



LB-22-25-A2SPO Standard Gain Horn Antenna 33-50GHz 25dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 33GHz to 50GHz With a Nominal 25dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-22-25-A2SPO
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Description

Standard Gain Horn Antenna LB-22-25-A2SPO, operating from 33 to 50GHz with a nominal 25dB gain and low VSWR 1.15:1 with FUGP400 output. The model LB-22-25-A2SPO 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

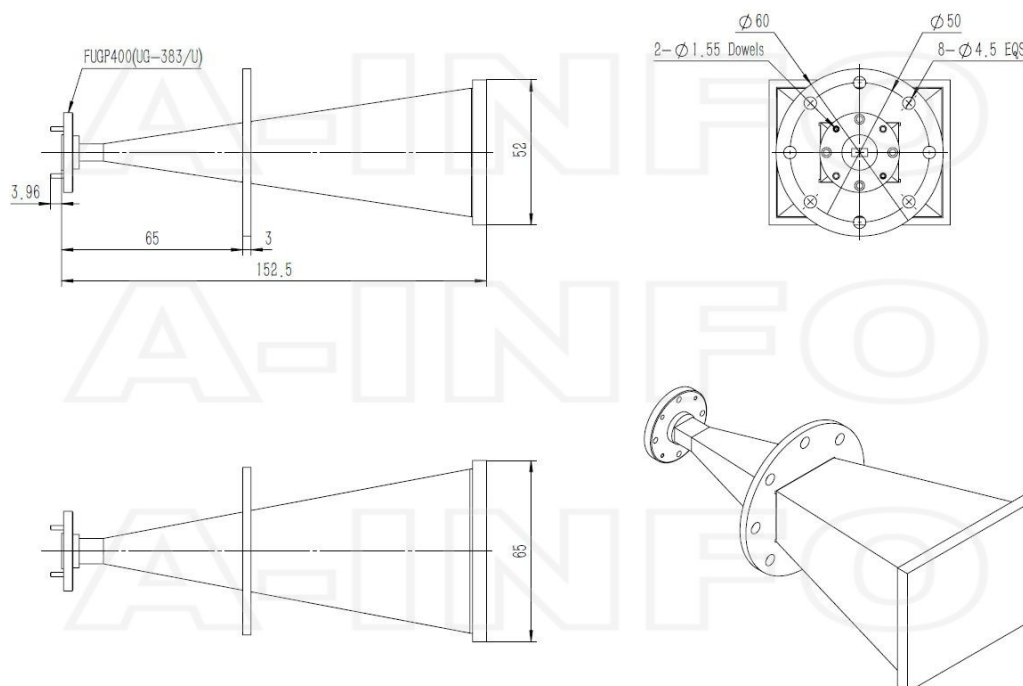
Electrical Specification		Interface	
Frequency, Min (GHz)	33	Output Type	Waveguide
Frequency, Max (GHz)	50	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR22	Flange Designation	FUGP400(UG-383/U)
Gain, Typ (dBi)	25	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	9	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	10	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	35	Finish	Silver Plated, Gray Paint
VSWR, Typ	1.15:1	Size, W (mm)	65
		Size, H (mm)	60
		Size, L (mm)	152.5
		Weight, (kg)	0.27

Additional Information

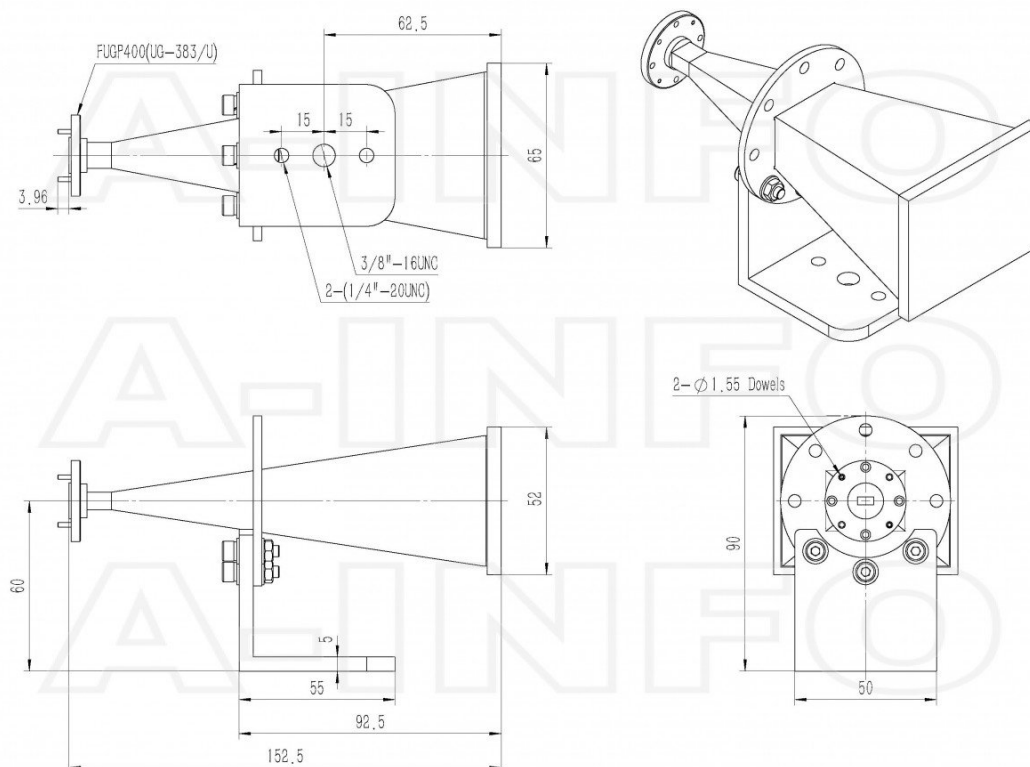
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

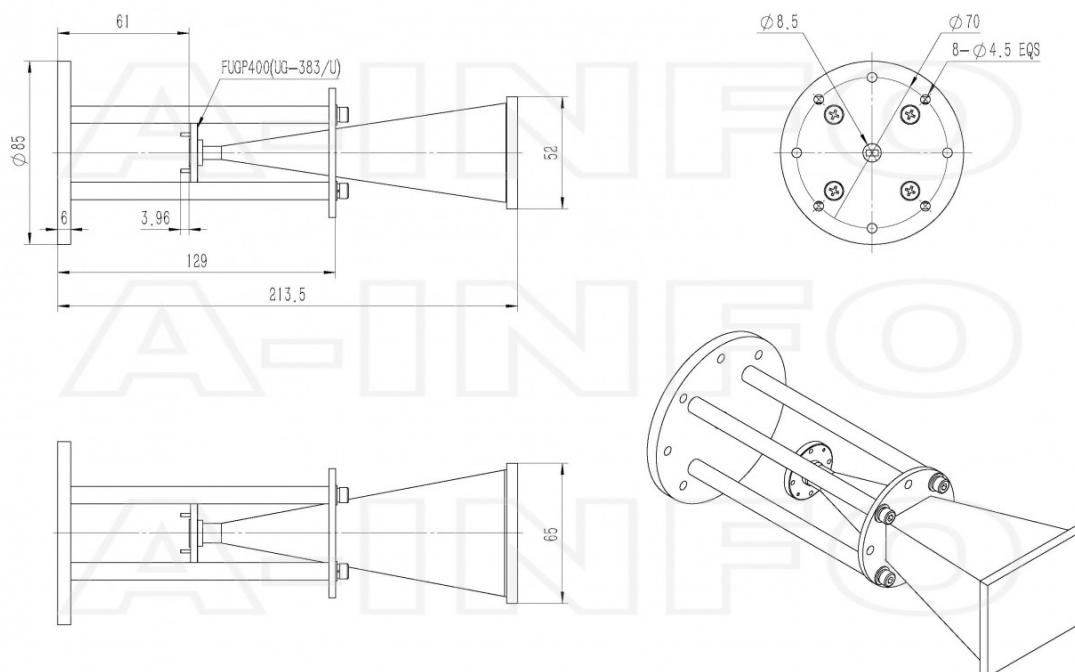
FUGP400 Output with Radome (Option, P/N: LB-22-25-A2SPO, Outdoor Application)



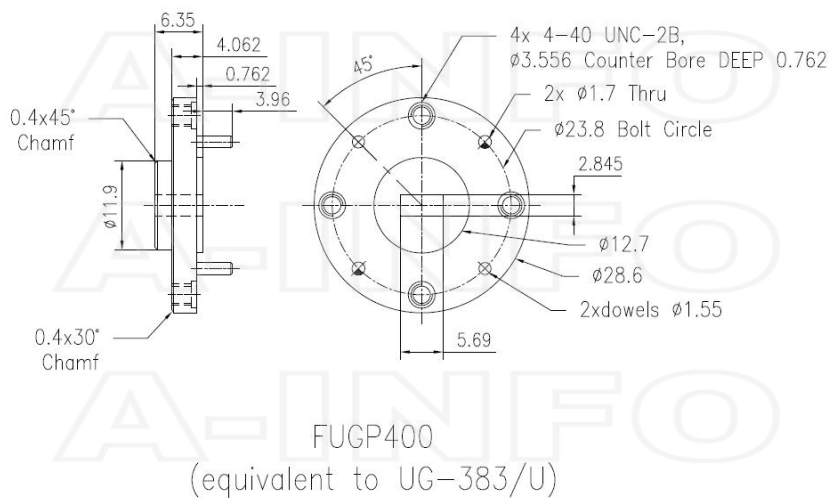
FUGP400 Output with L Type Mounting Bracket & Radome (Option, P/N: LB-22-25-L2 & LB-22- 25-A2SPO, Outdoor Application)



FUGP400 Output with Round Mounting Bracket & Radome (Option, P/N: LB-22-25-MB2 & LB-22-25-A2SPO, Outdoor Application)

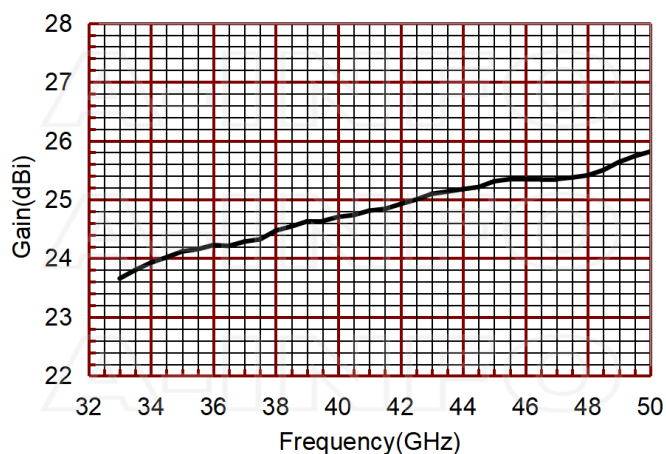


Flange Drawing

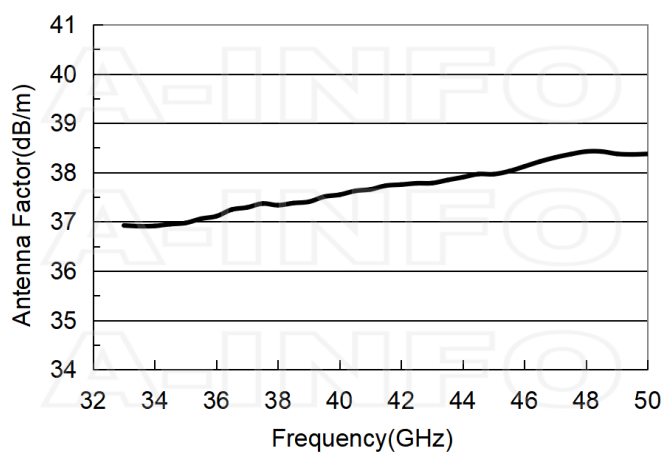


Typical Test Results

Gain



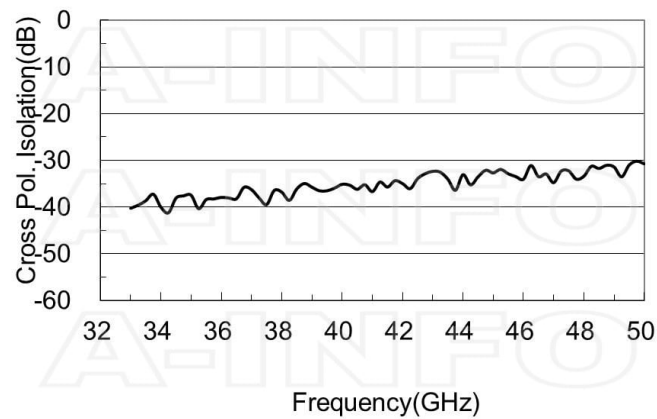
Antenna Factor



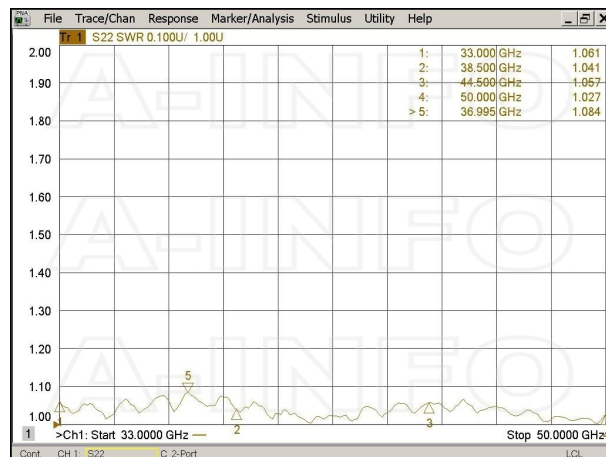
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
33.00	23.66	36.92
34.00	7.98	52.86
35.00	8.03	53.06
36.00	8.05	53.29
37.00	8.06	53.51
38.00	8.14	53.67
39.00	8.19	53.84
40.00	8.22	54.03
41.00	8.25	54.21
42.00	8.29	54.38
43.00	8.37	54.51
44.00	8.37	54.71
45.00	8.42	54.85
46.00	8.45	55.02
47.00	8.47	55.18
48.00	8.45	55.39
49.00	8.55	55.47
50.00	25.81	38.37

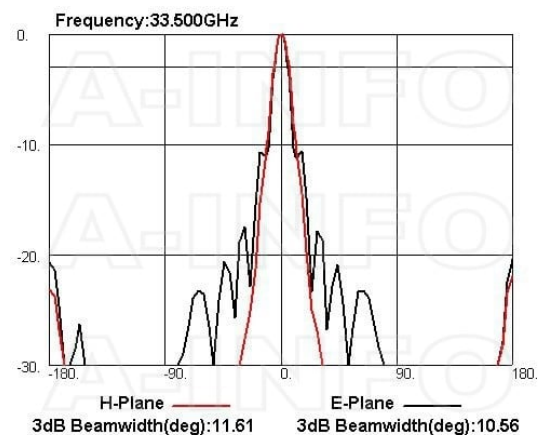
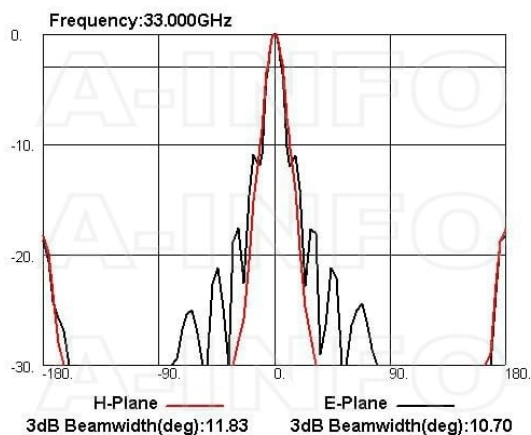
Cross Polarization Isolation

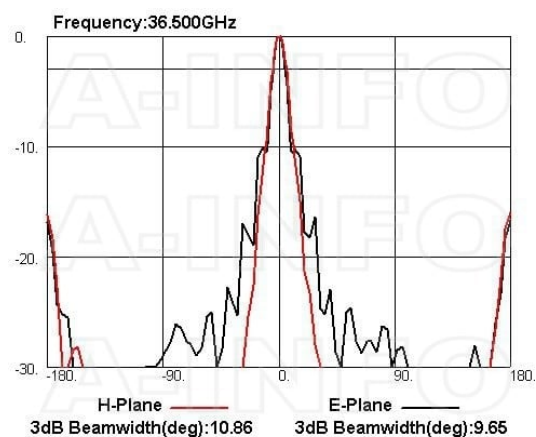
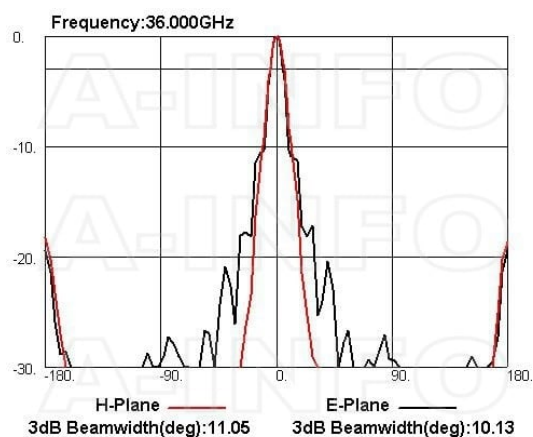
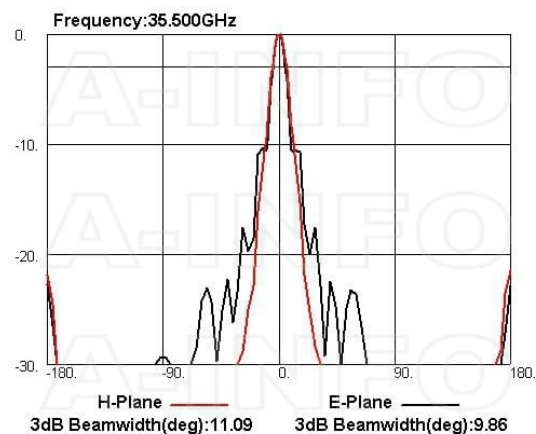
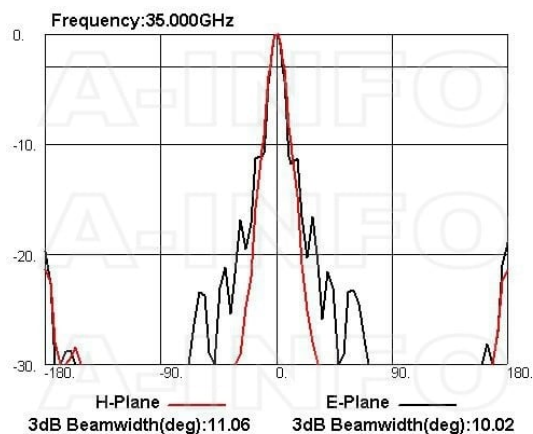
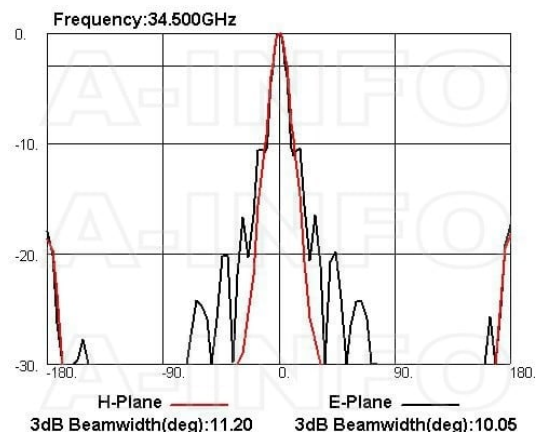
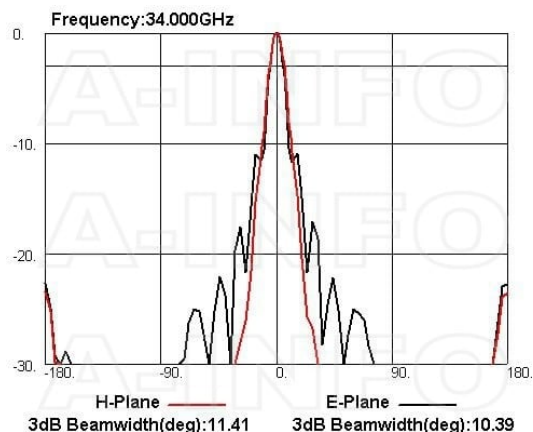


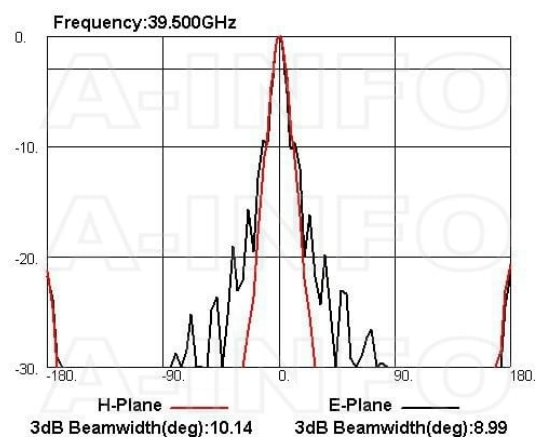
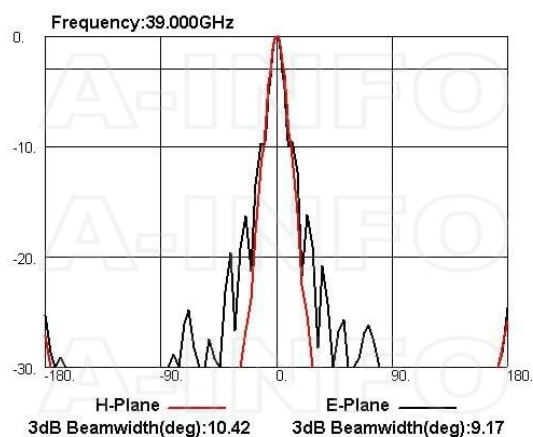
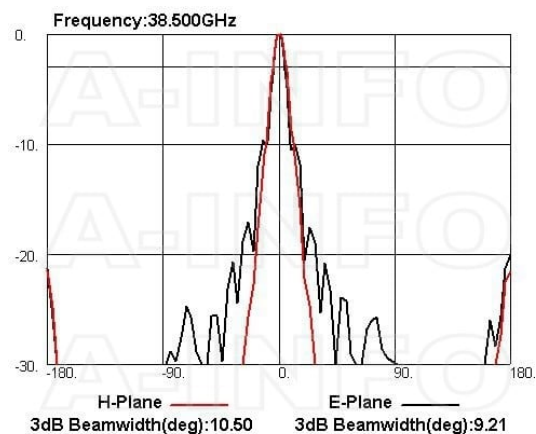
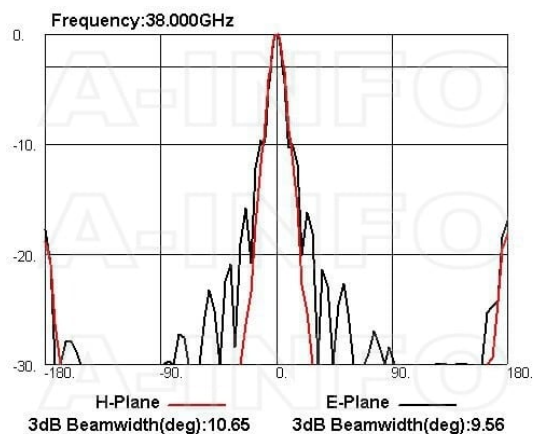
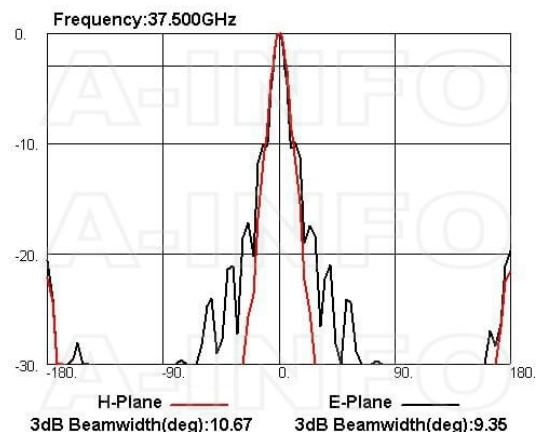
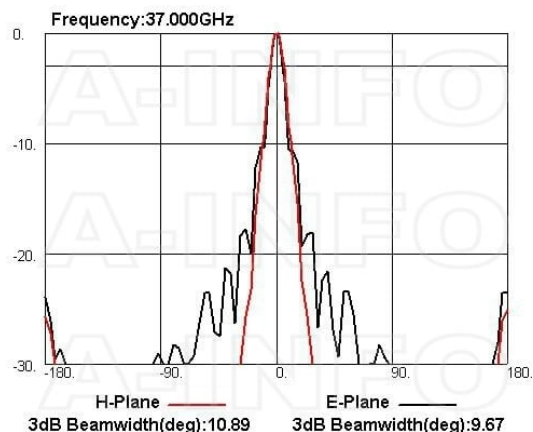
VSWR

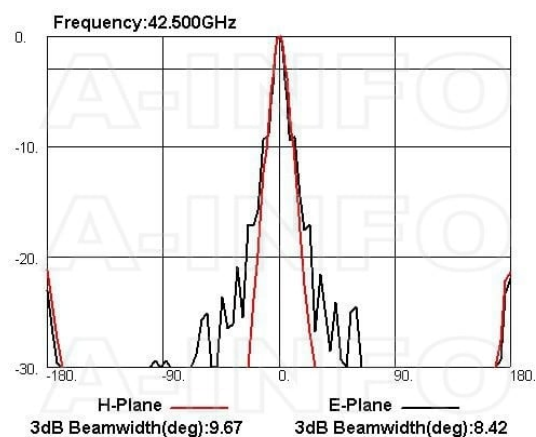
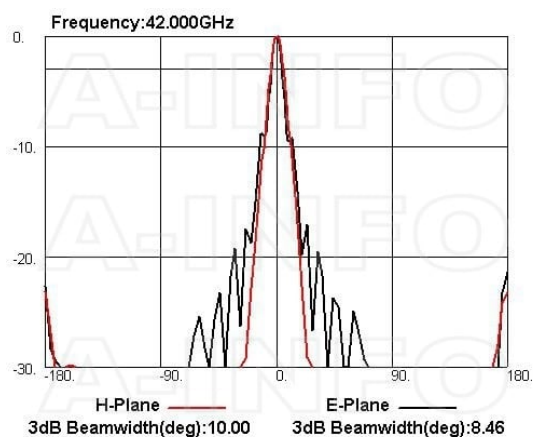
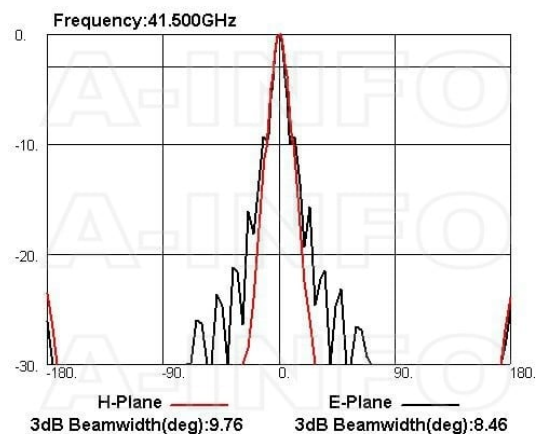
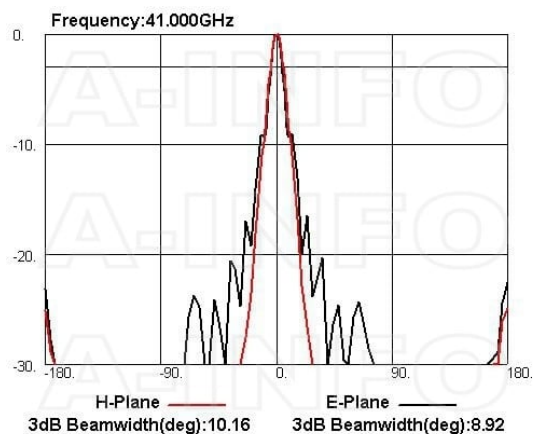
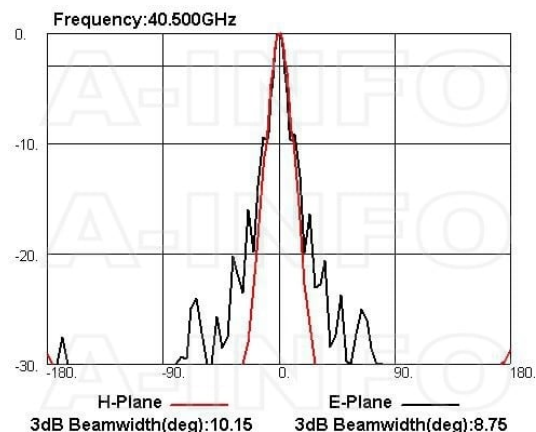
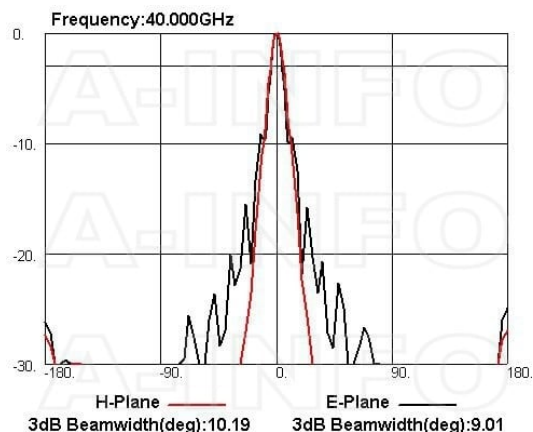


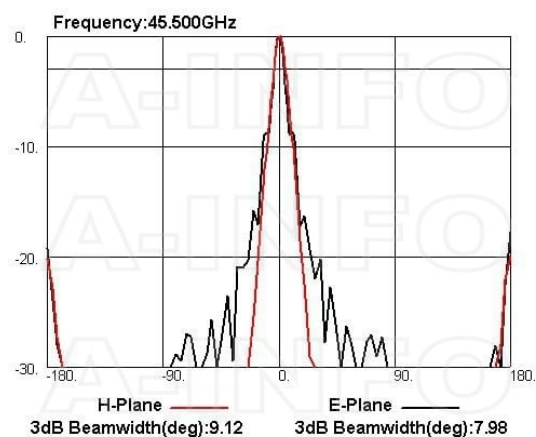
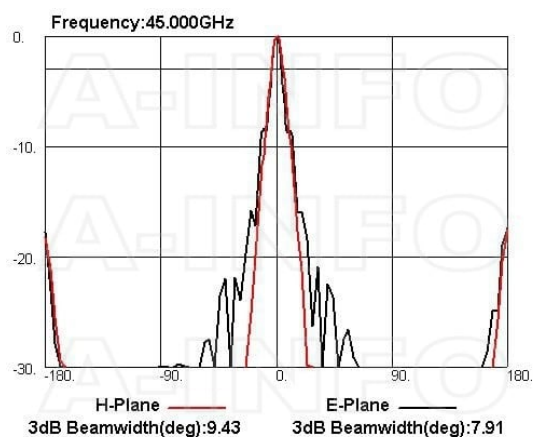
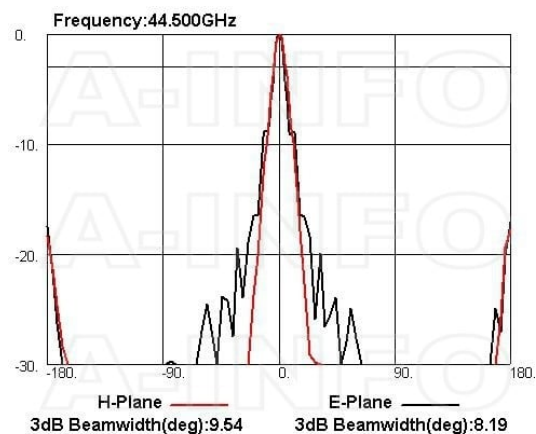
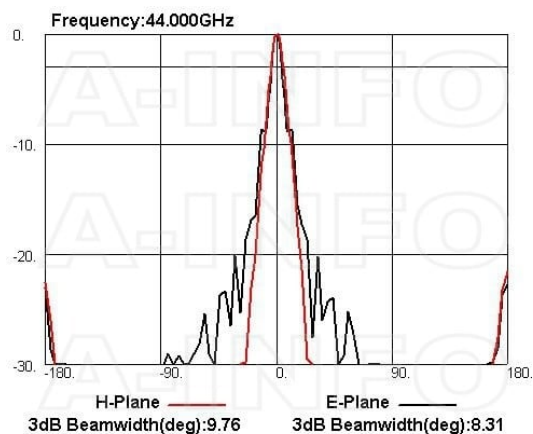
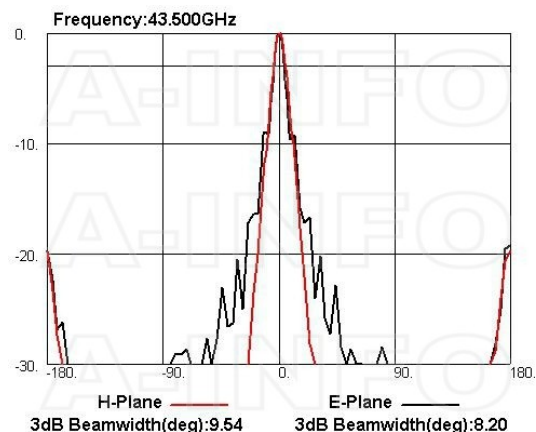
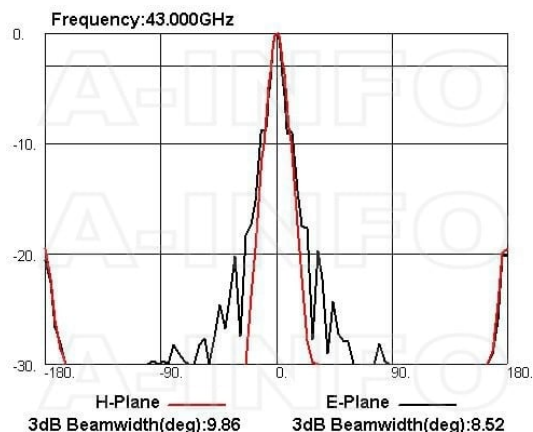
Pattern

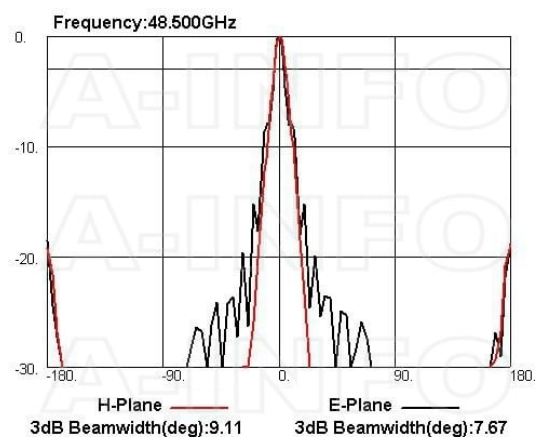
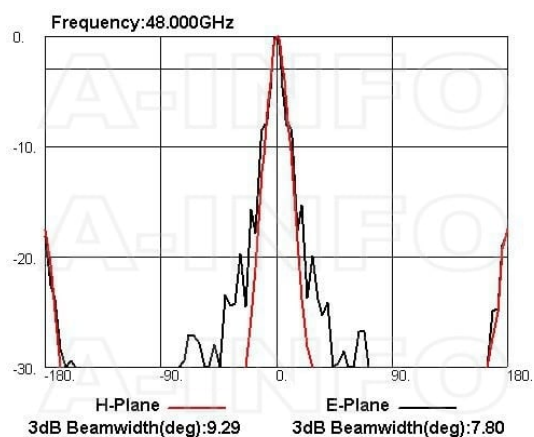
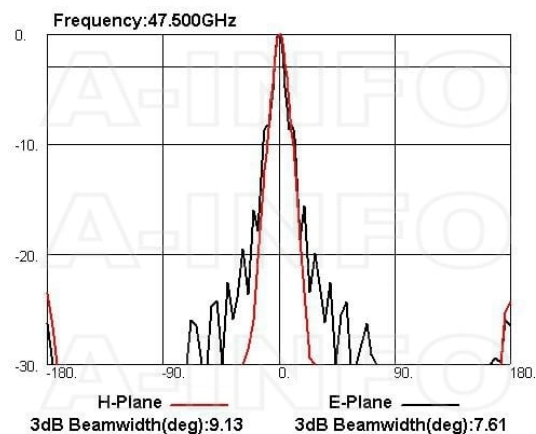
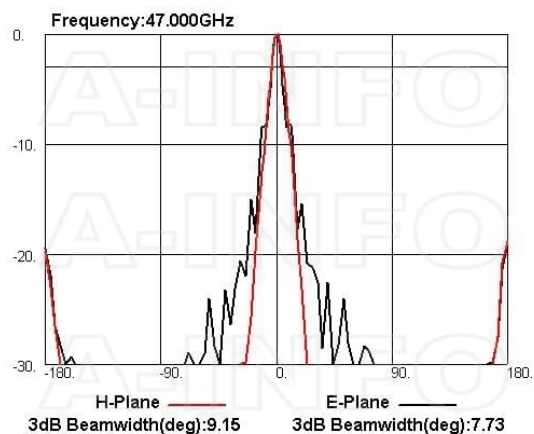
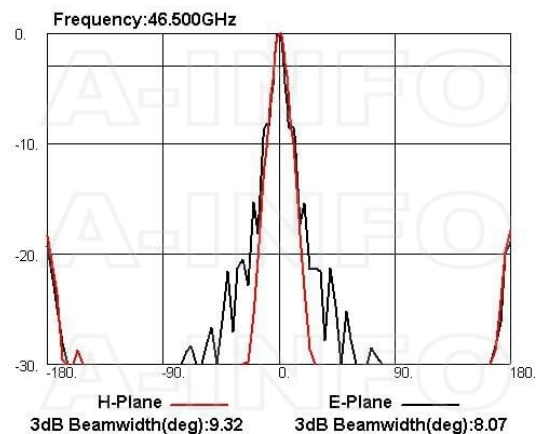
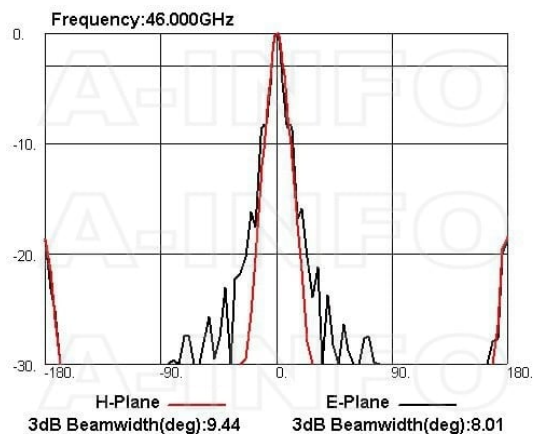


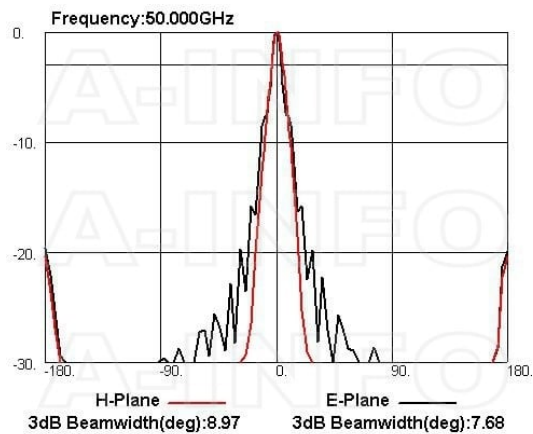
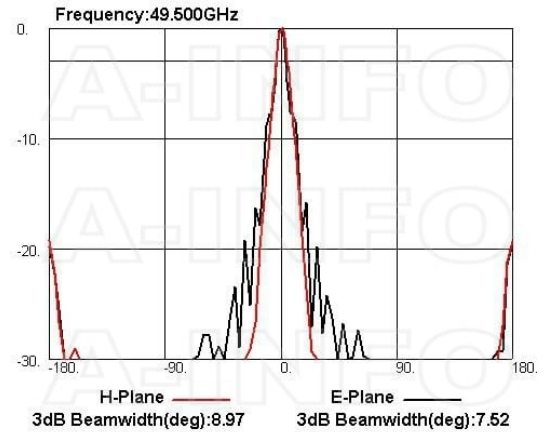
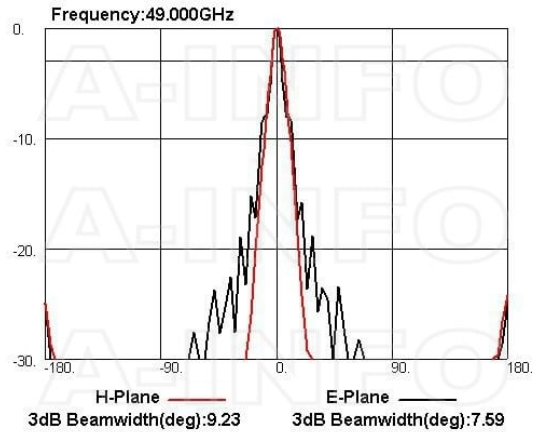












Related Products



22WCAK_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-40GHz WR22 to 2.92mm Female



22WCAKM_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-40GHz WR22 to 2.92mm Male



22WCA2.4_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 2.4mm Female



22WCA2.4M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 2.4mm Male



22WCA1.85_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 1.85mm Female



22WCA1.85M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 1.85mm Male



22WCA1.0_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 1.0mm Female



22WCA1.0M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 1.0mm Male



22WECA2.4_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 33-50GHz WR22 to 2.4mm Female



LB-22-25-MB2 Round Type Mounting Bracket



LB-22-25-L2 L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-22-25-C2 Al Alloy Carrying Case



HSCS_4-40UNC_Pack Assembly Pack

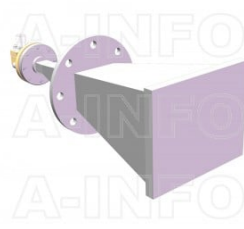
Similar Products



LB-22-25-A2 Standard Gain Horn Antenna 33-50GHz 25dB Gain Rectangular Waveguide Interface



LB-22-25-C2-2.4F Standard Gain Horn Antenna 33-50GHz 25dB Gain 2.4mm Female



LB-22-25-C2-2.4FSPO Standard Gain Horn Antenna 33-50GHz 25dB Gain 2.4mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-22-25-a2spo-standard-gain-horn-antenna-33-50-ghz-25db-gain-fugp400 Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	● Contact Us Address: 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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