	25.10
4.85	19.60	24.32		5.85	20.60	24.95

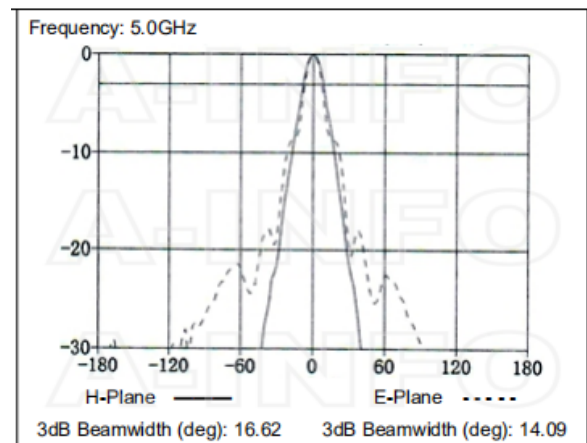
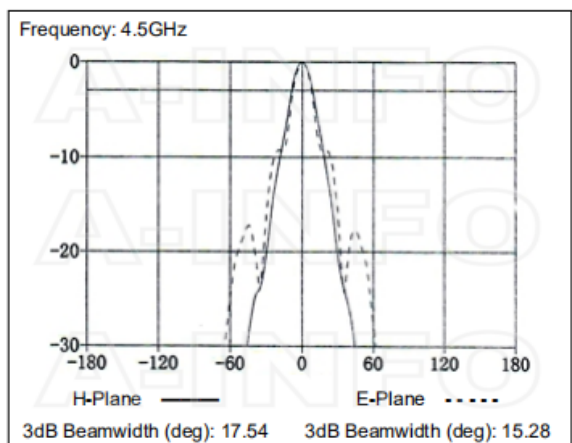
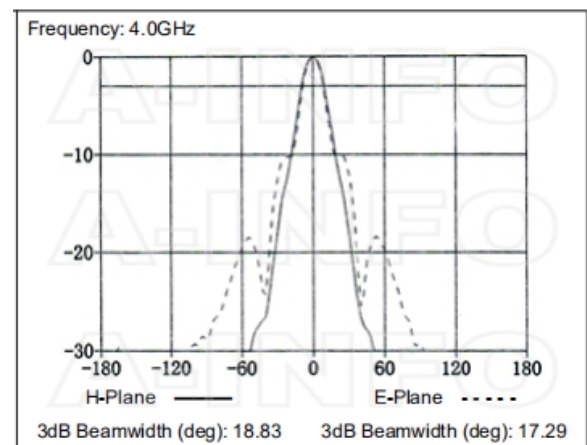
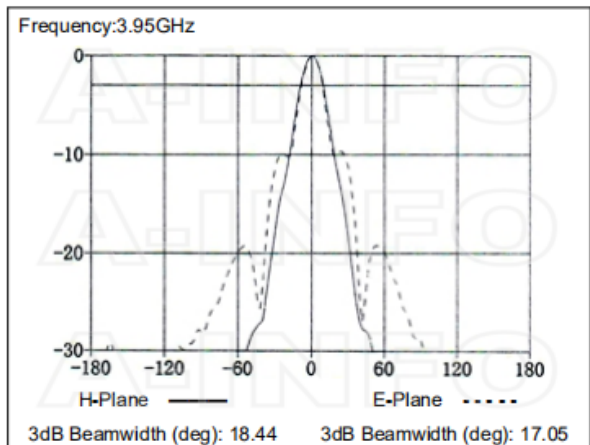
Cross Polarization Isolation

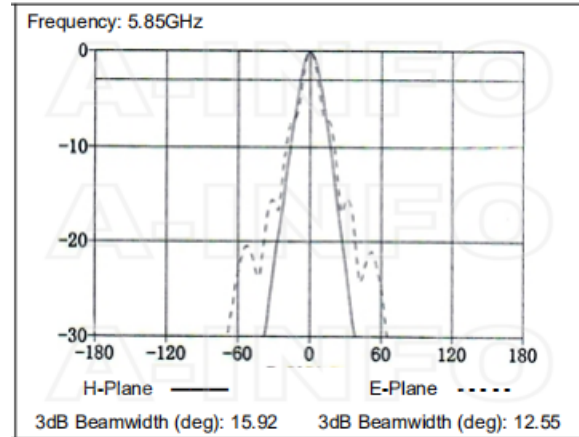
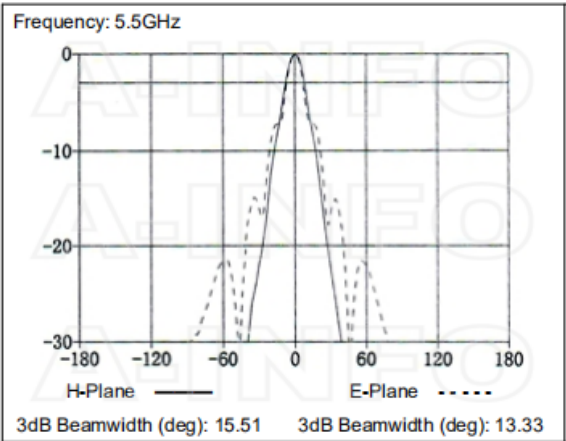


VSWR



Pattern





Related Products



187WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to N Type Female



187WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to N Type Male



187WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to SMA Female



187WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to SMA Male



187WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to TNC Female



187WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to TNC Male



187WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 7mm



187WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 3.5mm Female



187WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 3.5mm Male



187WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 2.92mm Female



187WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 2.92mm Male



187WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 2.4mm Female



187WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 2.4mm Male



187WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to N Type Female



187WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to SMA Female



187WECAK Endlaunch Rectangular Waveguide to Coaxial Adapter 3.95-5.85GHz WR187 to 2.92mm Female



M6x30 Hex_Pack WR284-WR159 Flange Assembly Pack

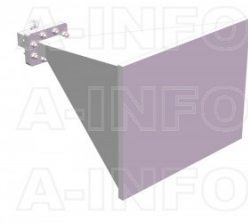
Similar Products



LB-187-20-ASPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain Rectangular Waveguide Interface



LB-187-20-C-NF Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain N Type Female



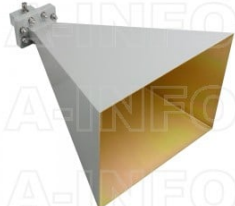
LB-187-20-C-NFSPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain N Type Female



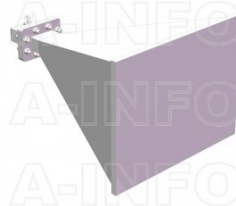
LB-187-20-C-SF Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain SMA Female



LB-187-20-C-SFSPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain SMA Female



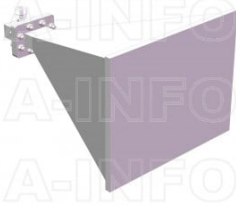
LB-187-20-C-TF Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain TNC Female



LB-187-20-C-TFSPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain TNC Female



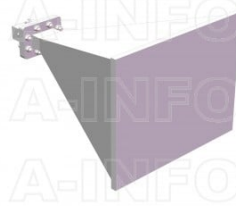
LB-187-20-C-7 Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain 7mm



LB-187-20-C-7SPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain 7mm



LB-187-20-C-3.5F Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain 3.5mm Female



LB-187-20-C-3.5FSPO Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-187-20-a-standard-gain-horn-antenna-3-95-5-85-ghz-20db-gain-fdp48 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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