

LB-22-20-A Standard Gain Horn Antenna 33-50GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 33GHz to 50GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface



Product Information

SKU	LB-22-20-A
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Description

Standard Gain Horn Antenna LB-22-20-A, operating from 33 to 50GHz with a nominal 20dB gain and low VSWR 1.1:1 with FUGP400 output. The model LB-22-20-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

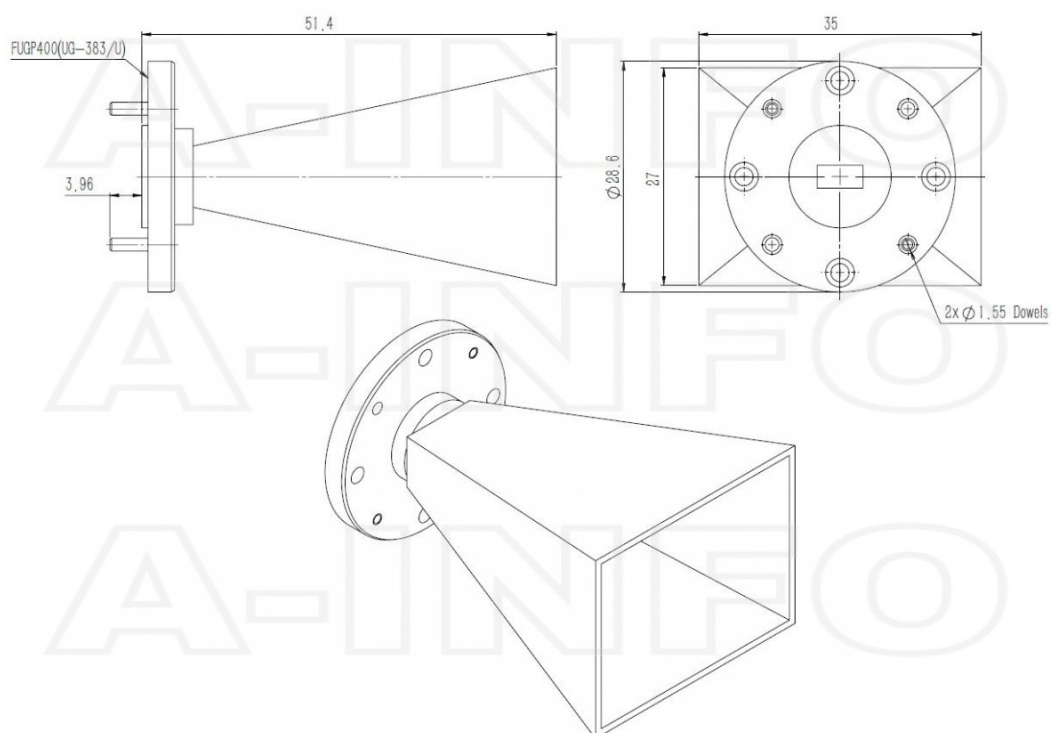
Electrical Specification		Interface	
Frequency, Min (GHz)	33	Output Type	Waveguide
Frequency, Max (GHz)	50	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR22	Flange Designation	FUGP400(UG-383/U)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	40	Finish	Silver Plated, Gray Paint
VSWR, Typ	1.1:1	Size, W (mm)	35
		Size, H (mm)	28.6
		Size, L (mm)	51.4
		Weight, (kg)	0.06

Additional Information

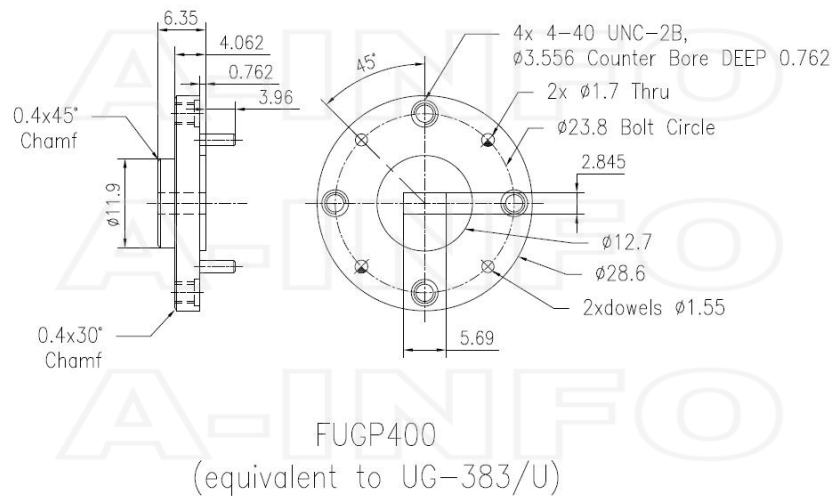
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FUGP400 Output (P/N: LB-22-20-A)

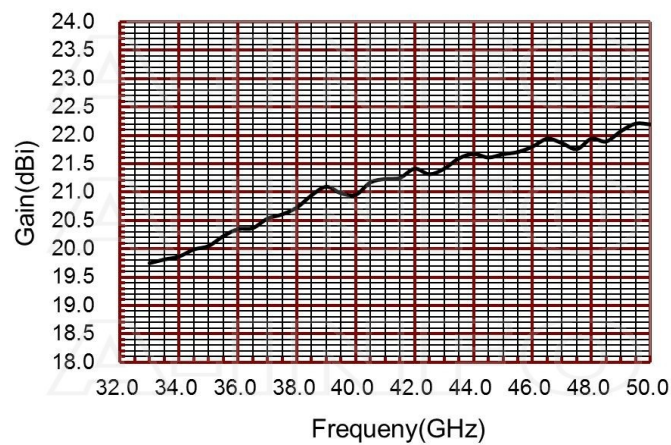


Flange Drawing

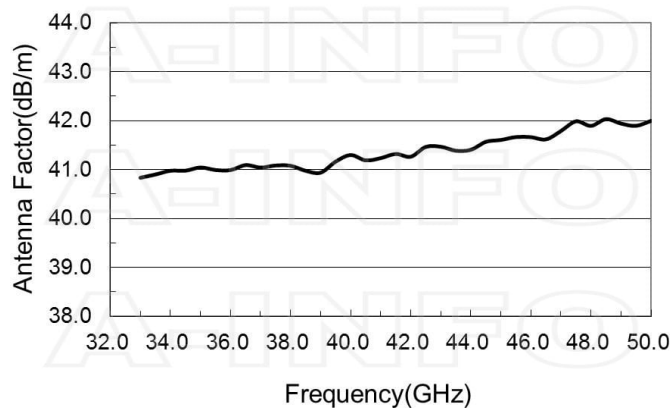


Typical Test Results

Gain



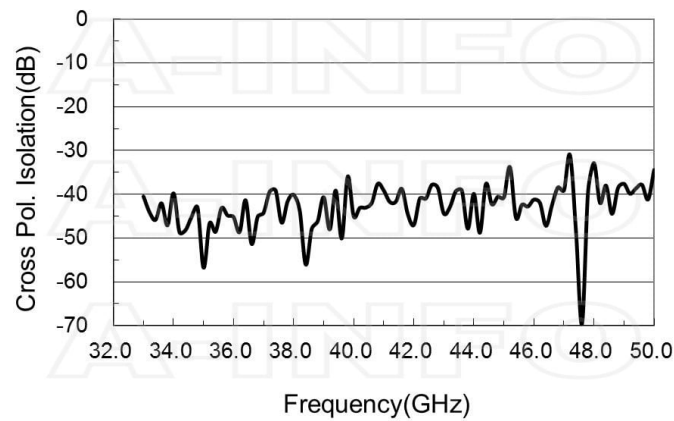
Antenna Factor



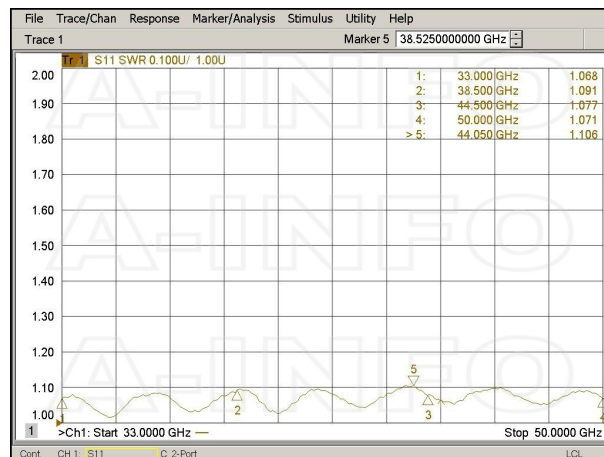
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
33.0	19.75	40.83		42.0	21.41	41.26
33.5	19.81	40.90		42.5	21.31	41.46
34.0	19.86	40.98		43.0	21.41	41.47
34.5	19.99	40.98		43.5	21.59	41.39
35.0	20.05	41.04		44.0	21.67	41.41
35.5	20.22	40.99		44.5	21.61	41.57
36.0	20.35	40.99		45.0	21.67	41.61
36.5	20.36	41.09		45.5	21.71	41.66
37.0	20.53	41.04		46.0	21.80	41.66
37.5	20.61	41.08		46.5	21.94	41.62
38.0	20.73	41.08		47.0	21.86	41.79
38.5	20.94	40.98		47.5	21.76	41.99
39.0	21.09	40.94		48.0	21.94	41.89
39.5	20.98	41.16		48.5	21.89	42.03
40.0	20.95	41.30		49.0	22.07	41.94
40.5	21.17	41.19		49.5	22.21	41.89
41.0	21.23	41.23		50.0	22.19	42.00
41.5	21.25	41.32				

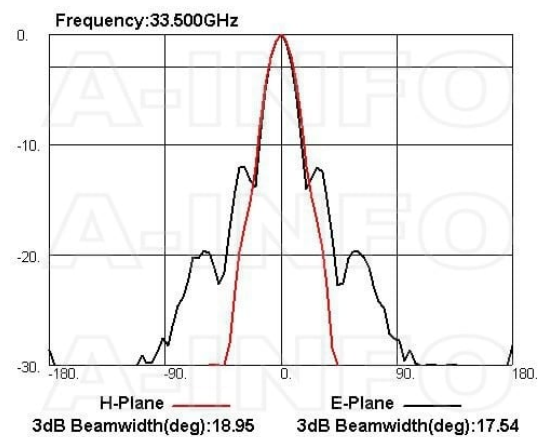
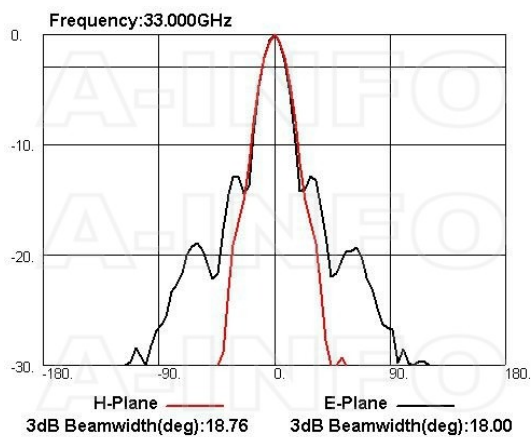
Cross Polarization Isolation

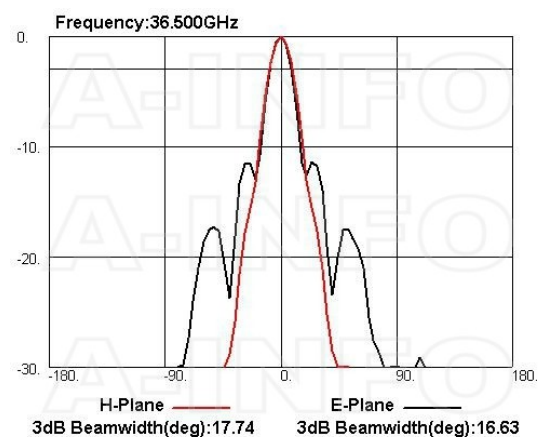
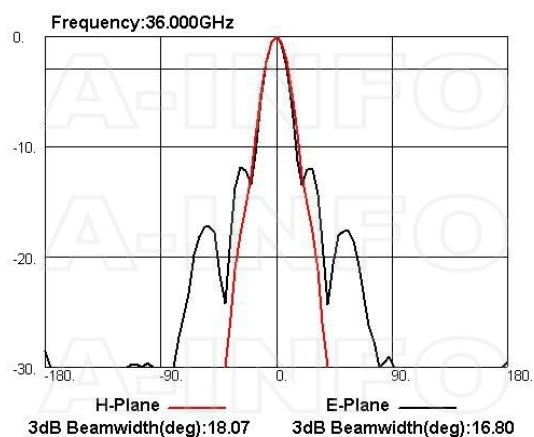
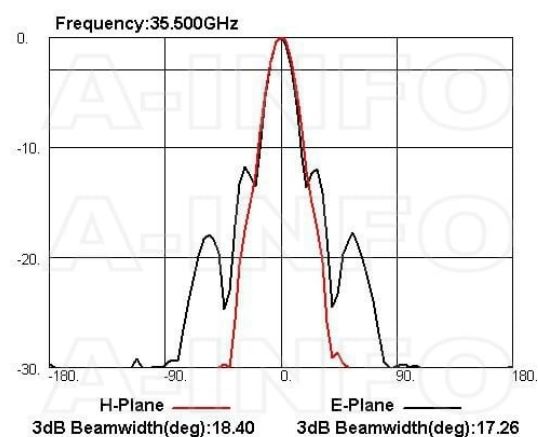
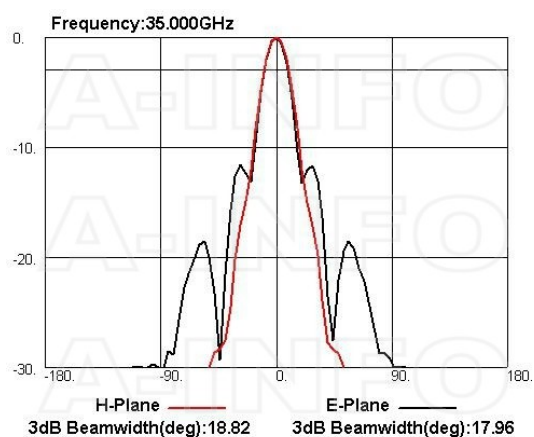
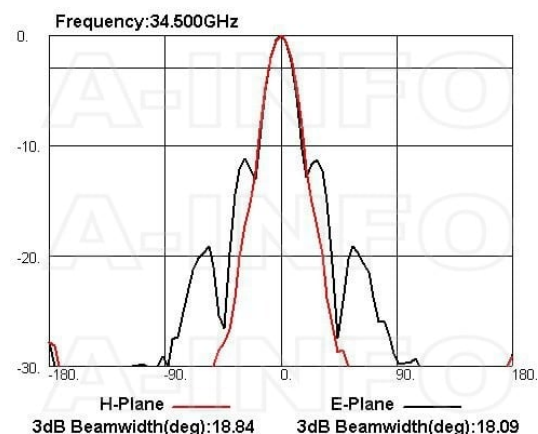
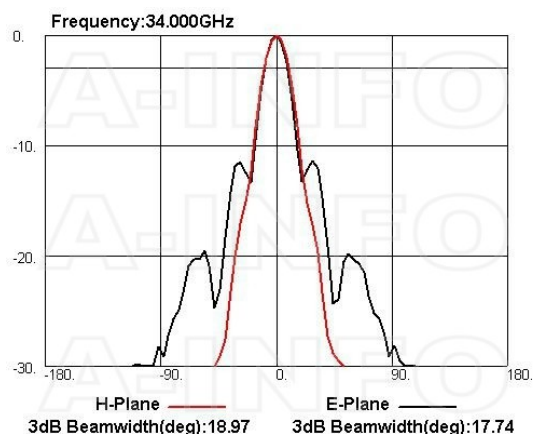


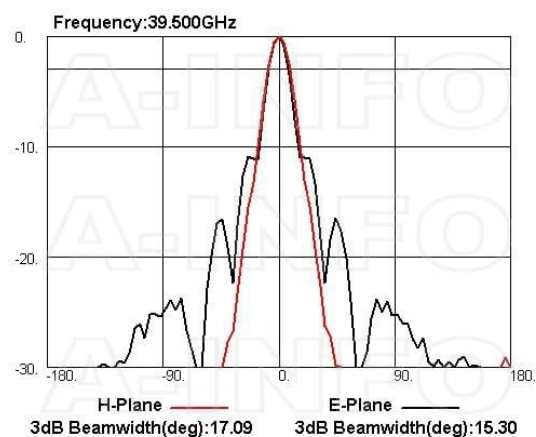
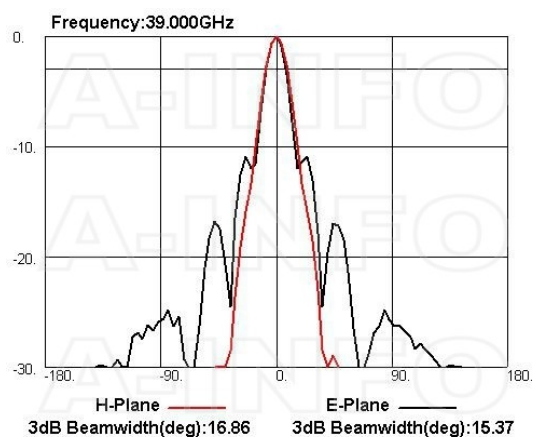
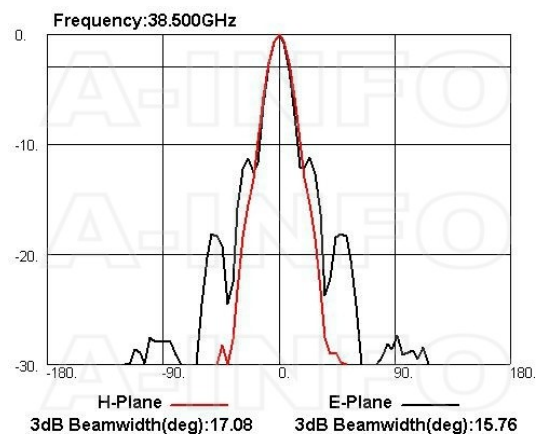
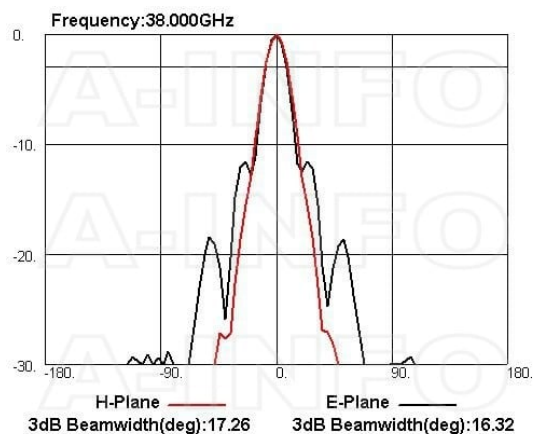
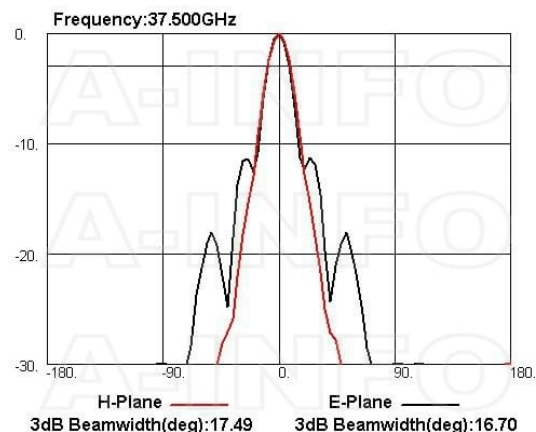
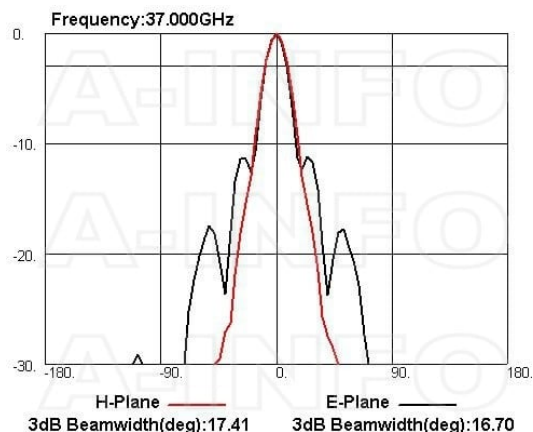
VSWR

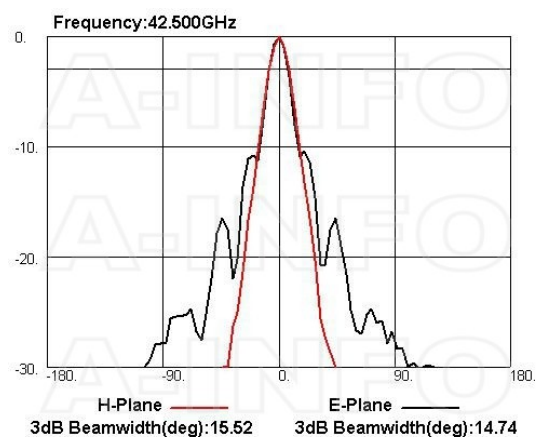
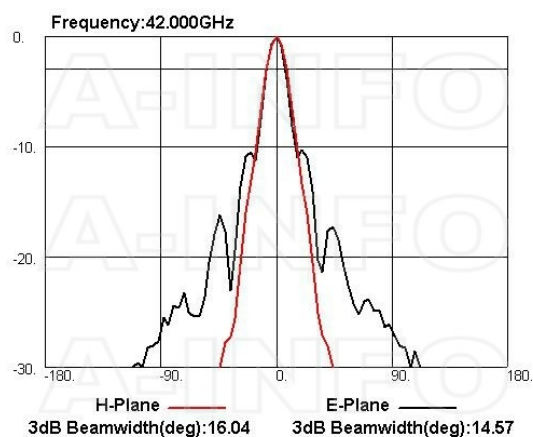
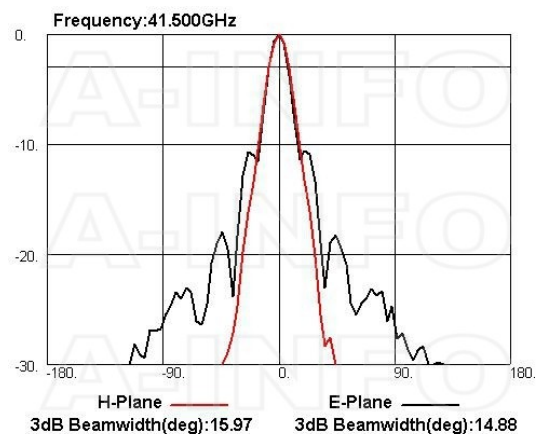
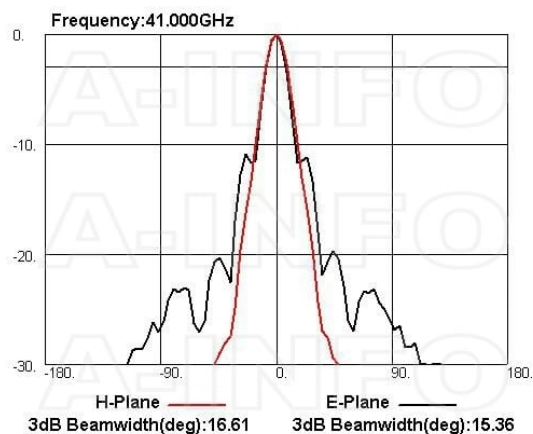
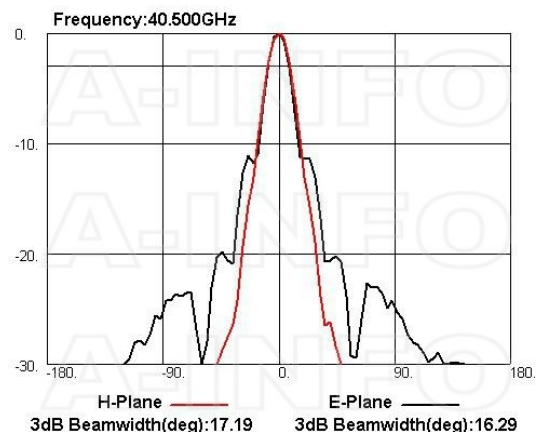
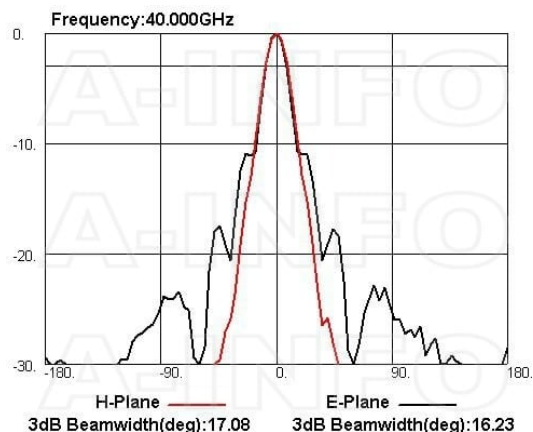


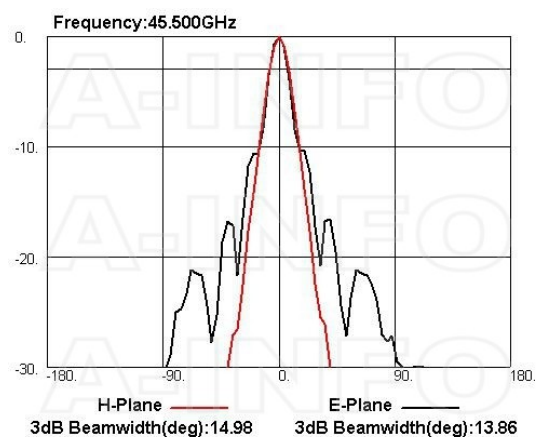
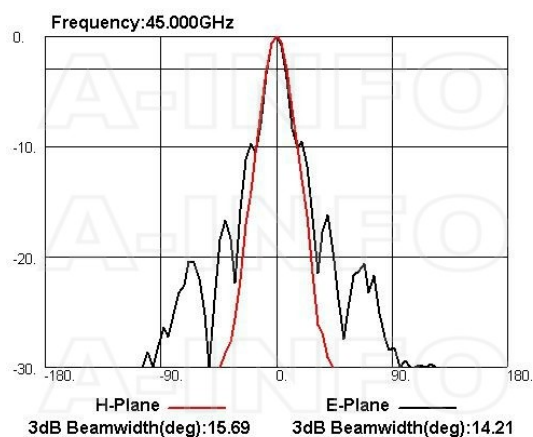
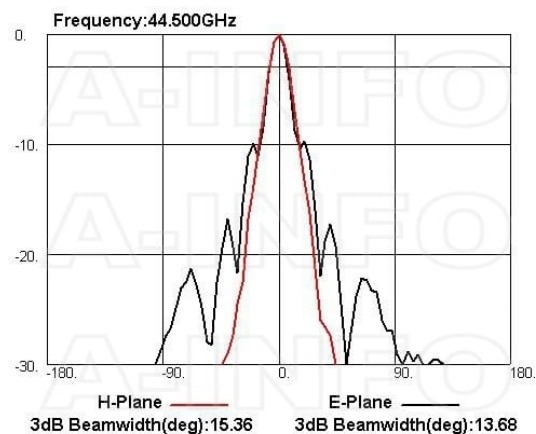
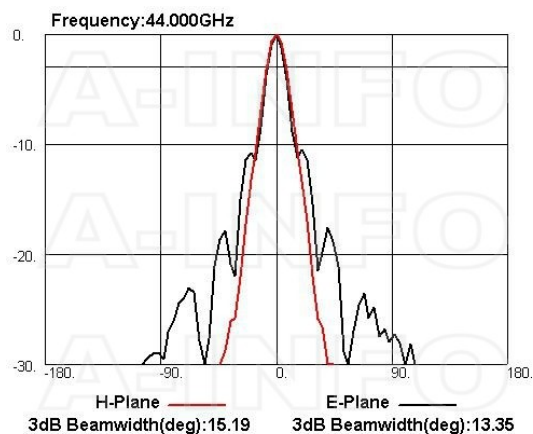
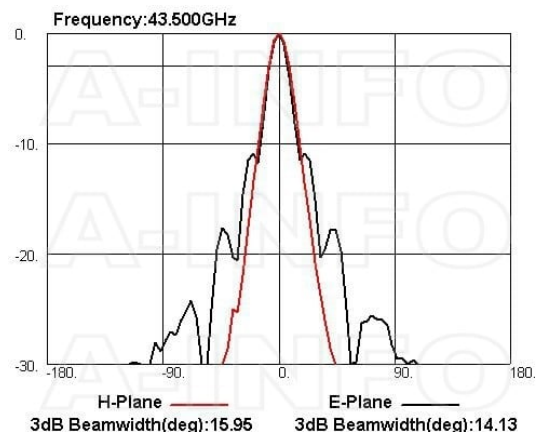
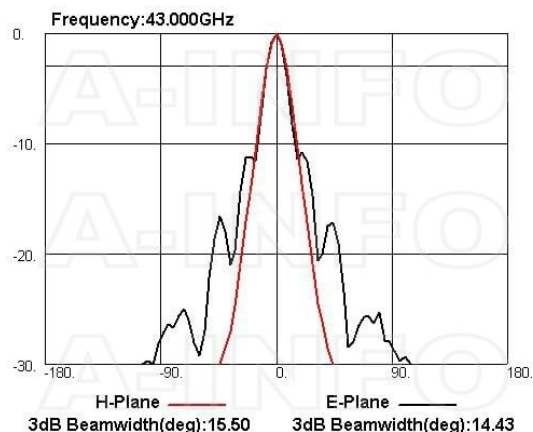
Pattern

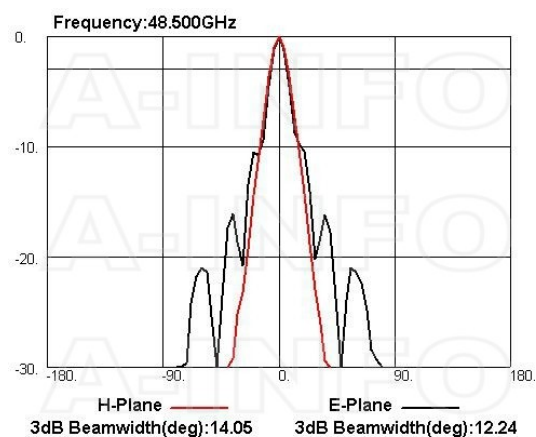
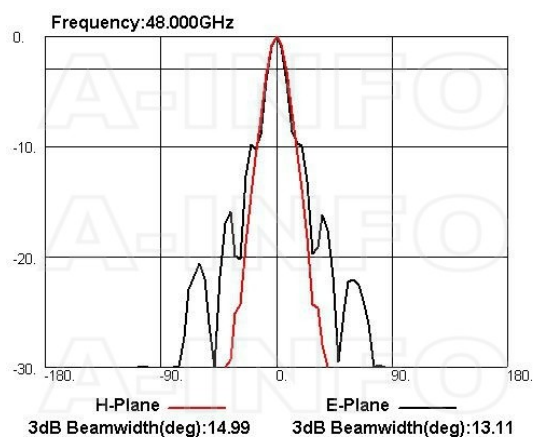
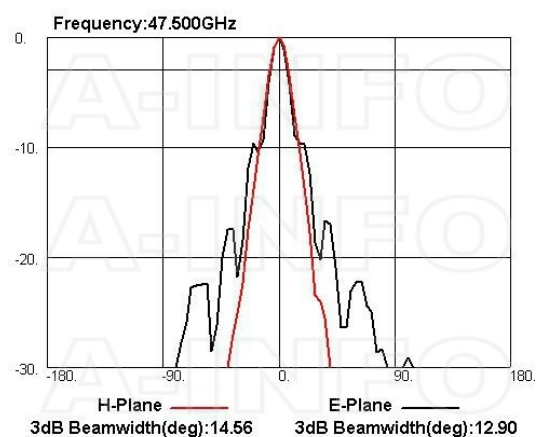
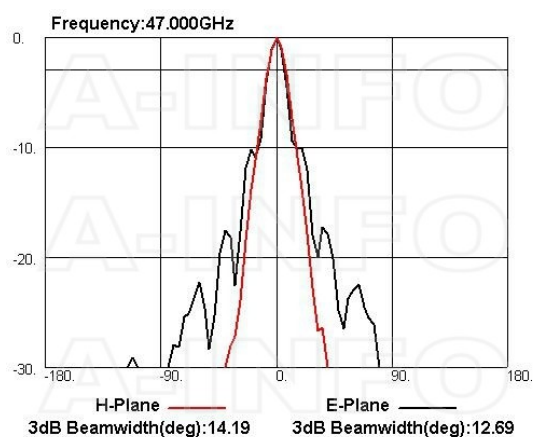
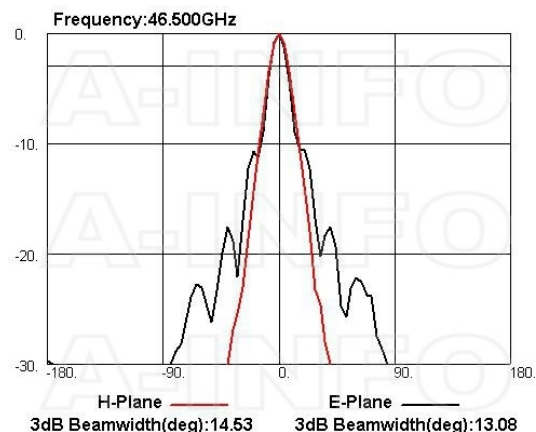
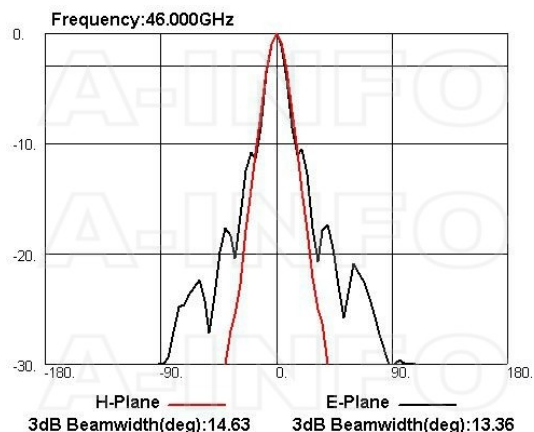


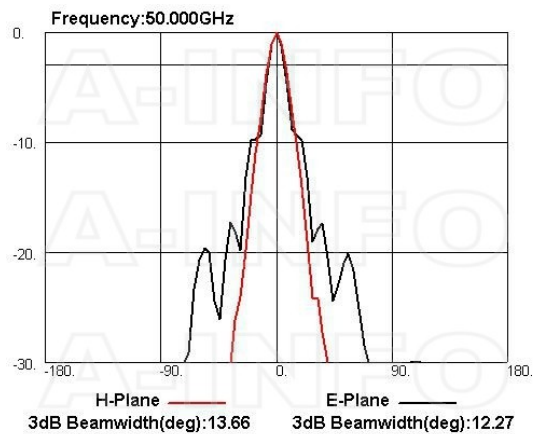
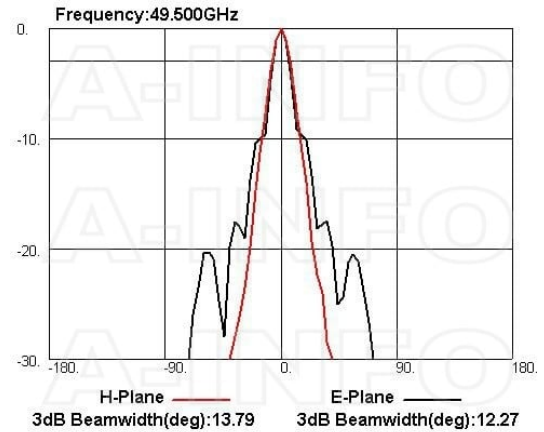
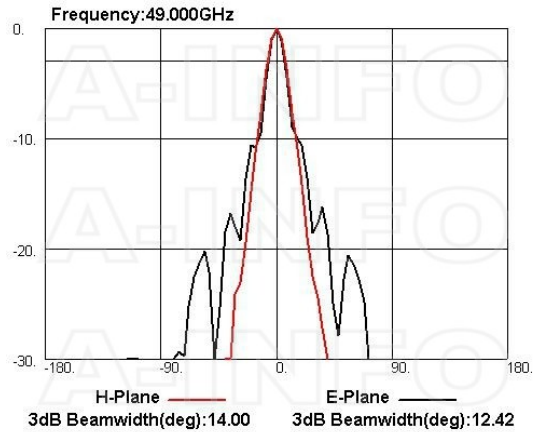












Related Products



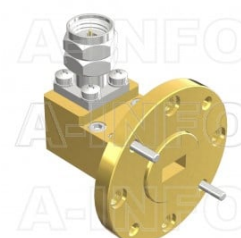
22WCAK_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 33-40GHz WR22 to 2.92mm Female



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



HSCS_4-40UNC_Pack Assembly Pack

Similar Products



LB-22-20-ASPO Standard Gain Horn Antenna 33-50GHz 20dB Gain Rectangular Waveguide Interface



LB-22-20-C-2.4F Standard Gain Horn Antenna 33-50GHz 20dB Gain 2.4mm Female



LB-22-20-C-2.4FSPO Standard Gain Horn Antenna 33-50GHz 20dB Gain 2.4mm Female

About this Datasheet

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