

**LB-15-25-A Standard Gain Horn Antenna 50-75GHz 25dB Gain
Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 50GHz to 75GHz With a Nominal 25dB Gain With Rectangular Waveguide Interface



Product Information

SKU	LB-15-25-A
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Description

Standard Gain Horn Antenna LB-15-25-A, operating from 50 to 75GHz with a nominal 25dB gain and low VSWR 1.1:1 with FUGP620 output. The model LB-15-25-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

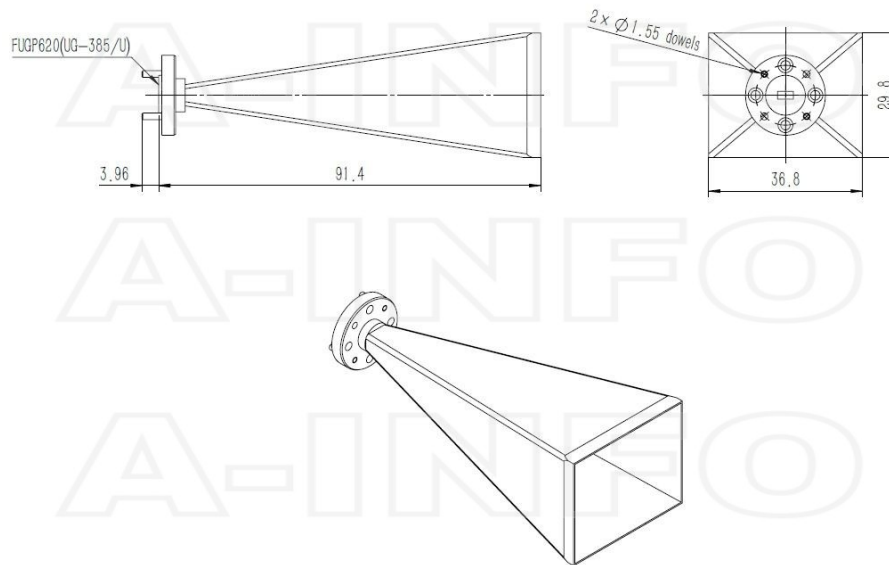
Electrical Specification		Interface	
Frequency, Min (GHz)	50	Output Type	Waveguide
Frequency, Max (GHz)	75	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR15	Flange Designation	FUGP620(UG-385/U)
Gain, Typ (dBi)	25	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	9	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	11	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	40	Finish	Gold Plated
VSWR, Typ	1.1:1	Size, W (mm)	36.8
		Size, H (mm)	29.8
		Size, L (mm)	91.4
		Weight, (kg)	0.07

Additional Information

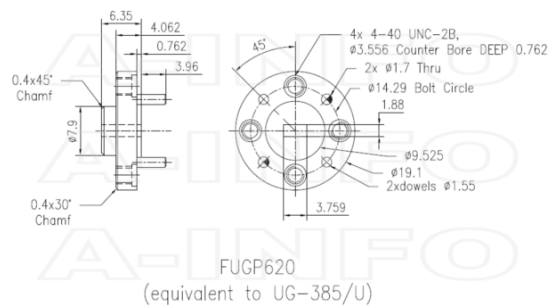
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FUGP620 Output (P/N: LB-15-25-A)

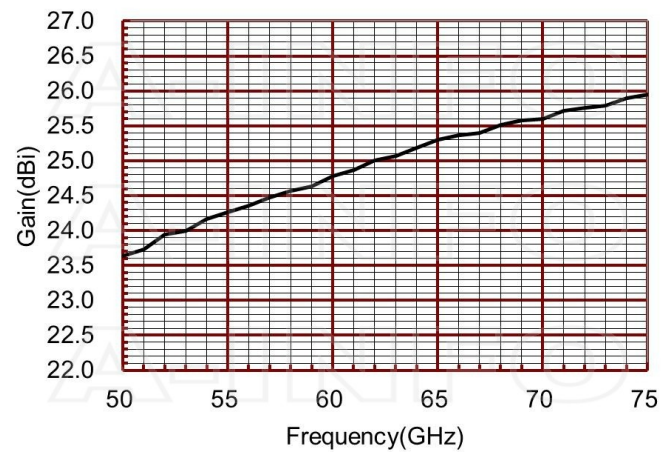


Flange Drawing

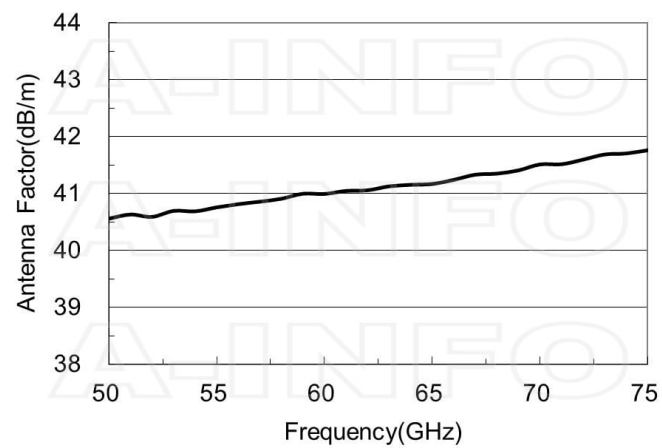


Typical Test Results

Gain



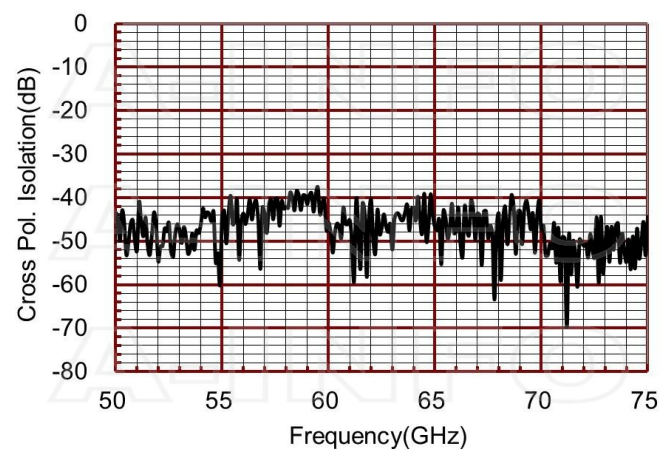
Antenna Factor



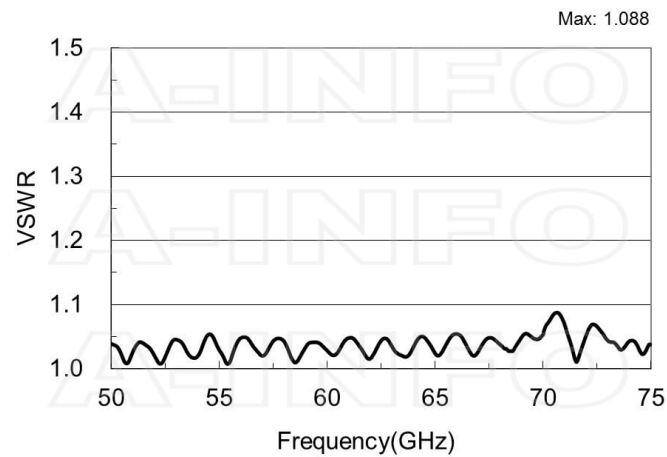
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)	Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
50	23.63	40.56	63	25.07	41.13
51	23.73	40.63	64	25.18	41.15
52	23.94	40.59	65	25.30	41.17
53	24.00	40.70	66	25.36	41.24
54	24.17	40.69	67	25.40	41.33
55	24.26	40.76	68	25.51	41.35
56	24.36	40.81	69	25.58	41.41
57	24.47	40.86	70	25.60	41.51
58	24.57	40.91	71	25.72	41.52
59	24.63	41.00	72	25.76	41.60
60	24.78	40.99	73	25.79	41.69
61	24.87	41.05	74	25.89	41.70
62	25.00	41.06	75	25.95	41.76

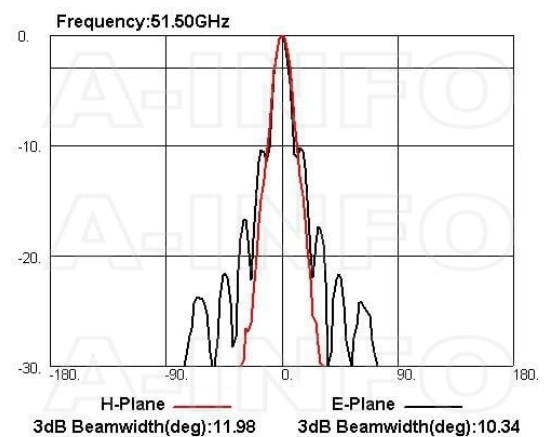
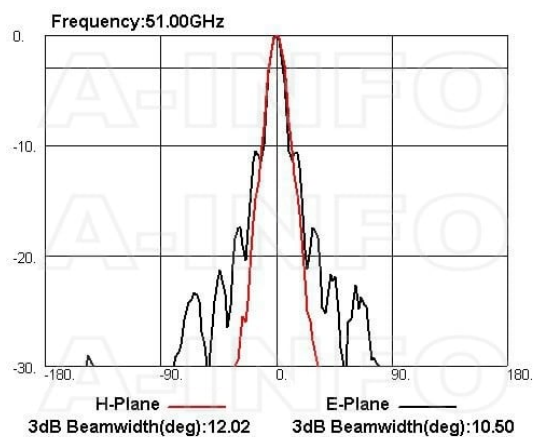
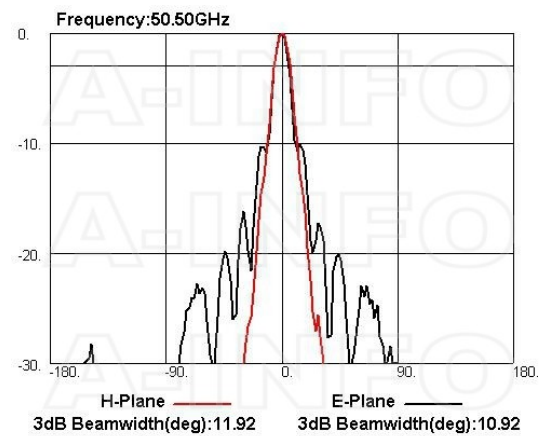
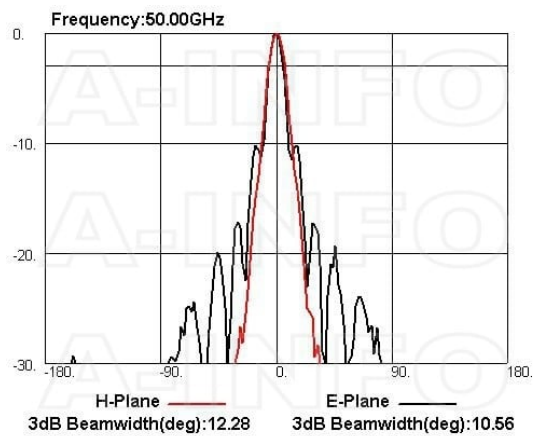
Cross Polarization Isolation

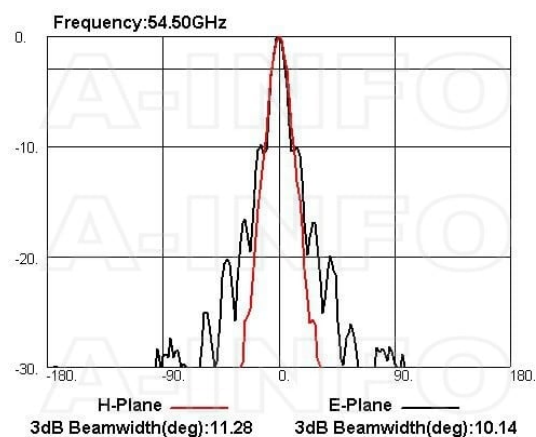
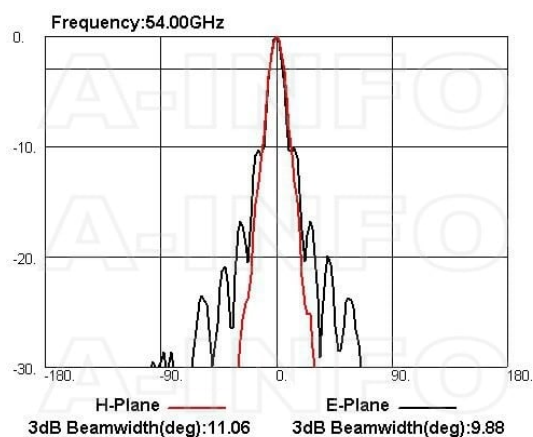
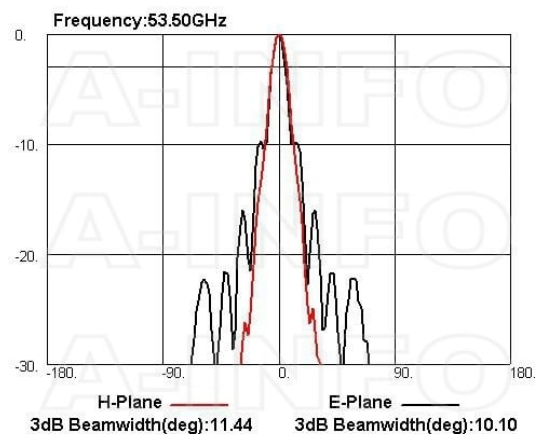
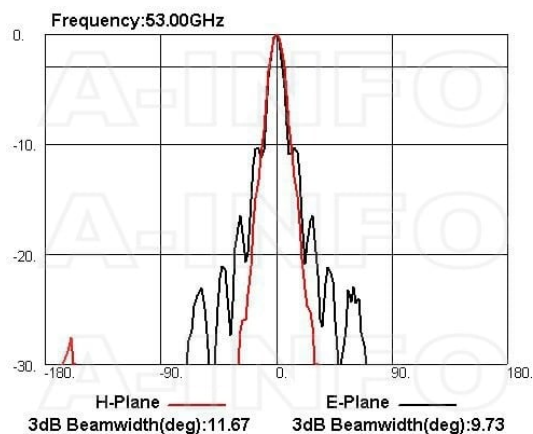
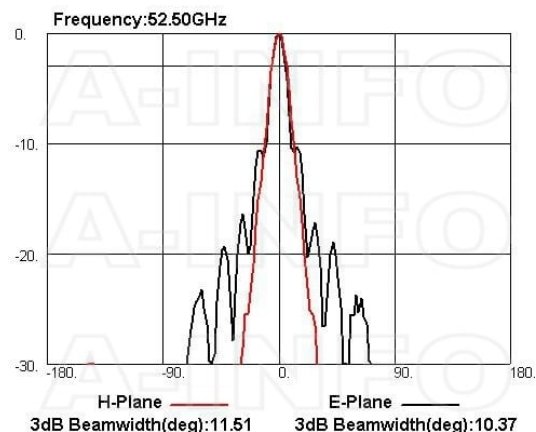
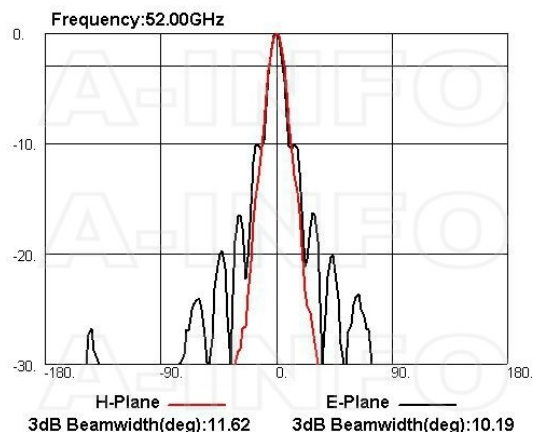


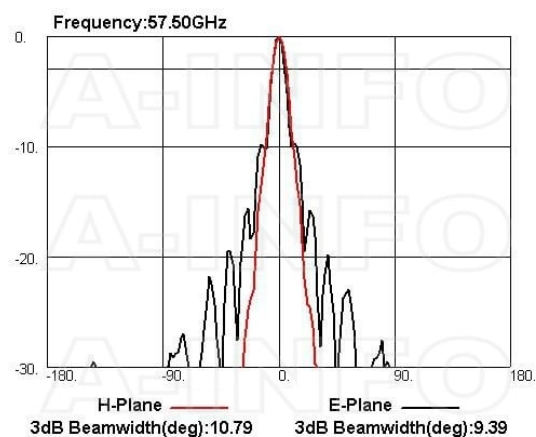
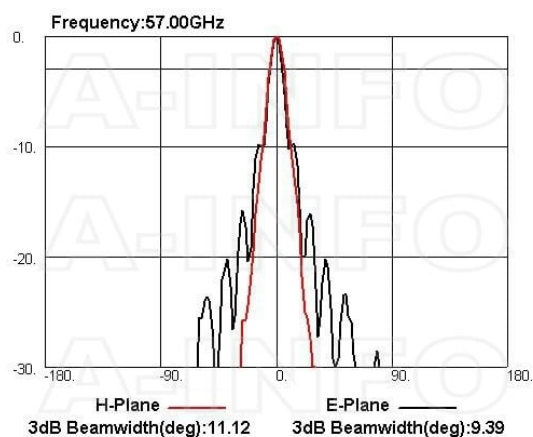
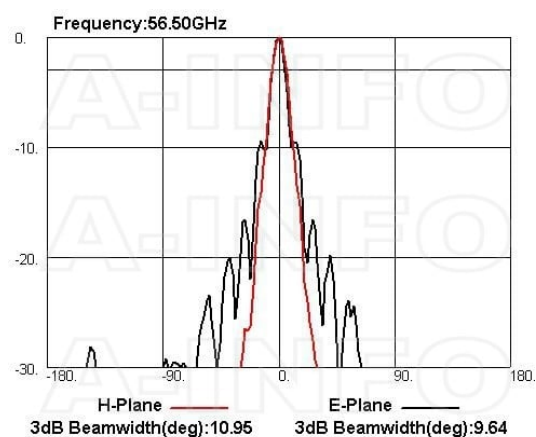
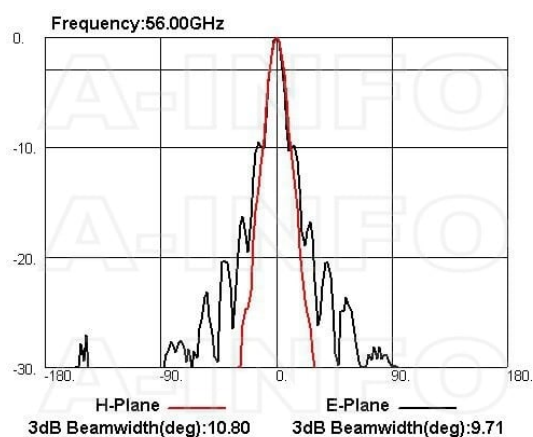
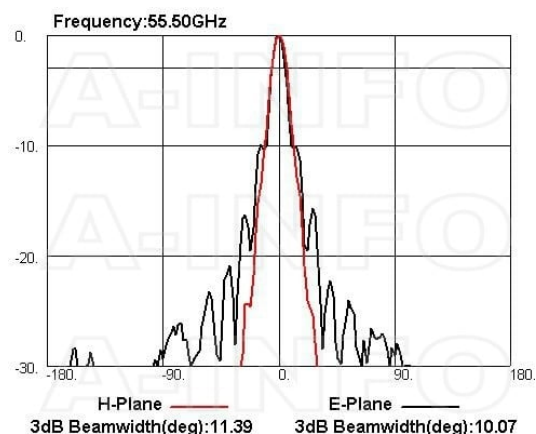
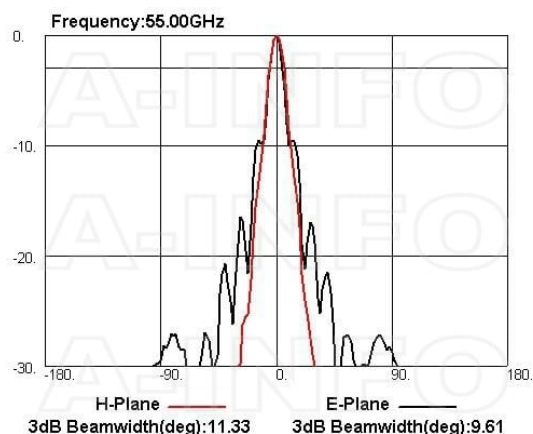
VSWR

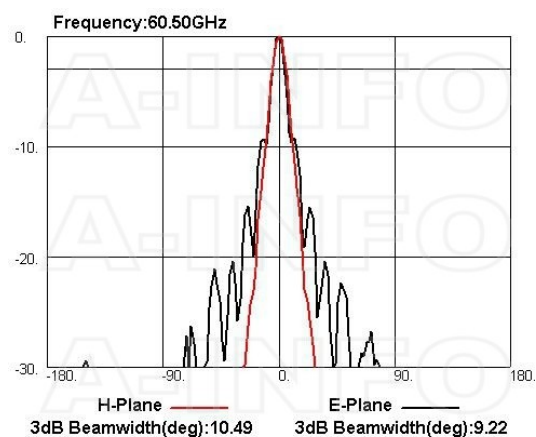
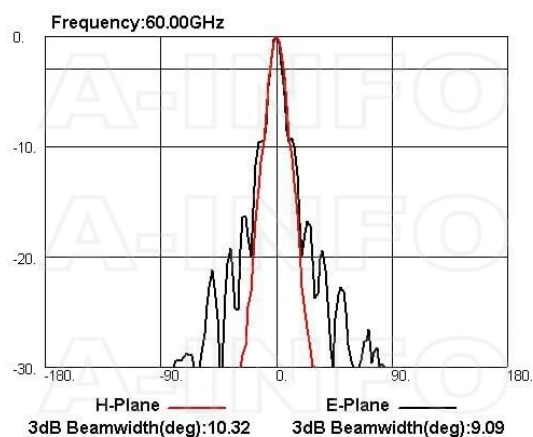
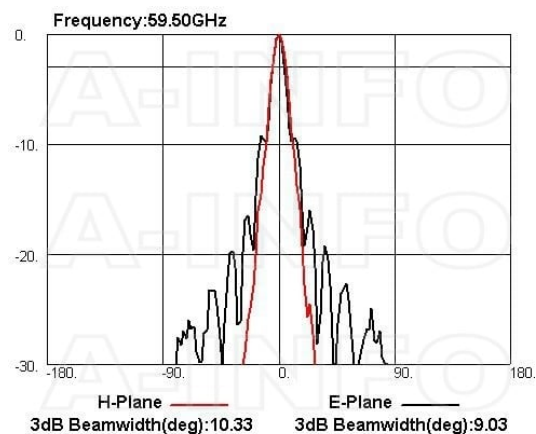
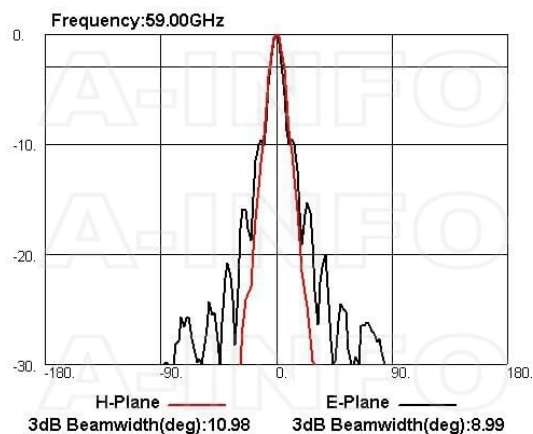
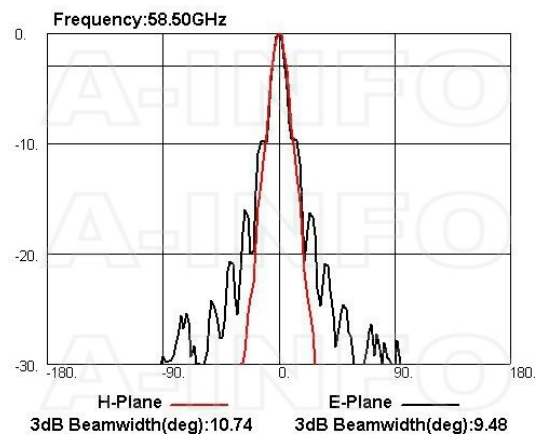
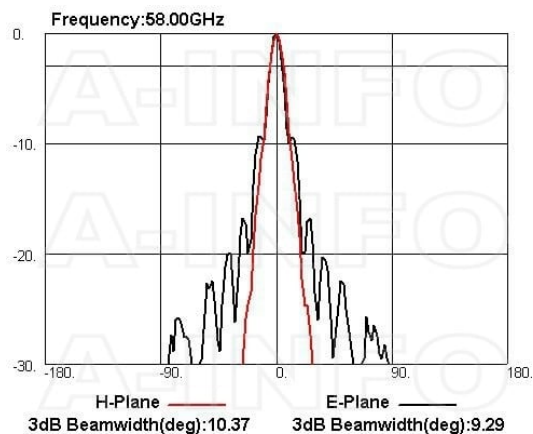


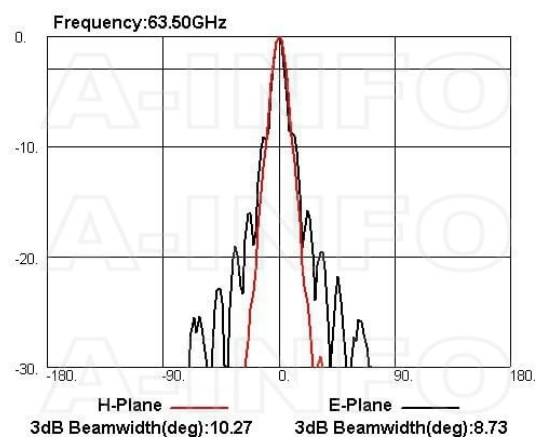
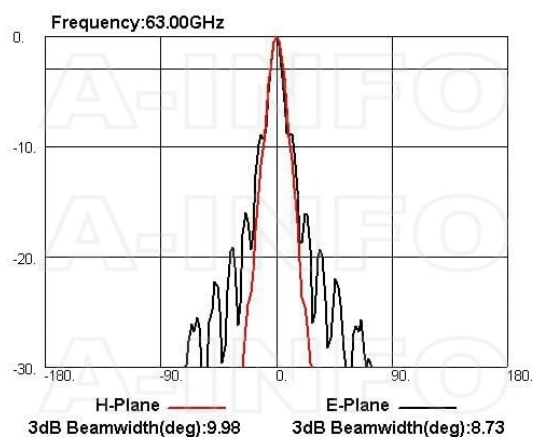
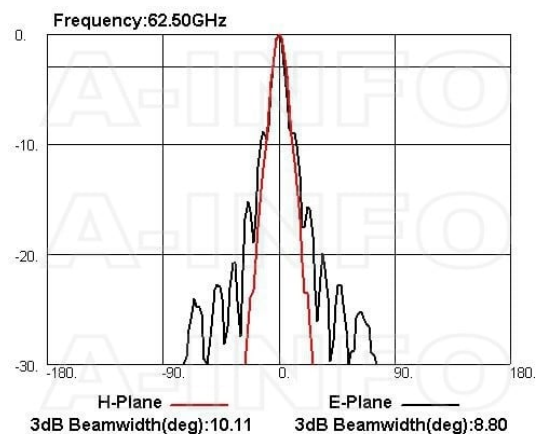
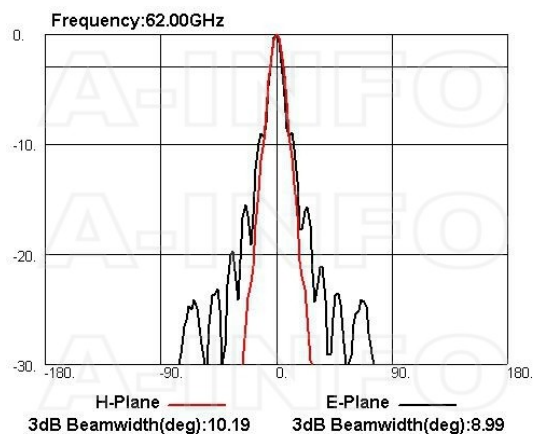
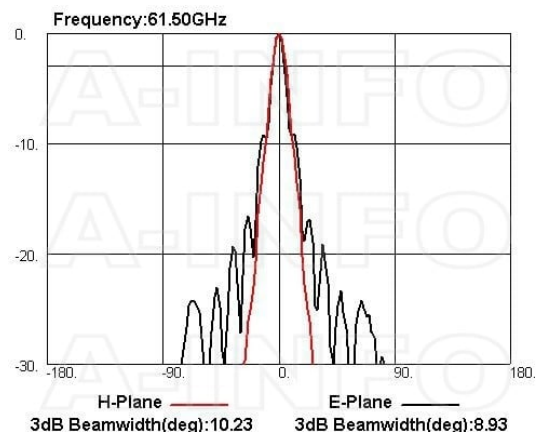
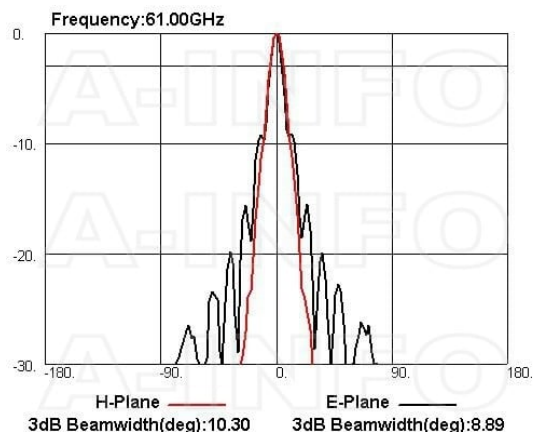
Pattern

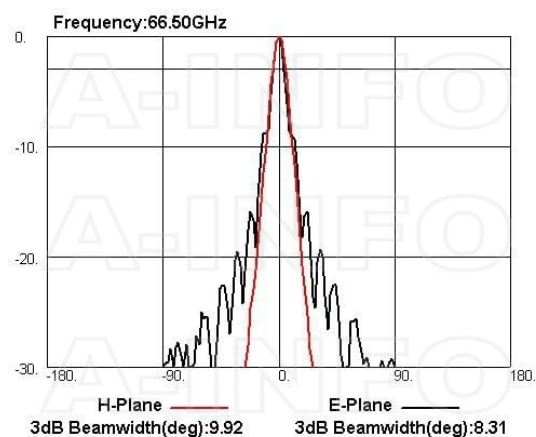
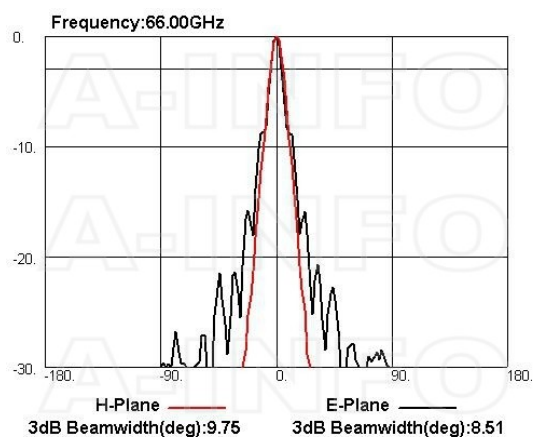
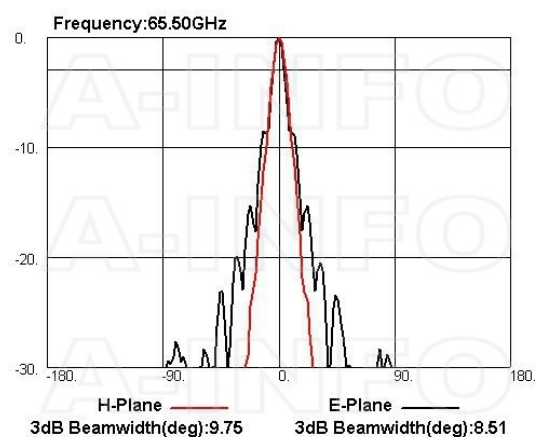
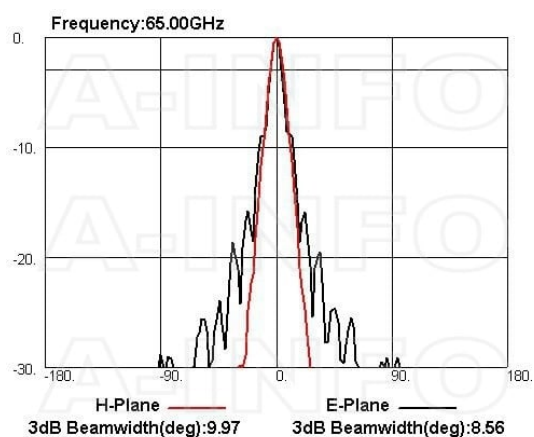
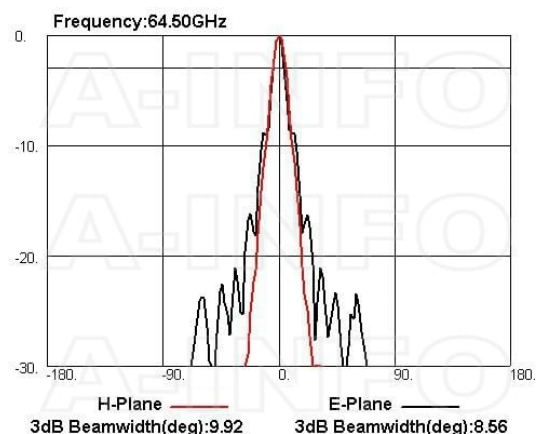
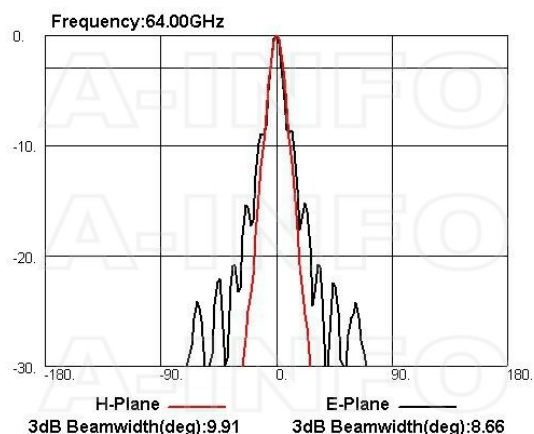


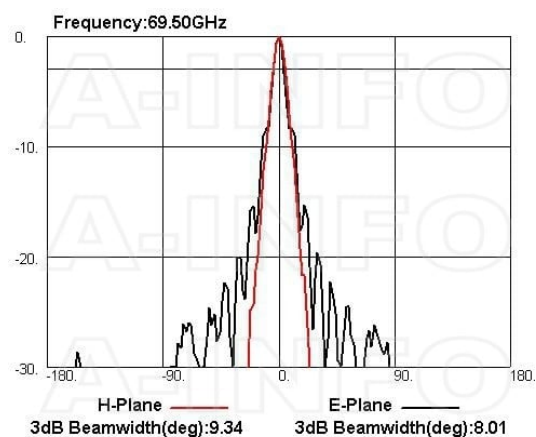
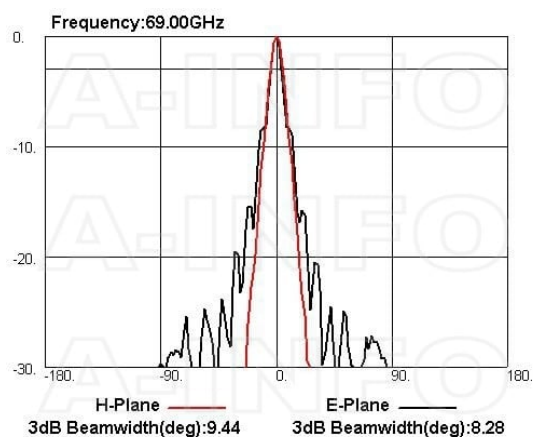
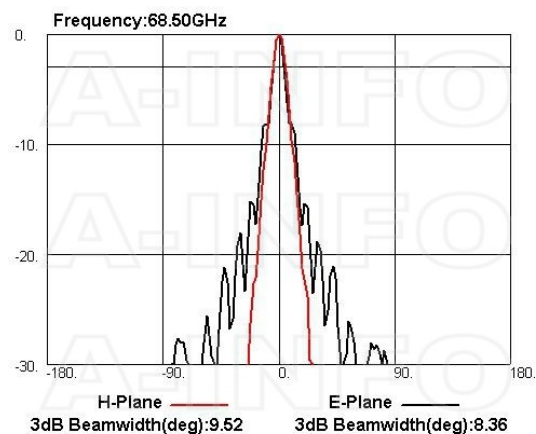
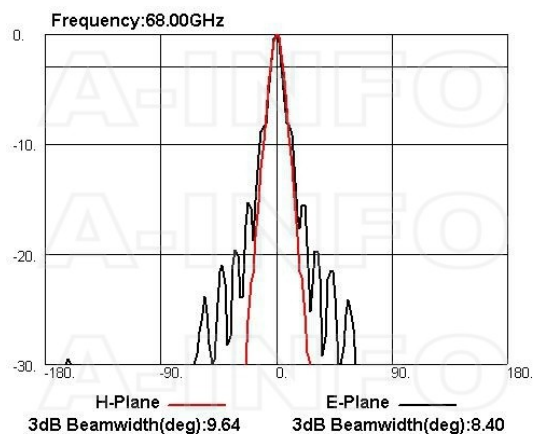
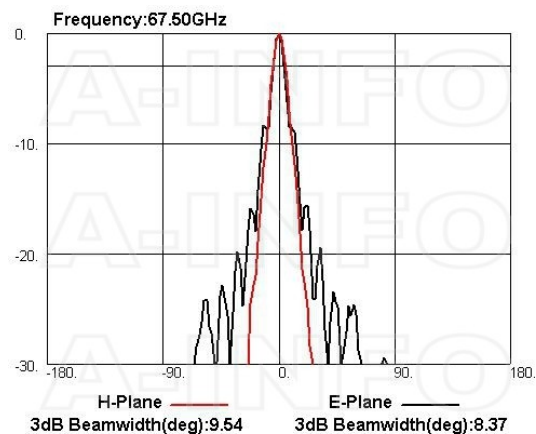
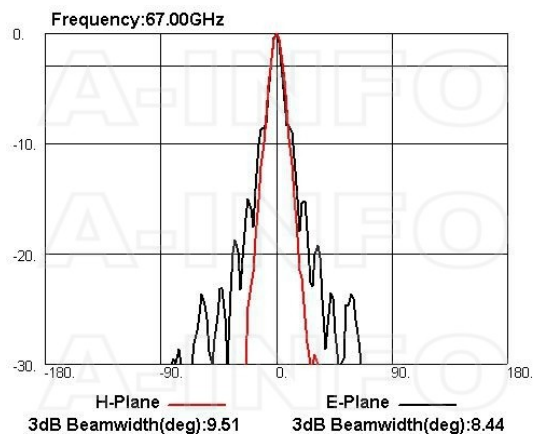


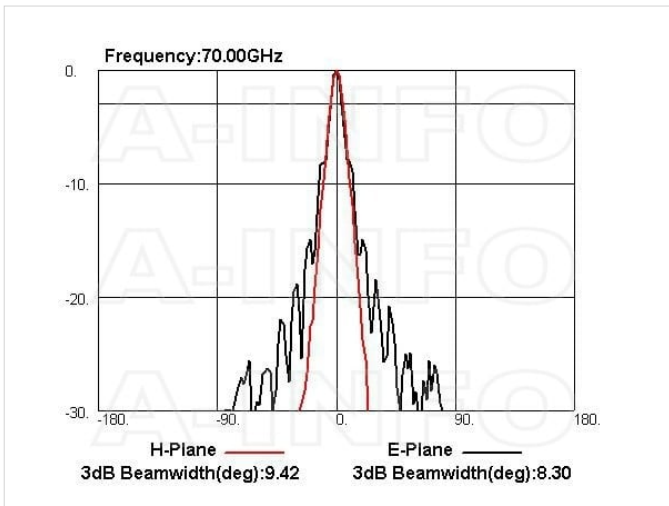












Related Products



15WCA1.85_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 50-65GHz WR15 to 1.85mm Female



15WCA1.85M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 50-65GHz WR15 to 1.85mm Male



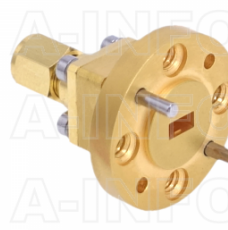
15WCA1.0_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 50-75GHz WR15 to 1.0mm Female



15WCA1.0M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 50-75GHz WR15 to 1.0mm Male



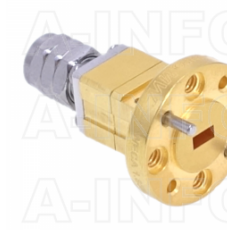
15WECA1.85_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 50-65GHz WR15 to 1.85mm Female



15WECA1.0M_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 50-75GHz WR15 to 1.0mm Male



15WECA1.0_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 50-75GHz WR15 to 1.0mm Female

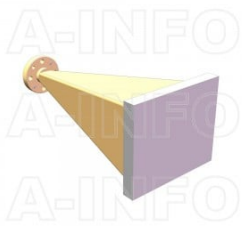


15WECA1.85M_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 50-65GHz WR15 to 1.85mm Male



HSCS_4-40UNC_Pack Assembly Pack

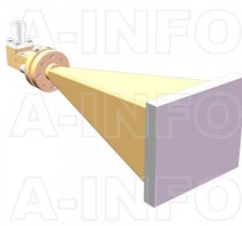
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Horn Antenna 50-75GHz 25dB
Gain Rectangular Waveguide
Interface



LB-15-25-C-1.85F Standard Gain
Horn Antenna 50-65GHz 25dB
Gain 1.85mm Female



LB-15-25-C-1.85FSPO Standard
Gain Horn Antenna 50-65GHz
25dB Gain 1.85mm Female



LB-15-25-C-1.0F Standard Gain
Horn Antenna 50-75GHz 25dB
Gain 1.0mm Female



LB-15-25-C-1.0FSPO Standard
Gain Horn Antenna 50-75GHz
25dB Gain 1.0mm Female

About this Datasheet

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