

LB-19-20-ASPO Standard Gain Horn Antenna 40-60GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 40GHz to 60GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface



Product Information

SKU	LB-19-20-ASPO
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Description

Standard Gain Horn Antenna LB-19-20-ASPO, operating from 40 to 60GHz with a nominal 20dB gain and low VSWR 1.15:1 with FUGP500 output. The model LB-19-20-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

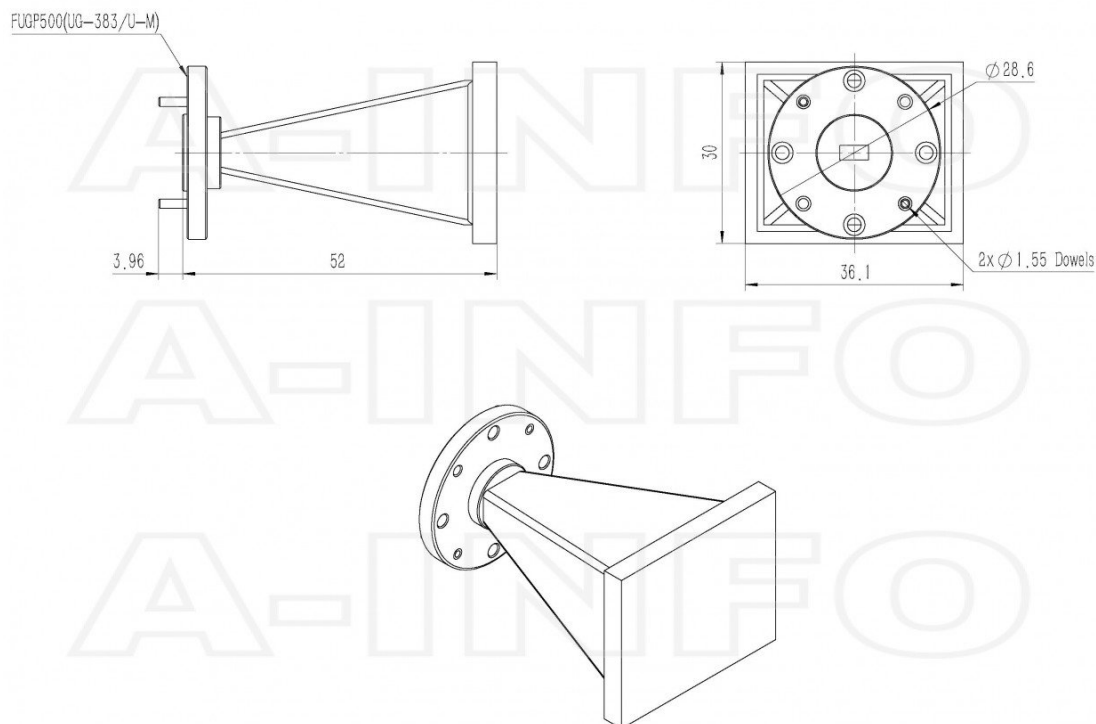
Electrical Specification		Interface	
Frequency, Min (GHz)	40	Output Type	Waveguide
Frequency, Max (GHz)	60	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR19	Flange Designation	FUGP500(UG-383/U-M)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	14	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	15	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	45	Finish	Gold Plated, Gray Paint
VSWR, Typ	1.15:1	Size, W (mm)	36.1
		Size, H (mm)	28.6
		Size, L (mm)	52
		Weight, (kg)	0.05

Additional Information

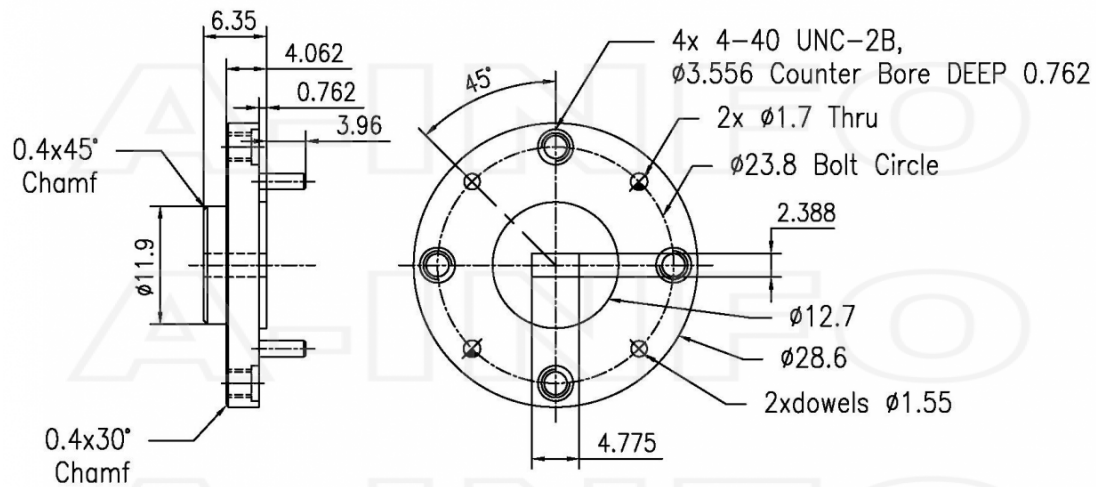
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FUGP500 Output with Radome (Option, P/N: LB-19-20-ASPO, Outdoor Application)



Flange Drawing

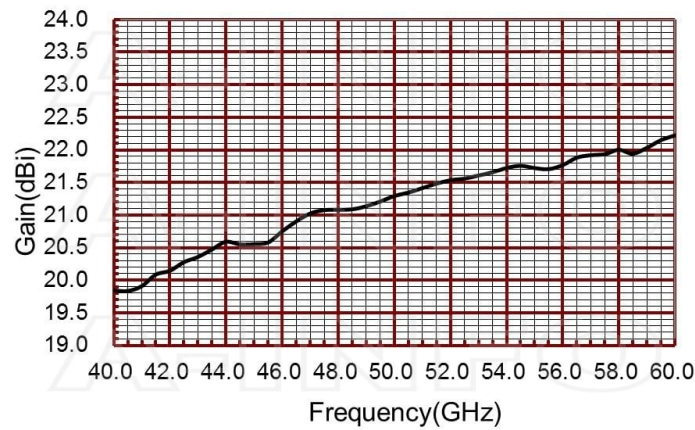


FUGP500

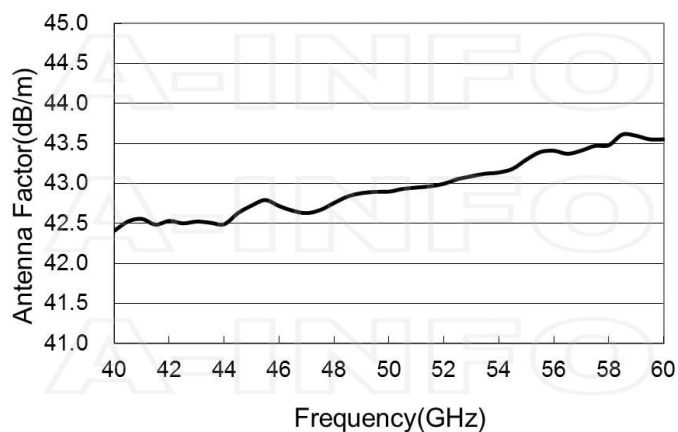
(equivalent to UG-383/U-M)

Typical Test Results

Gain



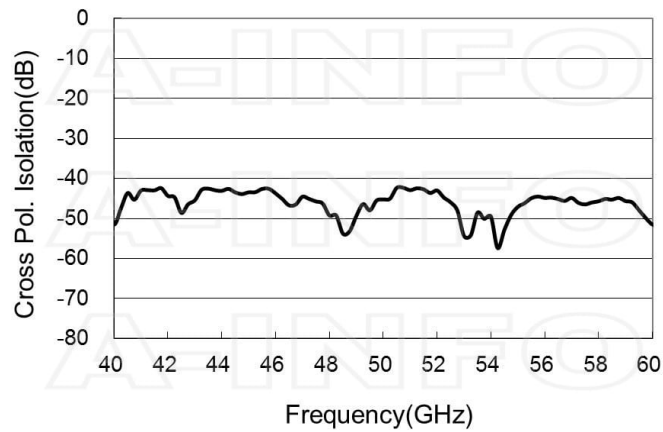
Antenna Factor



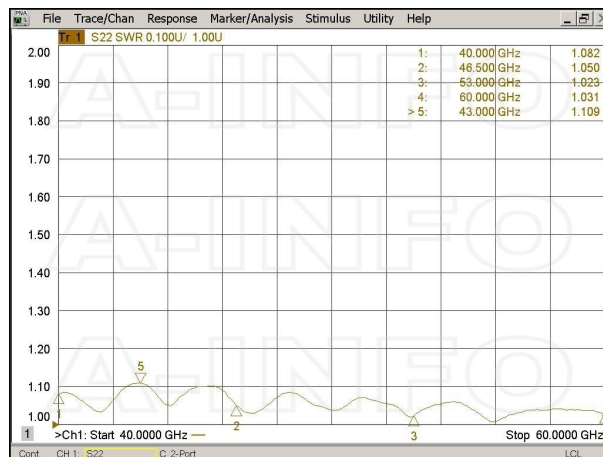
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)	Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
40.0	19.84	42.41	50.5	21.35	42.93
40.5	19.83	42.52	51.0	21.41	42.95
41.0	19.91	42.56	51.5	21.48	42.96
41.5	20.09	42.48	52.0	21.53	43.00
42.0	20.14	42.53	52.5	21.56	43.05
42.5	20.28	42.50	53.0	21.61	43.09
43.0	20.36	42.52	53.5	21.66	43.12
43.5	20.47	42.51	54.0	21.72	43.14
44.0	20.59	42.49	54.5	21.76	43.18
44.5	20.55	42.63	55.0	21.72	43.30
45.0	20.55	42.72	55.5	21.71	43.39
45.5	20.58	42.79	56.0	21.77	43.41
46.0	20.75	42.72	56.5	21.88	43.37
46.5	20.90	42.66	57.0	21.92	43.41
47.0	21.02	42.63	57.5	21.93	43.47
47.5	21.08	42.67	58.0	22.00	43.48
48.0	21.08	42.76	58.5	21.94	43.61
48.5	21.09	42.84	59.0	22.03	43.59
49.0	21.14	42.88	59.5	22.15	43.55
49.5	21.21	42.89	60.0	22.22	43.55
50.0	21.29	42.90			

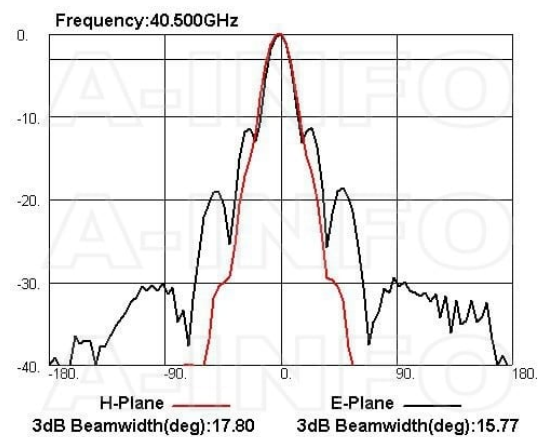
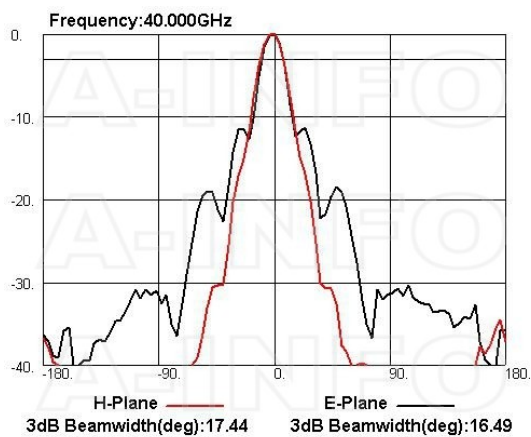
Cross Polarization Isolation

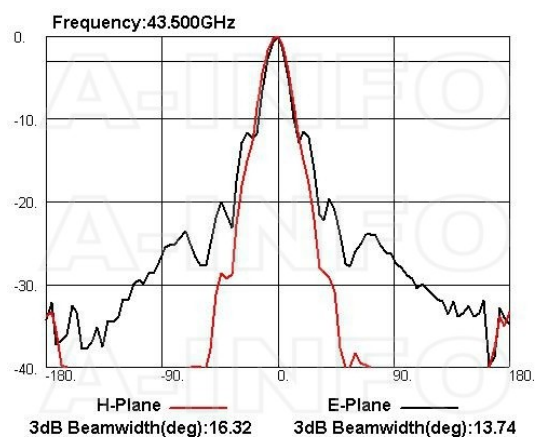
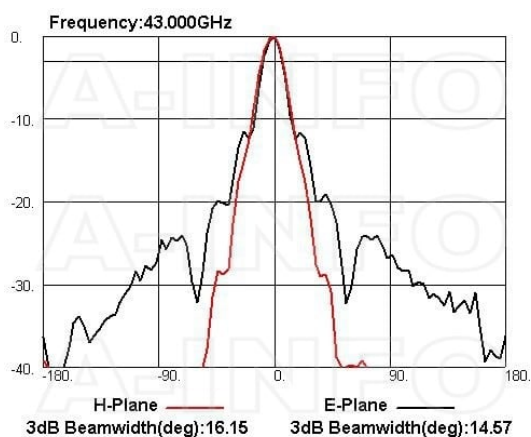
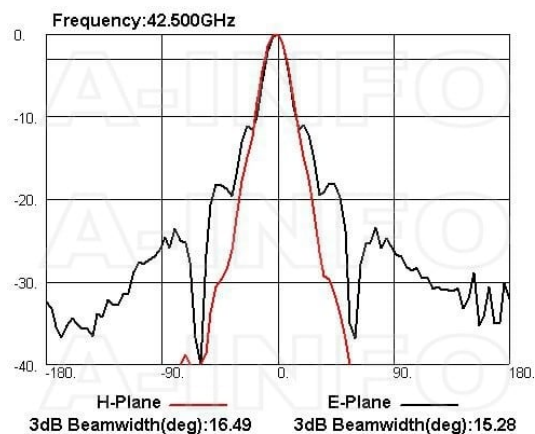
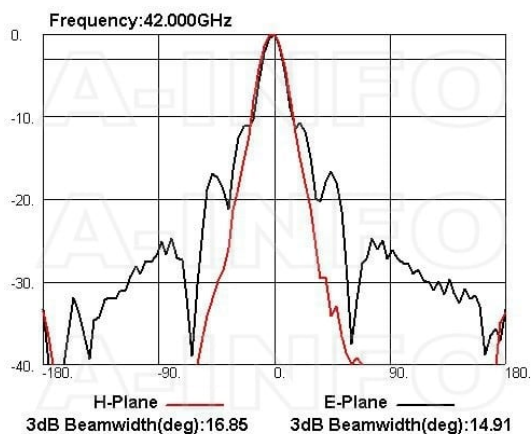
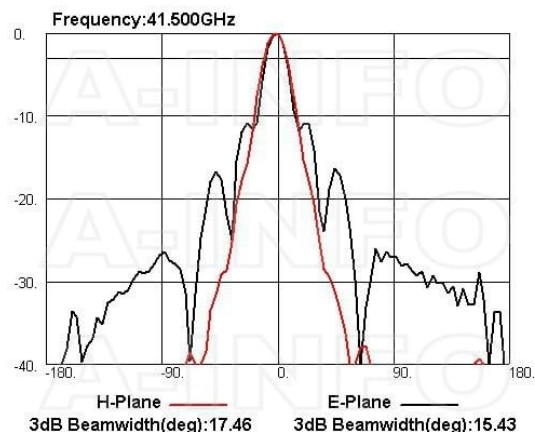
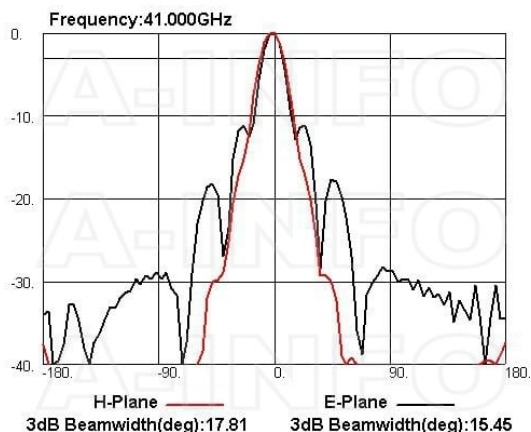


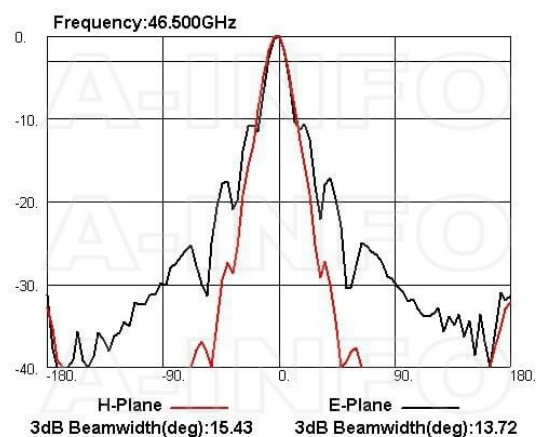
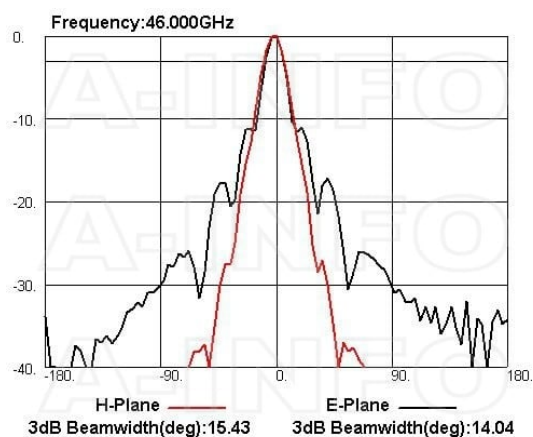
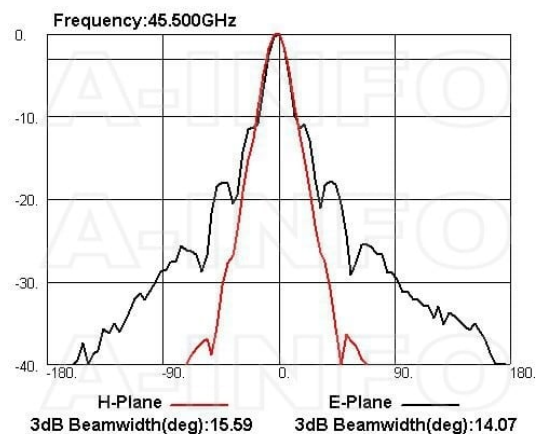
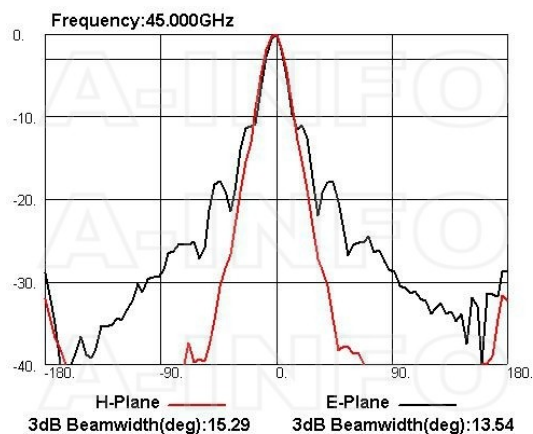
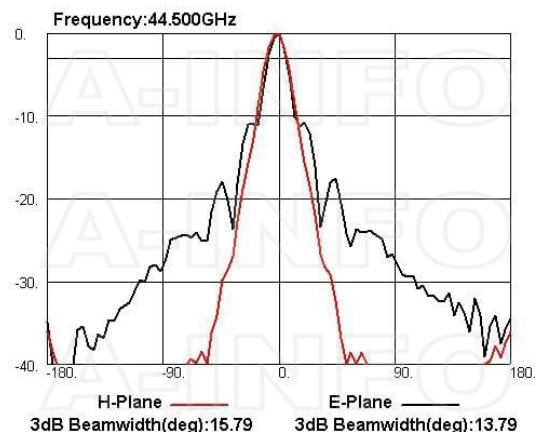
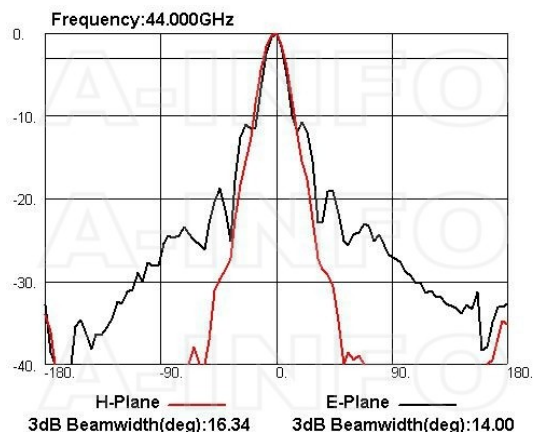
VSWR

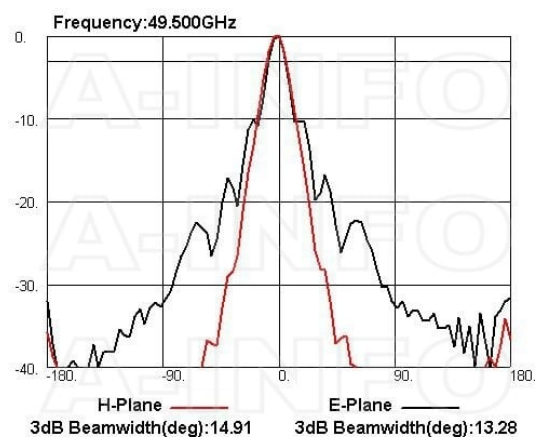
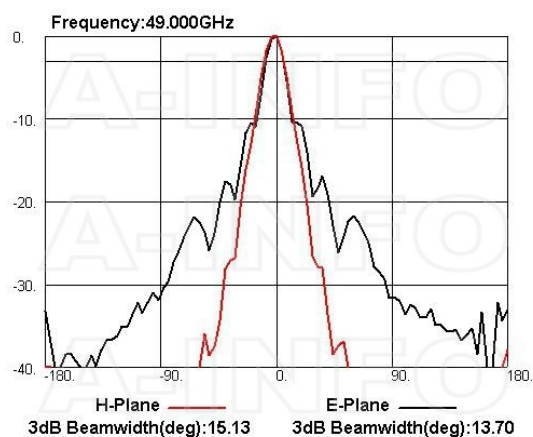
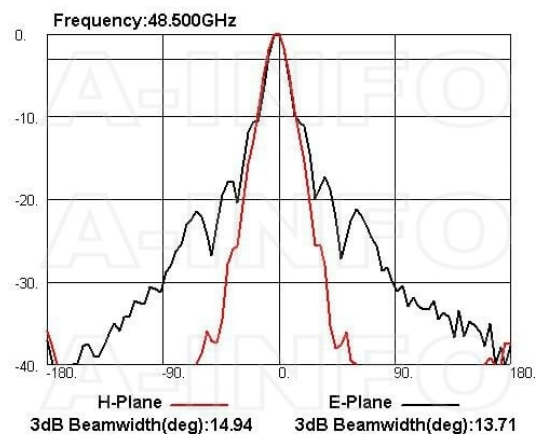
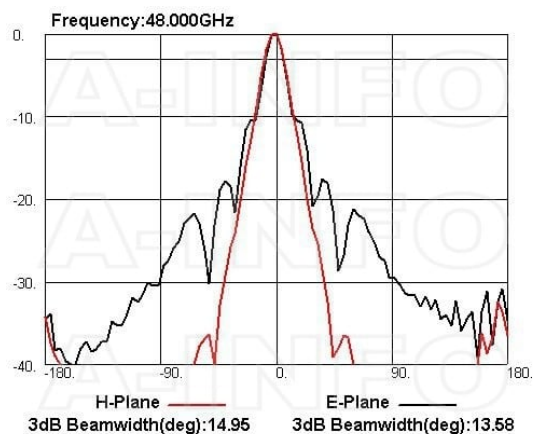
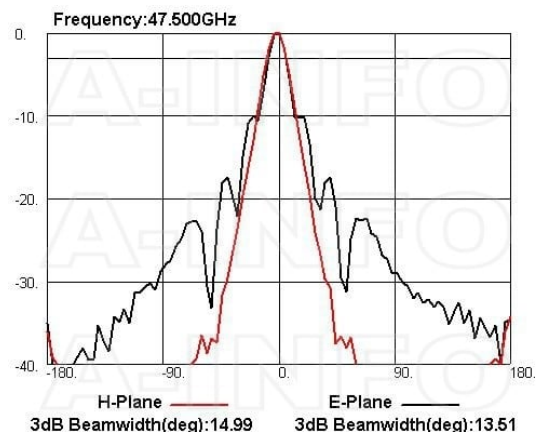
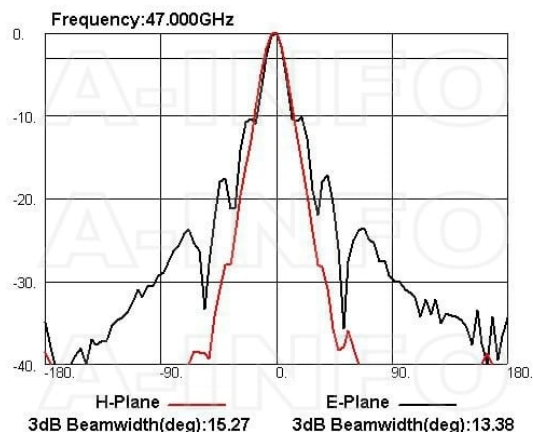


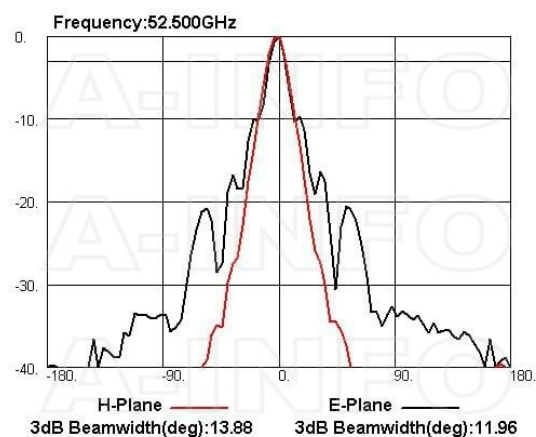
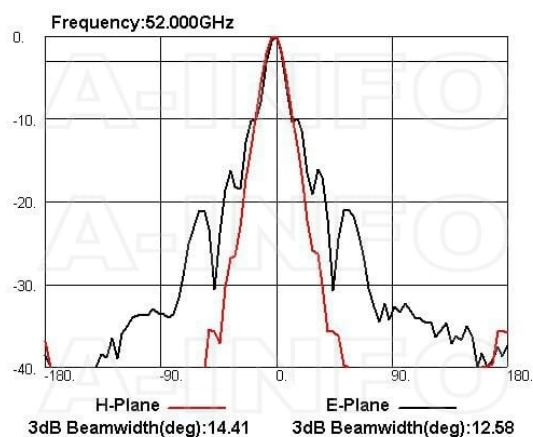
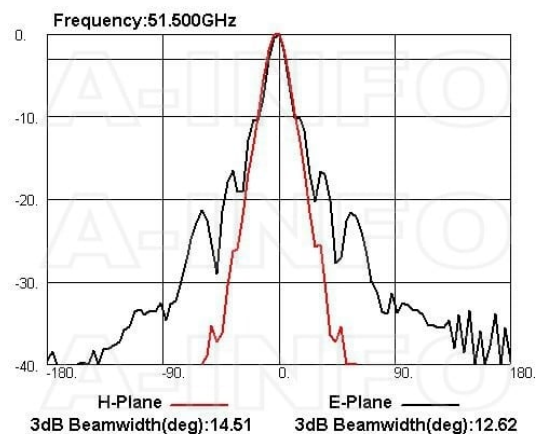
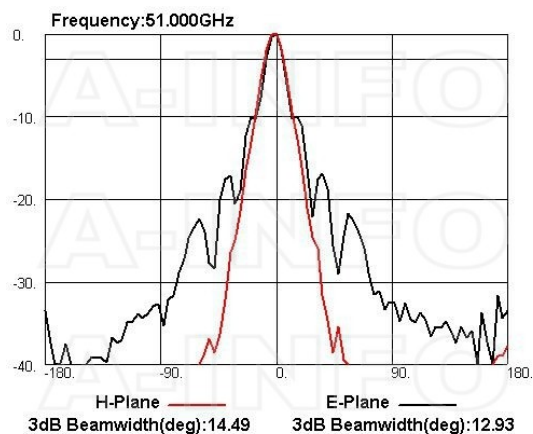
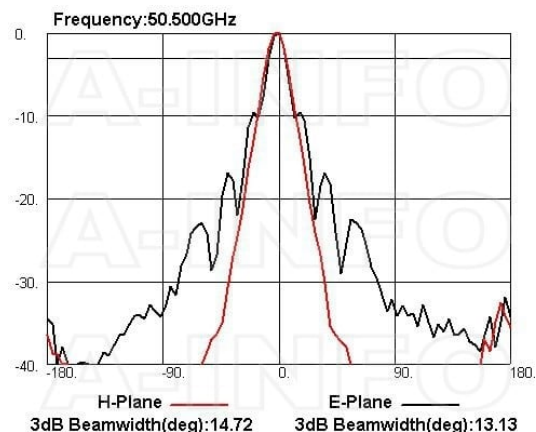
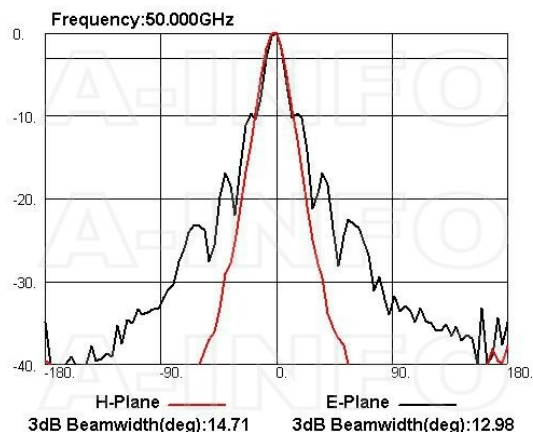
Pattern

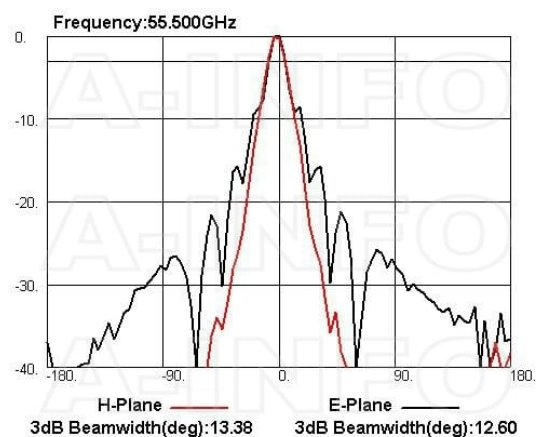
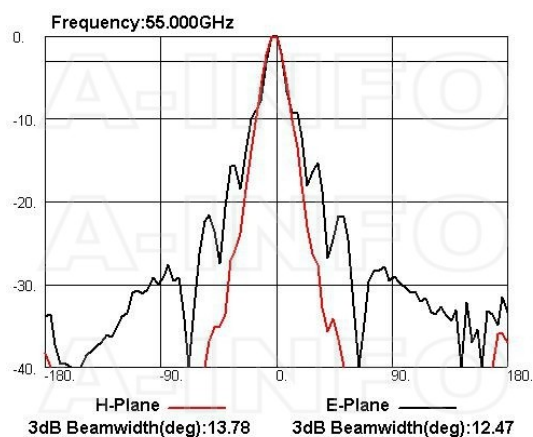
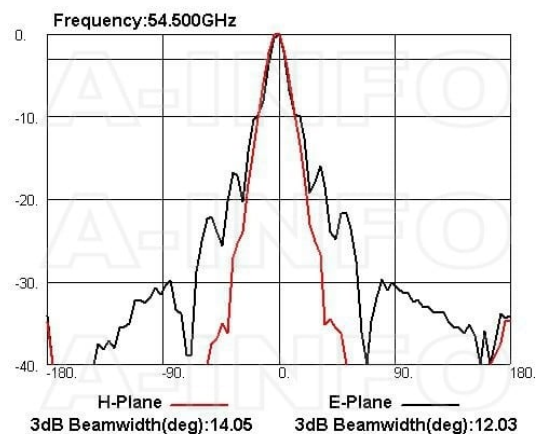
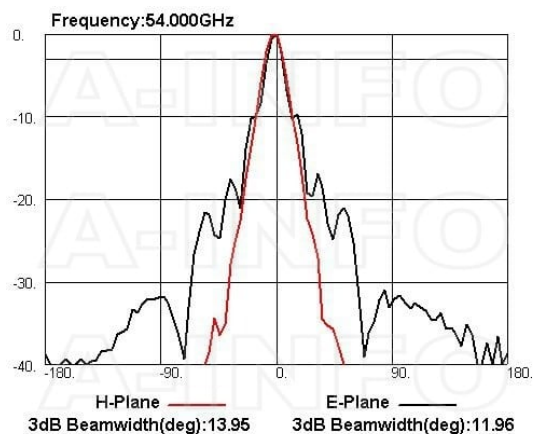
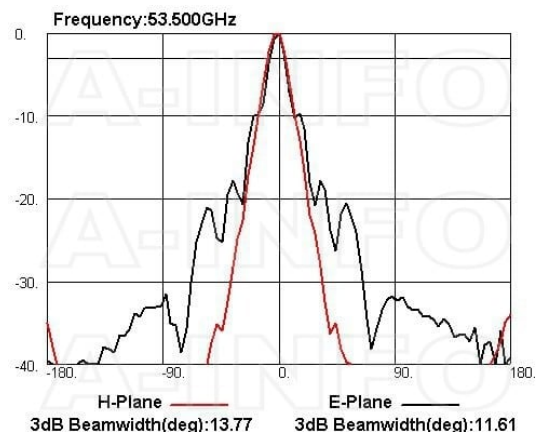
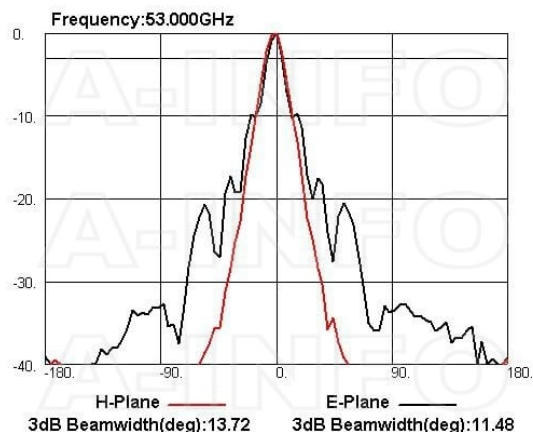


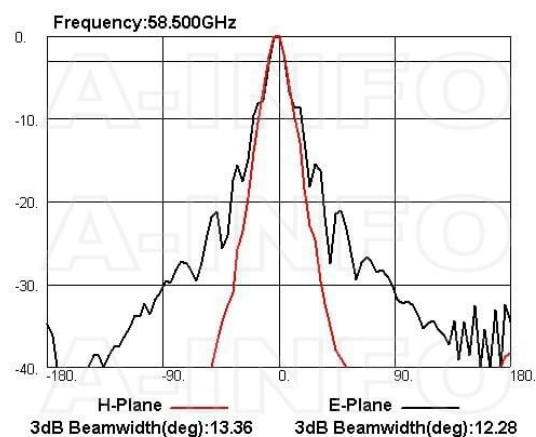
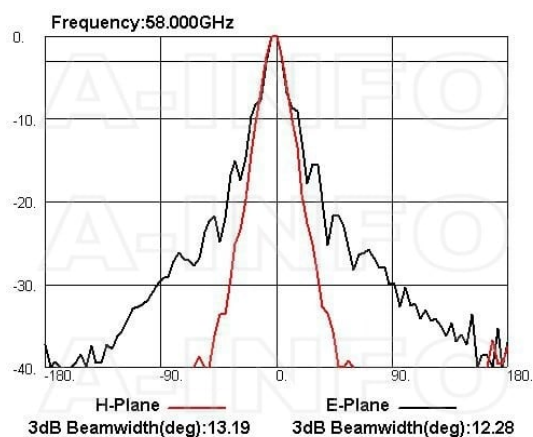
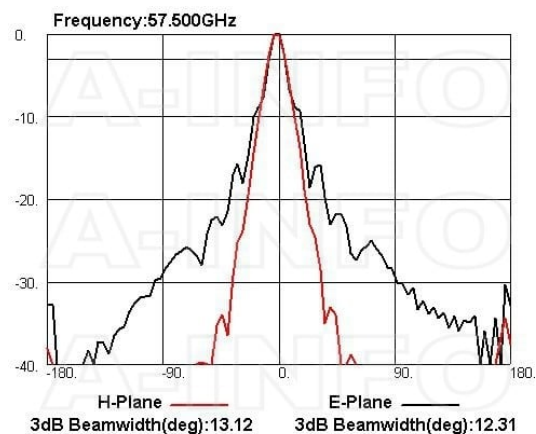
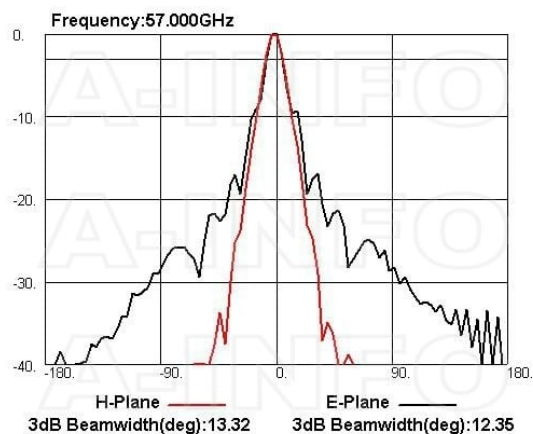
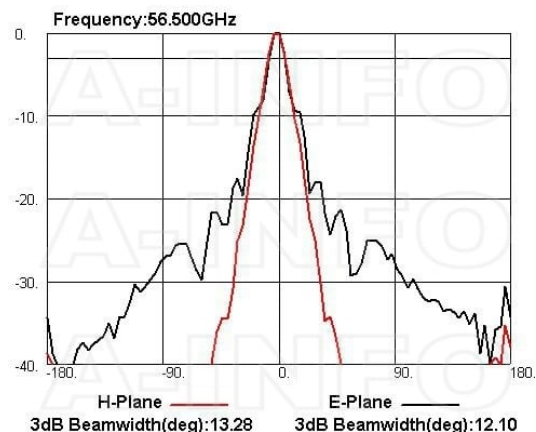
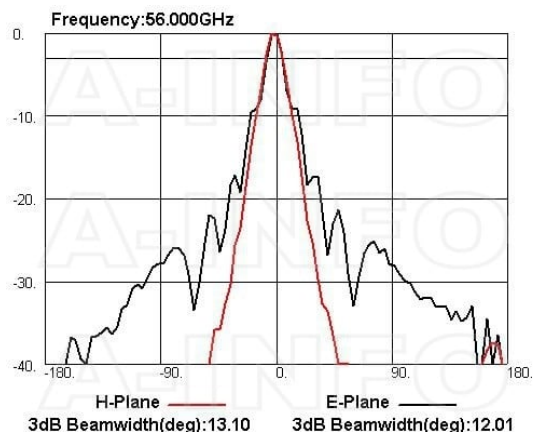


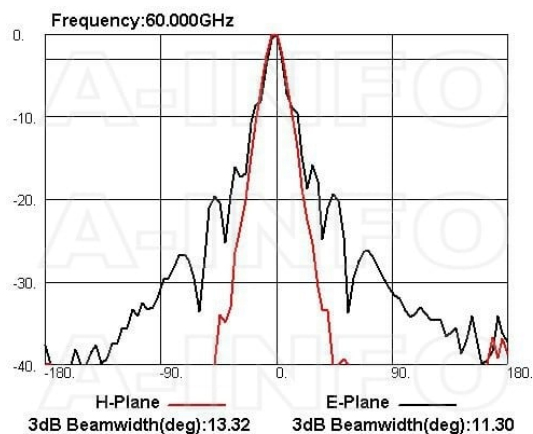
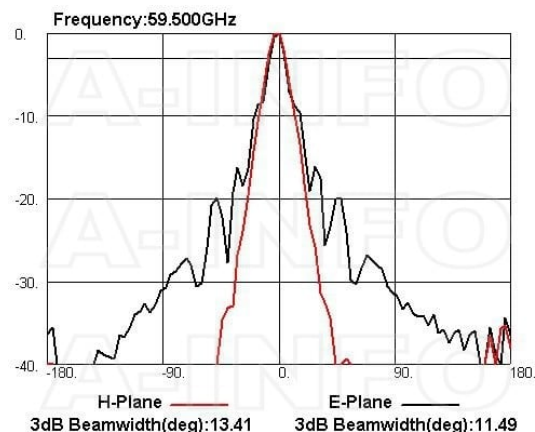
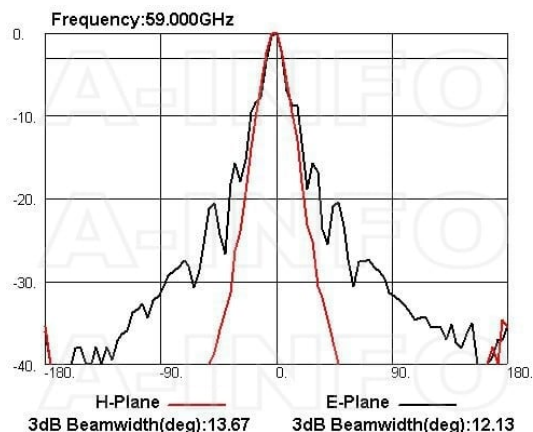












Related Products



19WCA1.85_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-60GHz WR19 to 1.85mm Female



19WCA1.85M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-60GHz WR19 to 1.85mm Male



19WCA2.4_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-50GHz WR19 to 2.4mm Female



19WCA2.4M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-50GHz WR19 to 2.4mm Male



19WCA1.0_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-60GHz WR19 to 1.0mm Female



19WCA1.0M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 40-60GHz WR19 to 1.0mm Male



19WECA1.85_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 40-60GHz WR19 to 1.85mm Female



19WECA2.4_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 40-50GHz WR19 to 2.4mm Female



HSCS_4-40UNC_Pack Assembly Pack

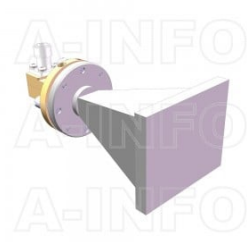
Similar Products



LB-19-20-A Standard Gain Horn Antenna 40-60GHz 20dB Gain Rectangular Waveguide Interface



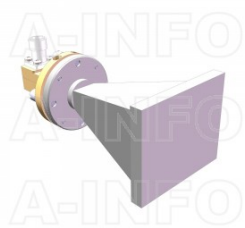
LB-19-20-C-2.4F Standard Gain Horn Antenna 40-50GHz 20dB Gain 2.4mm Female



LB-19-20-C-2.4FSPO Standard Gain Horn Antenna 40-50GHz 20dB Gain 2.4mm Female



LB-19-20-C-1.85F Standard Gain Horn Antenna 40-60GHz 20dB Gain 1.85mm Female



LB-19-20-C-1.85FSPO Standard Gain Horn Antenna 40-60GHz 20dB Gain 1.85mm Female

About this Datasheet

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