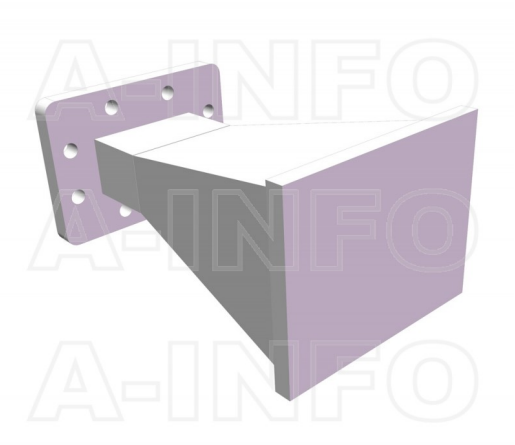


LB-137-10-ASPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 5.85GHz to 8.2GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-137-10-ASPO

Description

Standard Gain Horn Antenna LB-137-10-ASPO, operating from 5.85 to 8.2GHz with a nominal 10dB gain and low VSWR 1.25:1 with FDP70 output. The model LB-137-10-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	
Frequency, Min (GHz)	5.85
Frequency, Max (GHz)	8.2
Waveguide Type	Rectangular
Waveguide Size EIA WR	WR137
Gain, Typ (dBi)	10
Polarization	Linear
3dB Beamwidth, E-Plane, Typ (Deg.)	42
3dB Beamwidth, H-Plane, Typ (Deg.)	41
Cross Pol. Isolation, Typ (dB)	30
VSWR, Typ	1.25:1

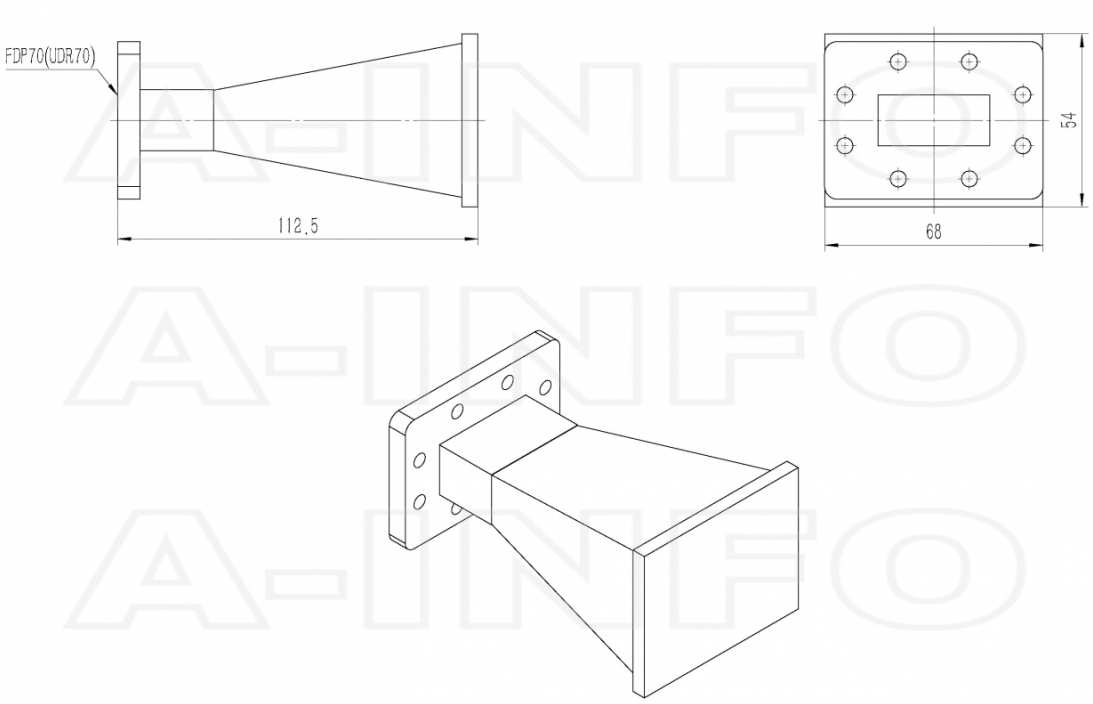
Interface	
Output Type	Waveguide
Flange Style	Rectangular
Flange Type	Cover
Flange Designation	FDP70(UDR70)
Mechanical Specification	
Figure	A Type
Body Material	Al
Finish	Chemical Conversion Coating, Gray Paint
Size, W (mm)	68.3
Size, H (mm)	54
Size, L (mm)	112.5
Weight, (kg)	0.15

Additional Information

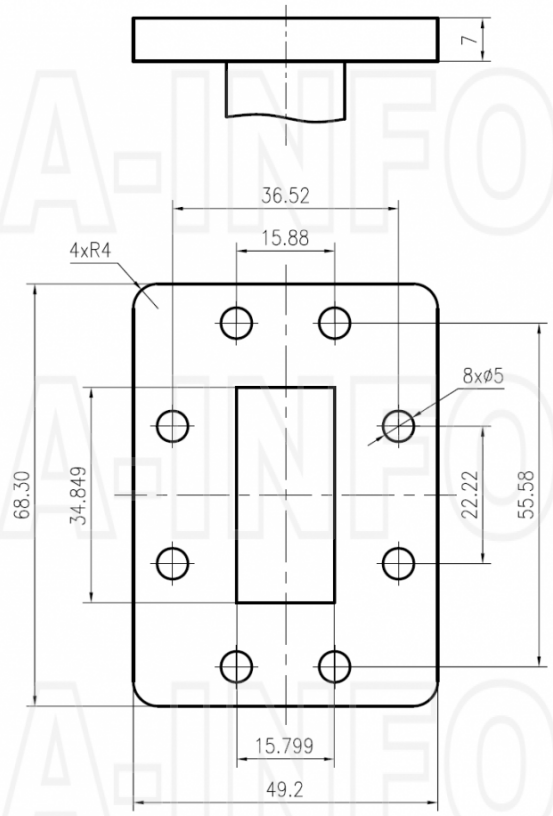
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement

Outline Drawing

FDP70 Output with Radome (Option, P/N: LB-137-10-ASPO, Outdoor Application)



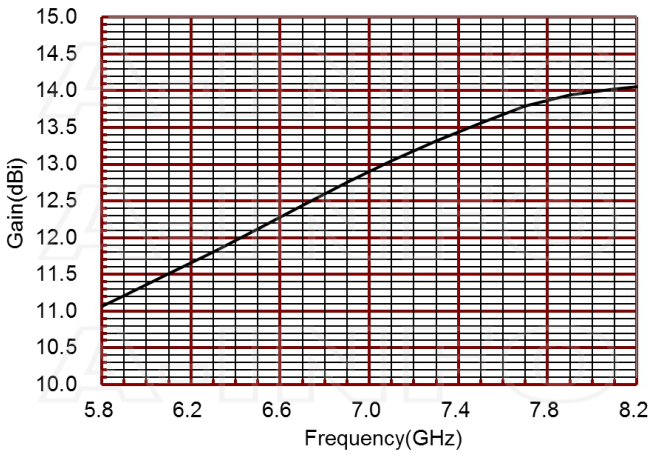
Flange Drawing



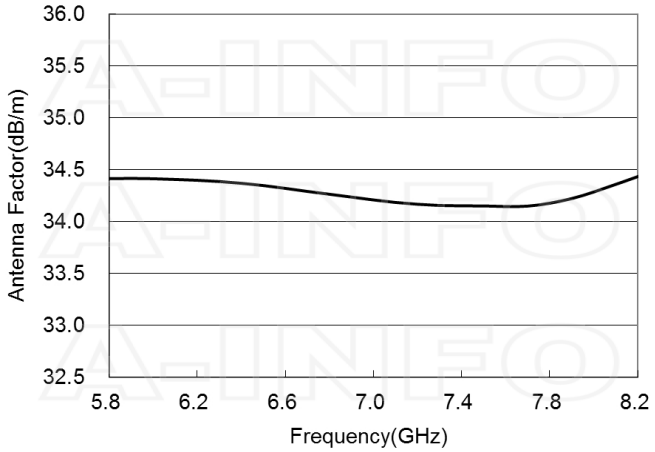
FDP70

Typical Test Results

Gain



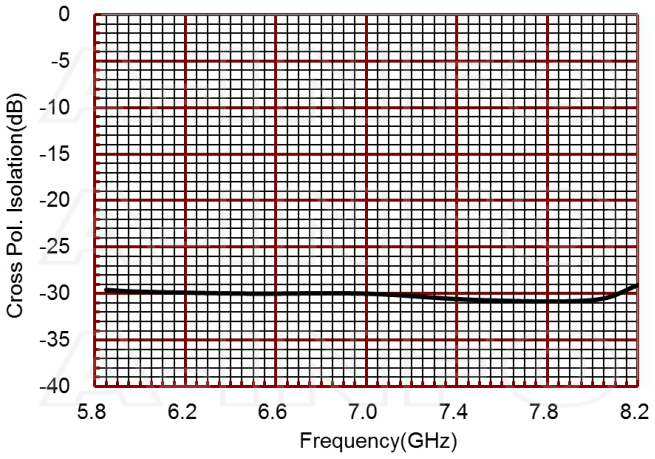
Antenna Factor



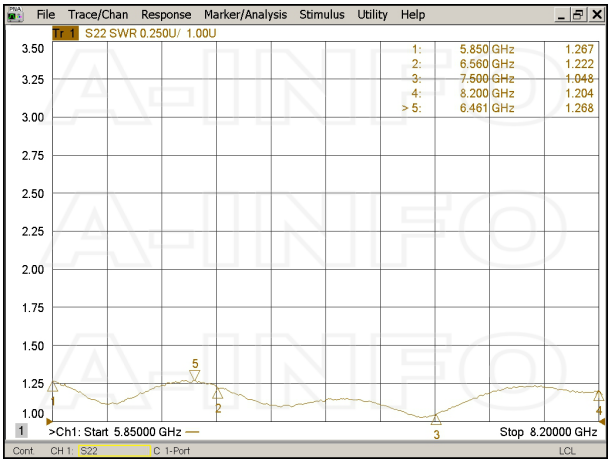
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
5.7	10.92	34.41
5.9	11.21	34.42
6.1	11.51	34.41
6.3	11.81	34.39
6.5	12.12	34.35
6.7	12.44	34.29
6.9	12.75	34.24
7.1	13.05	34.19
7.3	13.32	34.16
7.5	13.56	34.15
7.7	13.79	34.15
7.9	13.94	34.22
8.1	14.02	34.36
8.3	14.08	34.51

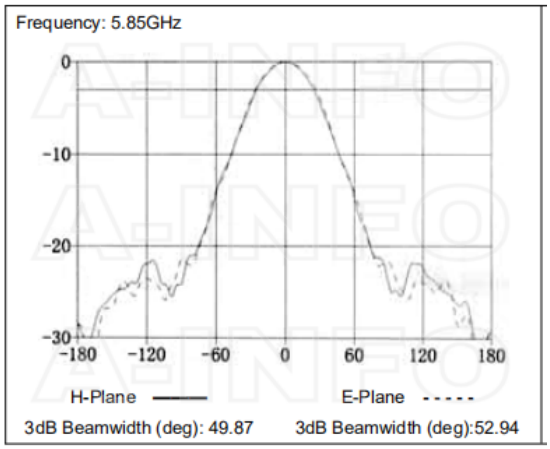
Cross Polarization Isolation

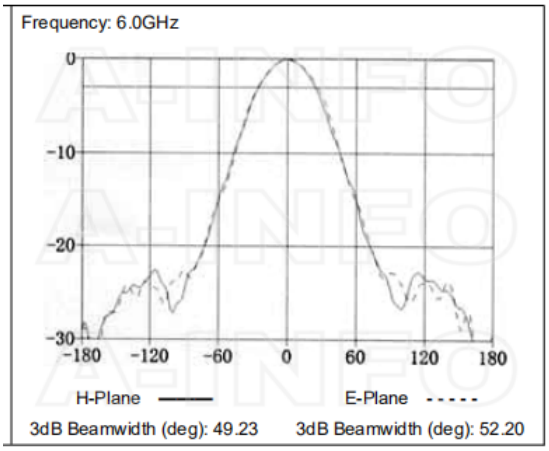


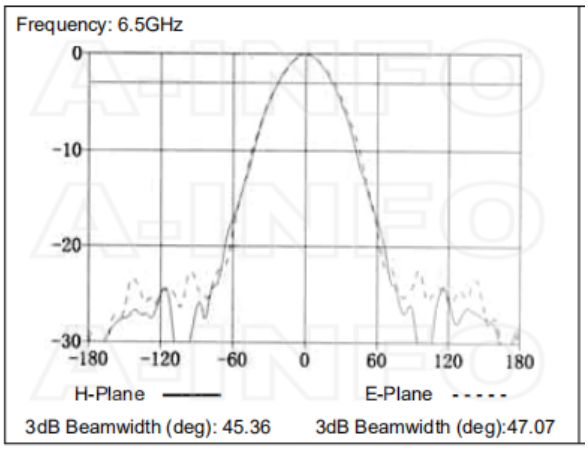
VSWR

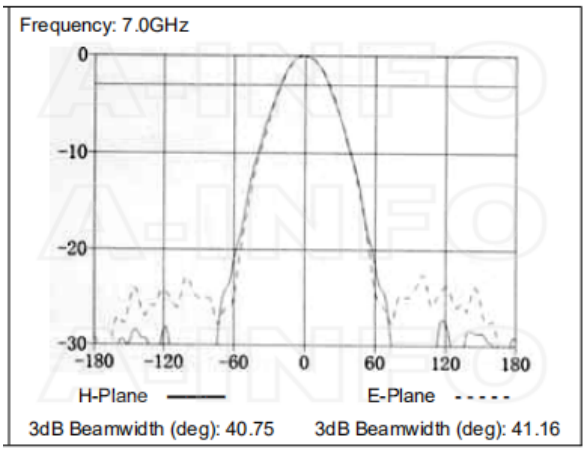


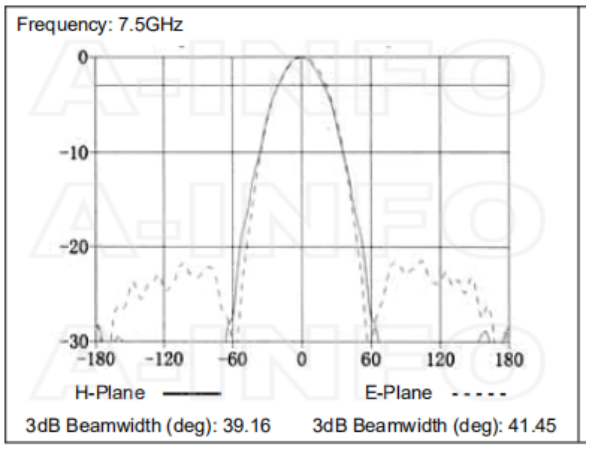
Pattern

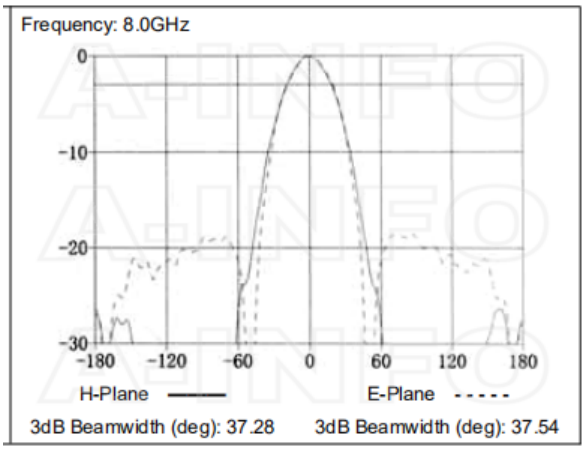


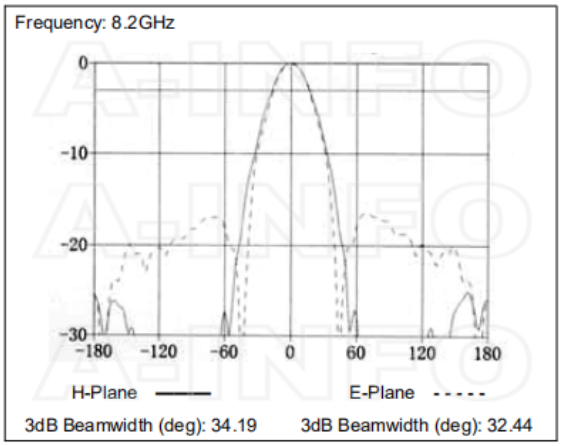












Related Products

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

137WECAK 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-137-10-A Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain Rectangular Waveguide Interface

LB-137-10-C-NF Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain N Type Female

LB-137-10-C-NFSPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain N Type Female

LB-137-10-C-SF Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain SMA Female

LB-137-10-C-SFSPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain SMA Female

LB-137-10-C-TF Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain TNC Female

LB-137-10-C-TFSPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain TNC Female

LB-137-10-C-7 Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain 7mm

LB-137-10-C-7SPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain 7mm

LB-137-10-C-3.5F Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain 3.5mm Female

LB-137-10-C-3.5FSPO Standard Gain Horn Antenna 5.85-8.2GHz 10dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-137-10-aspo-standard-gain-horn-antenna-5-85-8-2-ghz-10db-gain-fdp70 Data subject to change without notice. 	● 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