

**LB-137-20-A Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain
Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 5.85GHz to 8.2GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-137-20-A
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Description

Standard Gain Horn Antenna LB-137-20-A, operating from 5.85 to 8.2GHz with a nominal 20dB gain and low VSWR 1.1:1 with FDP70(UDR70) output. The model LB-137-20-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

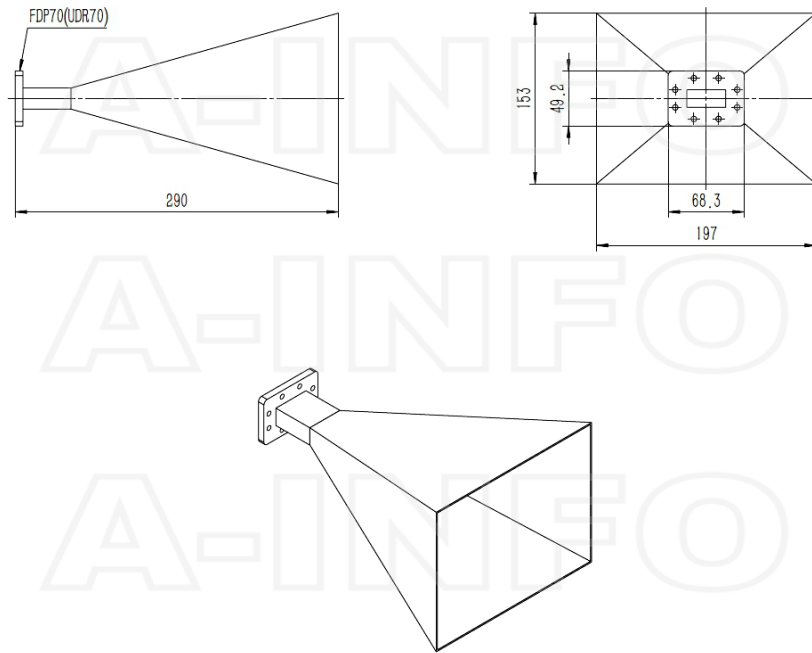
Electrical Specification		Interface	
Frequency, Min (GHz)	5.85	Output Type	Waveguide
Frequency, Max (GHz)	8.2	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR137	Flange Designation	FDP70(UDR70)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	45	Size, W (mm)	197
VSWR, Typ	1.1:1	Size, H (mm)	153
		Size, L (mm)	290
		Weight, (kg)	0.6

Additional Information

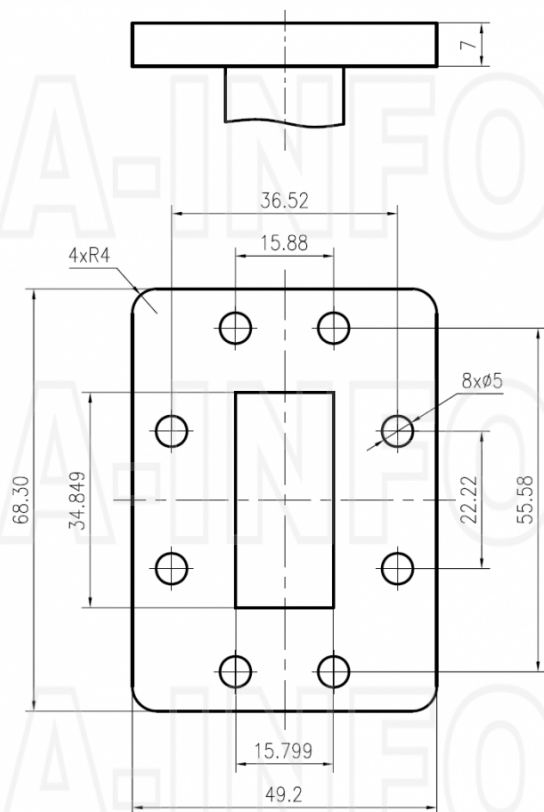
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP70 Output (P/N: LB-137-20-A)



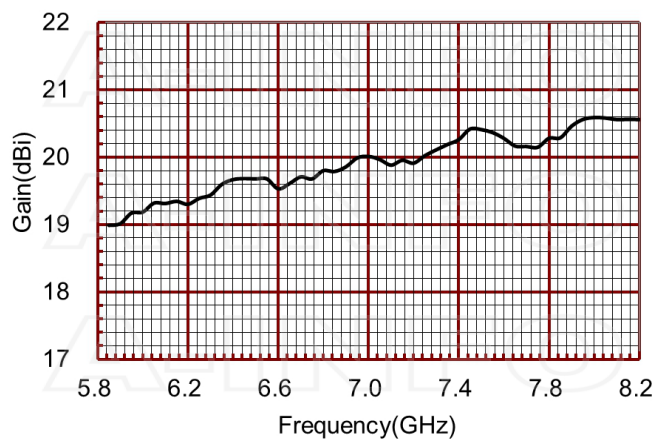
Flange Drawing



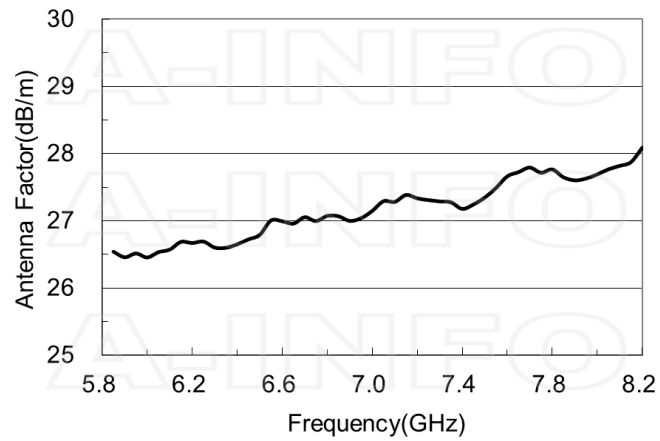
FDP70

Typical Test Results

Gain



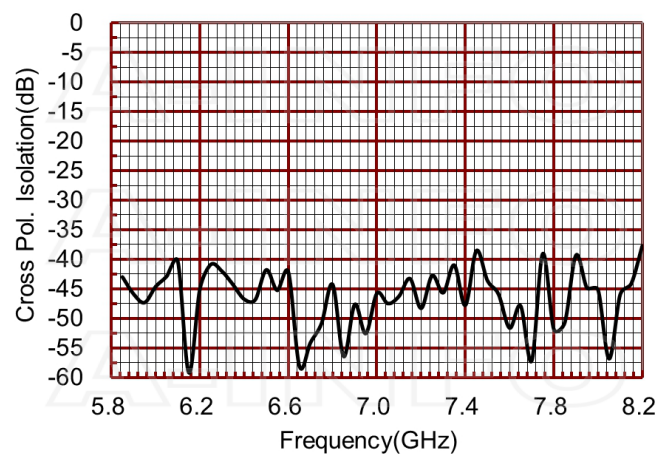
Antenna Factor



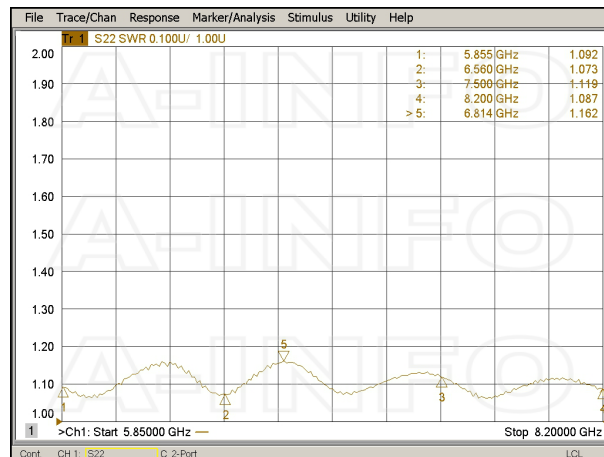
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
5.85	19.01	26.54		7.10	19.96	27.28
5.90	19.17	26.46		7.20	20.03	27.34
6.00	19.32	26.46		7.30	20.19	27.29
6.10	19.35	26.57		7.40	20.42	27.18
6.20	19.39	26.67		7.50	20.37	27.35
6.30	19.60	26.60		7.60	20.17	27.66
6.40	19.69	26.65		7.70	20.15	20.80
6.50	19.68	26.79		7.80	20.29	27.77
6.60	19.61	27.00		7.90	20.56	27.61
6.70	19.68	27.06		8.00	20.58	27.69
6.80	19.79	27.08		8.10	20.56	27.82
6.90	19.99	27.00		8.20	20.40	28.09
7.00	19.97	27.15				

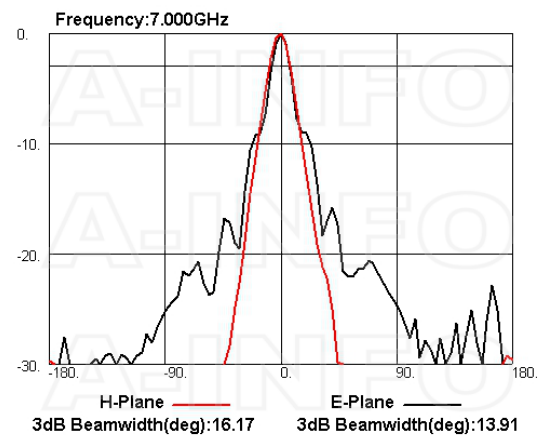
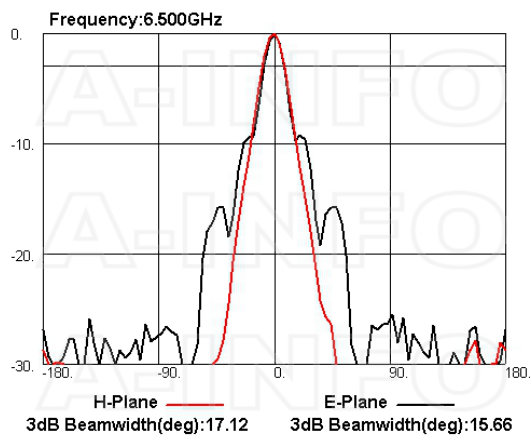
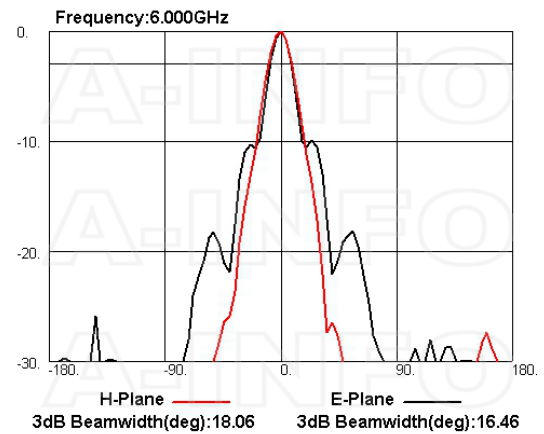
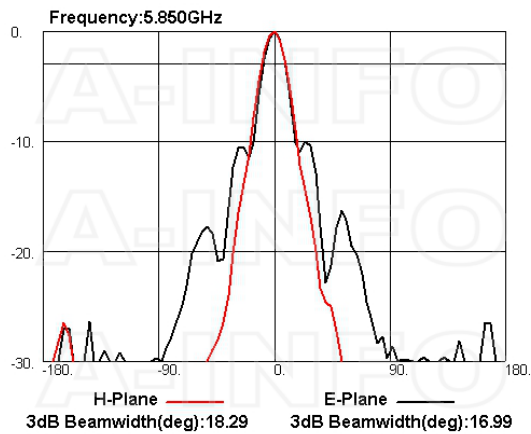
Cross Polarization Isolation

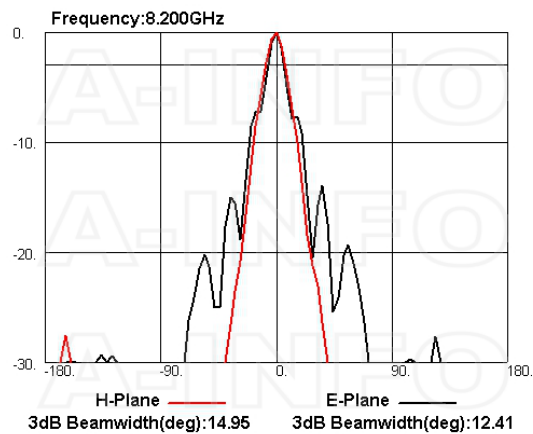
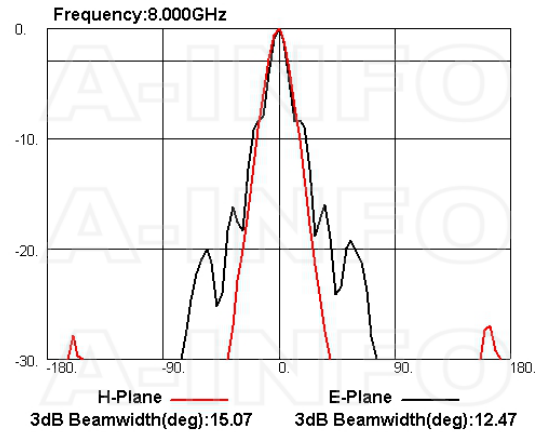
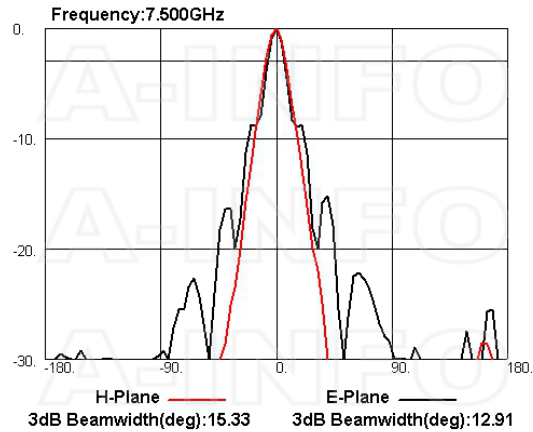


VSWR



Pattern





Related Products



137WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to N Type Female



137WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to N Type Male



137WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to SMA Female



137WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to SMA Male



137WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to TNC Female



137WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to TNC Male



137WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 7mm



137WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 3.5mm Female



137WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 3.5mm Male



137WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 2.92mm Female



137WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 2.92mm Male



137WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 2.4mm Female



137WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 2.4mm Male



137WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to N Type Female



137WECANM Endlaunch Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to N Type Male



137WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to SMA Female



137WECAM Endlaunch Rectangular Waveguide to Coaxial Adapter 5.85-8.2GHz WR137 to 2.92mm Female



M5x25 Hex_Pack WR137 Flange Assembly Pack

Similar Products



LB-137-20-ASPO Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain Rectangular Waveguide
Interface



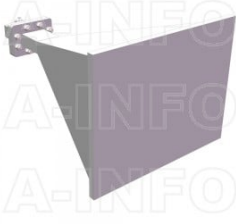
LB-137-20-C-NF Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain N Type Female



LB-137-20-C-NFSPO Standard
Gain Horn Antenna 5.85-8.2GHz
20dB Gain N Type Female



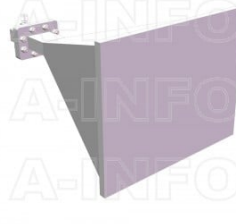
LB-137-20-C-SF Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain SMA Female



LB-137-20-C-SFSPO Standard
Gain Horn Antenna 5.85-8.2GHz
20dB Gain SMA Female



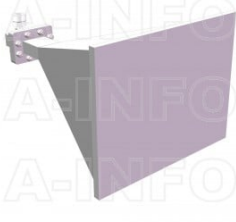
LB-137-20-C-TF Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain TNC Female



LB-137-20-C-TFSPO Standard
Gain Horn Antenna 5.85-8.2GHz
20dB Gain TNC Female



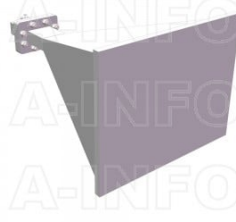
LB-137-20-C-7 Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain 7mm



LB-137-20-C-7SPO Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain 7mm



LB-137-20-C-3.5F Standard Gain
Horn Antenna 5.85-8.2GHz 20dB
Gain 3.5mm Female



LB-137-20-C-3.5FSPO Standard
Gain Horn Antenna 5.85-8.2GHz
20dB Gain 3.5mm Female

About this Datasheet

• Product Information

Product Link:
<https://www.ainfoinc.com/lb-137-20-a-standard-gain-horn-antenna-5-85-8-2-ghz-20db-gain-fdp70>
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