



LB-10-20-A Standard Gain Horn Antenna 75-110GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 75GHz to 110GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-10-20-A
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Description

Standard Gain Horn Antenna LB-10-20-A, operating from 75 to 110GHz with a nominal 20dB gain and low VSWR 1.1:1 with FUGP900 output. The model LB-10-20-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

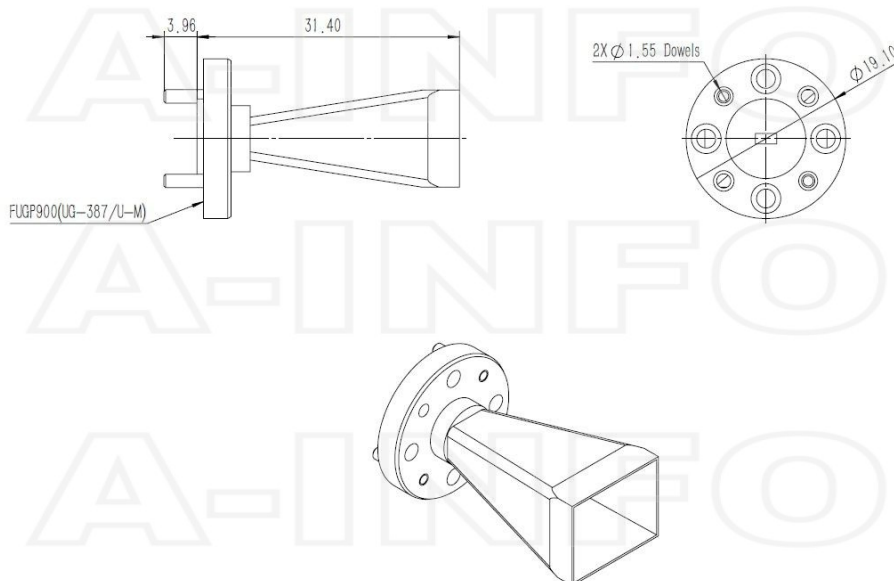
Electrical Specification		Interface	
Frequency, Min (GHz)	75	Output Type	Waveguide
Frequency, Max (GHz)	110	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR10	Flange Designation	FUGP900(UG-387/U-M)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	40	Finish	Gold Plated
VSWR, Typ	1.1:1	Size, W (mm)	19.1
		Size, H (mm)	19.1
		Size, L (mm)	31.4
		Weight, (kg)	0.02

Additional Information

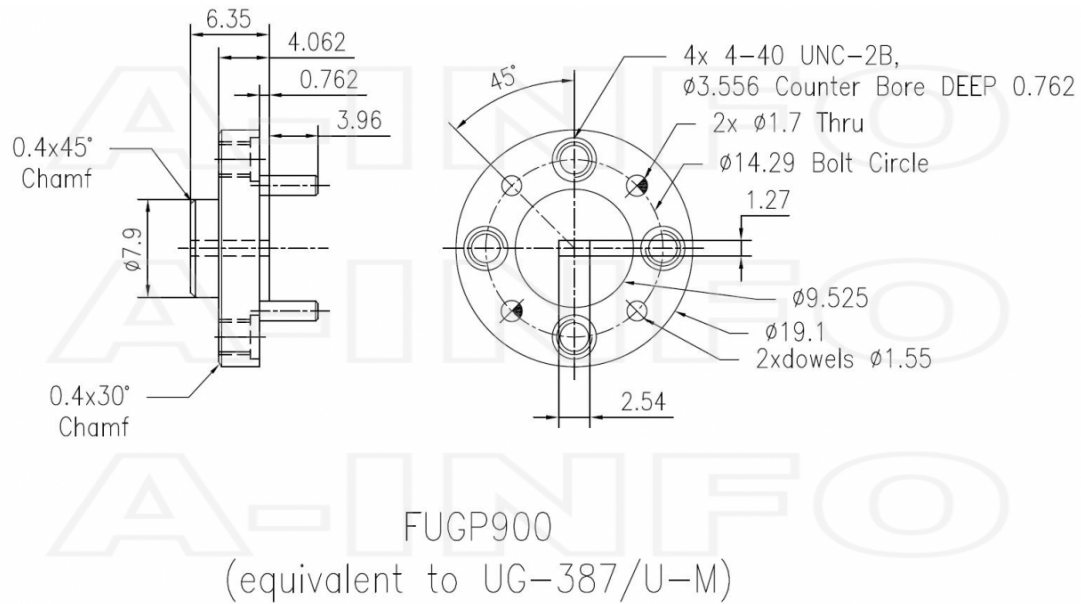
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FUGP900 Output (P/N: LB-10-20-A)

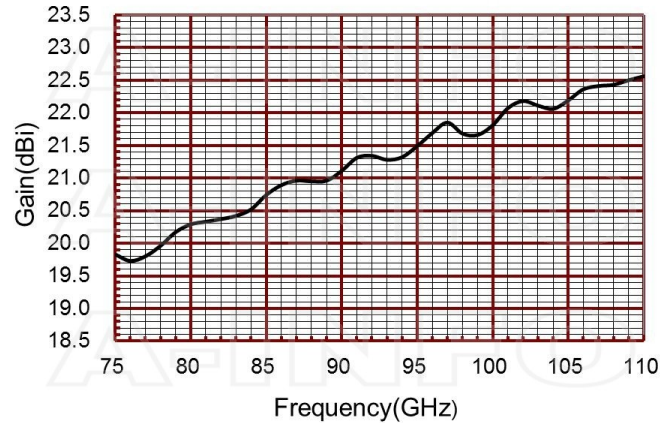


Flange Drawing

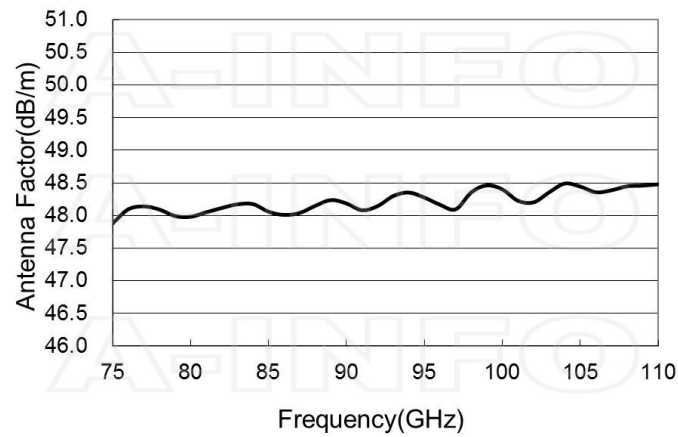


Typical Test Results

Gain



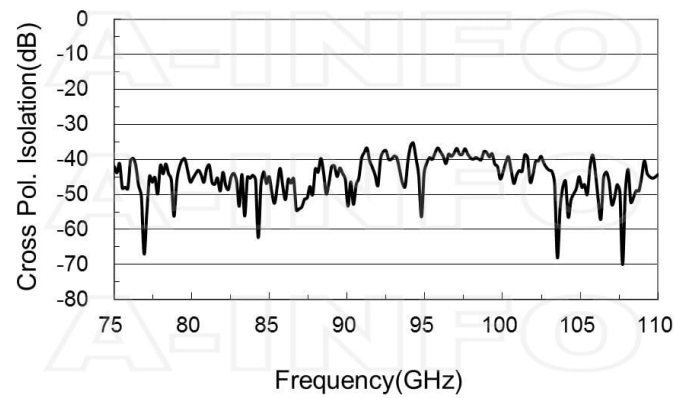
Antenna Factor



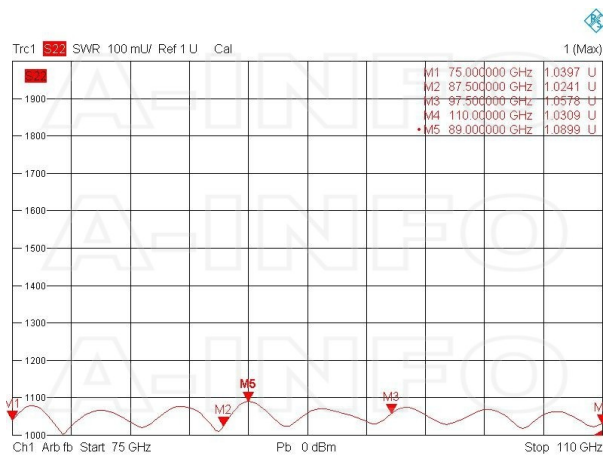
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)		Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
75	19.83	47.88		93	21.28	48.30
76	19.73	48.10		94	21.32	48.35
77	19.80	48.14		95	21.49	48.27
78	19.96	48.09		96	21.69	48.17
79	20.17	47.99		97	21.85	48.10
80	20.29	47.98		98	21.68	48.35
81	20.33	48.05		99	21.66	48.46
82	20.37	48.12		100	21.81	48.40
83	20.42	48.17		101	22.07	48.23
84	20.52	48.18		102	22.18	48.20
85	20.74	48.06		103	22.11	48.36
86	20.89	48.01		104	22.06	48.49
87	20.96	48.04		105	22.19	48.44
88	20.95	48.15		106	22.36	48.36
89	20.96	48.24		107	22.41	48.39
90	21.11	48.18		108	22.43	48.45
91	21.31	48.08		109	22.50	48.46
92	21.34	48.15		110	22.56	48.48

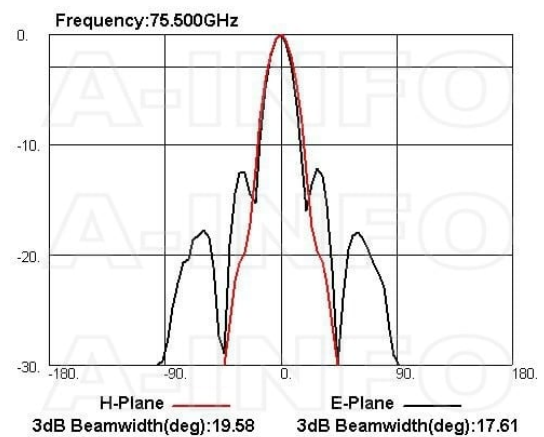
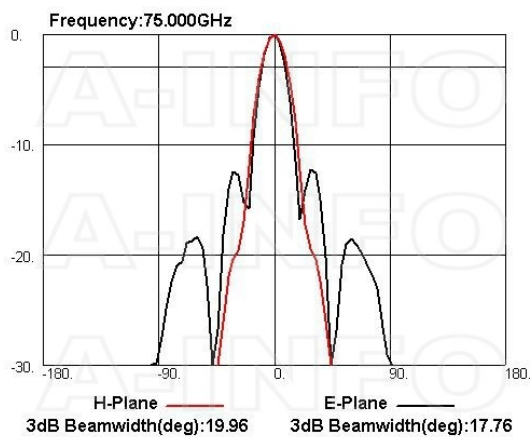
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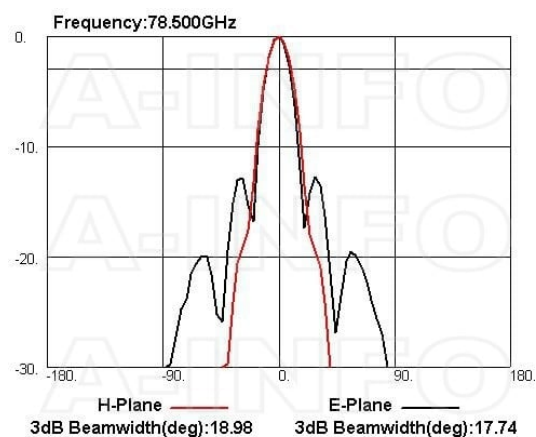
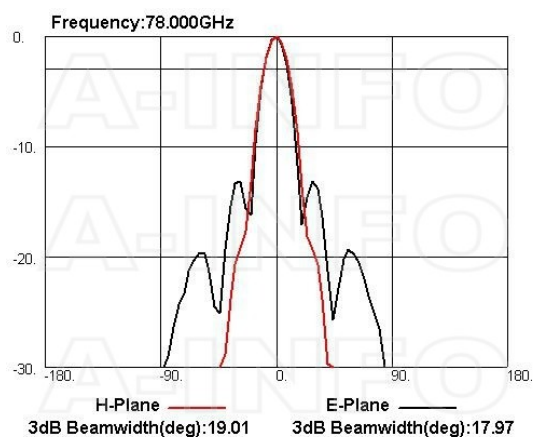
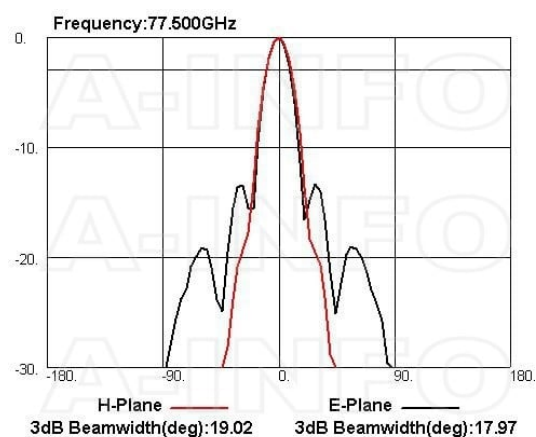
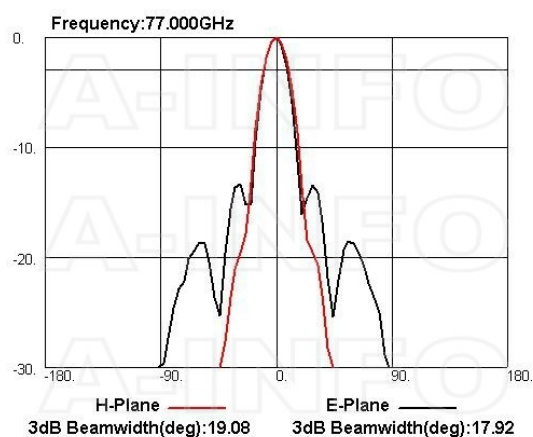
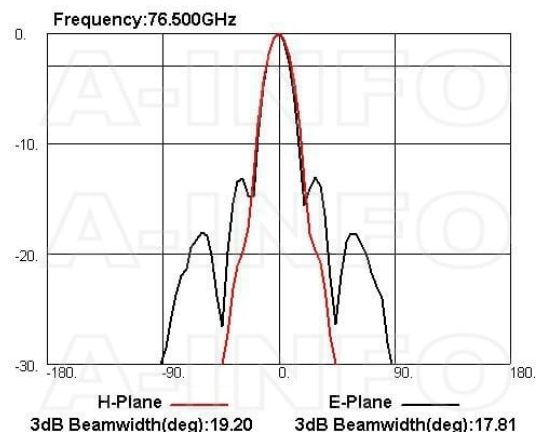
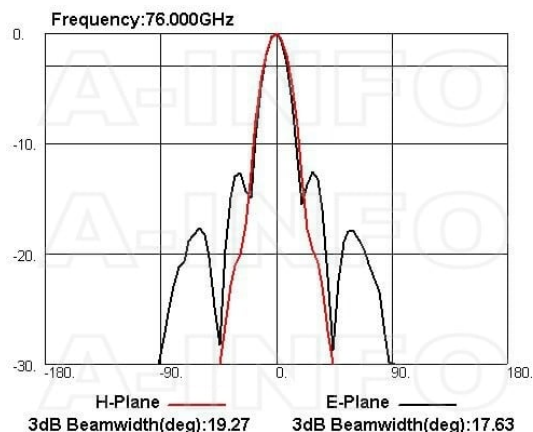


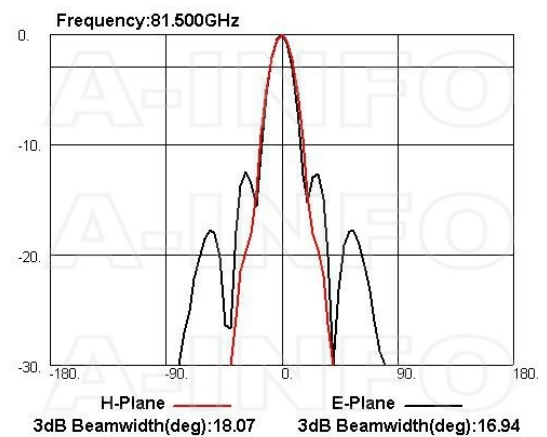
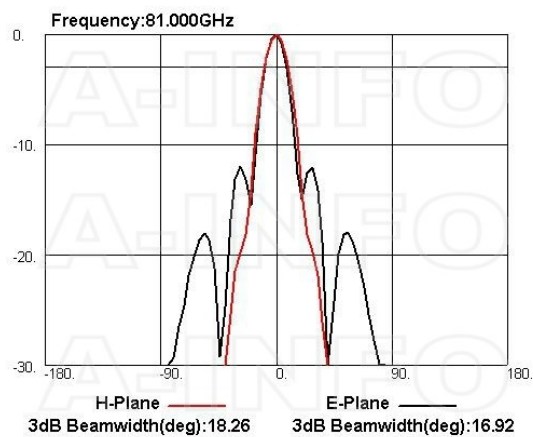
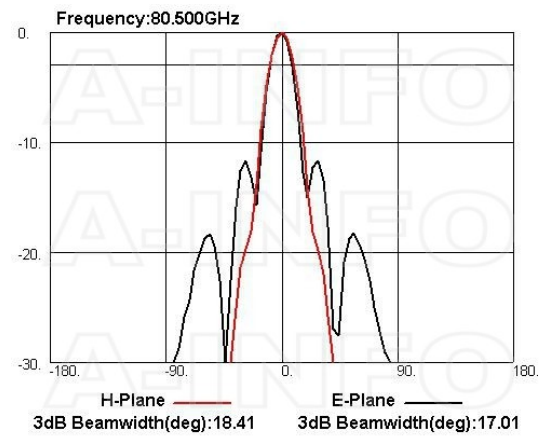
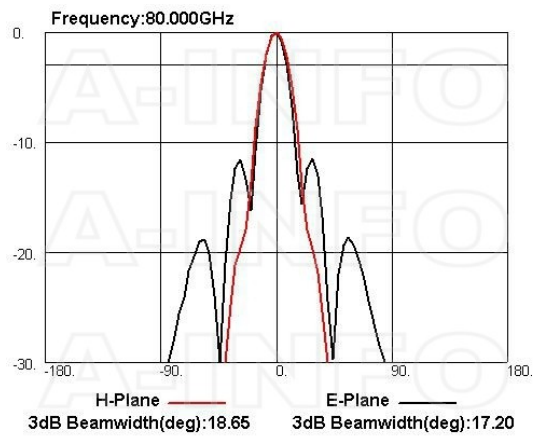
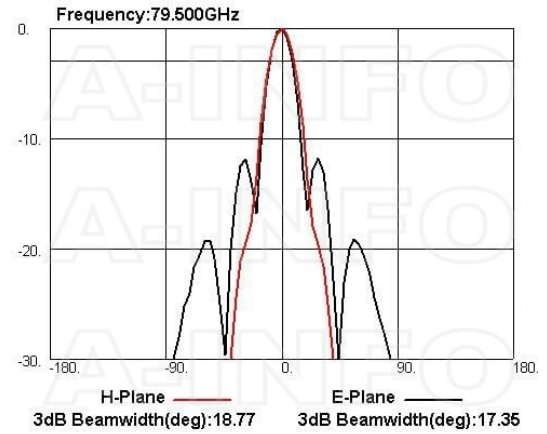
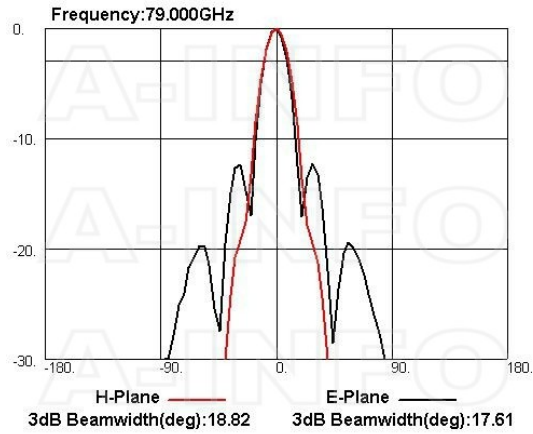
VSWR

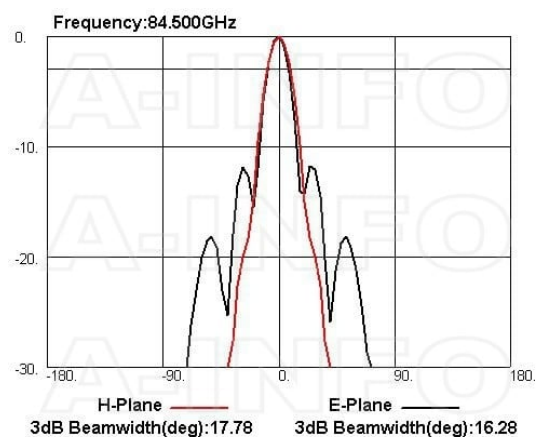
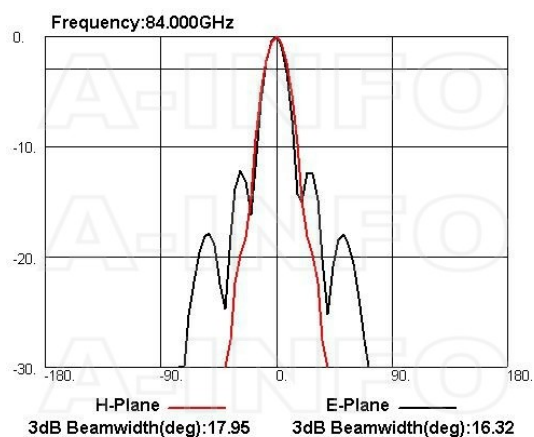
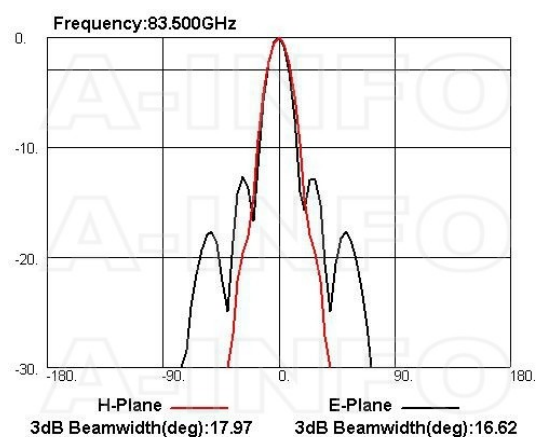
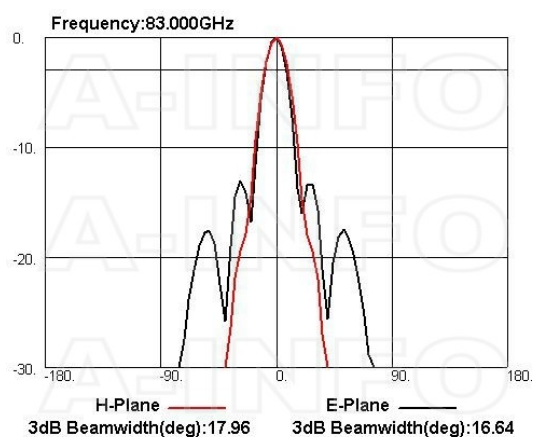
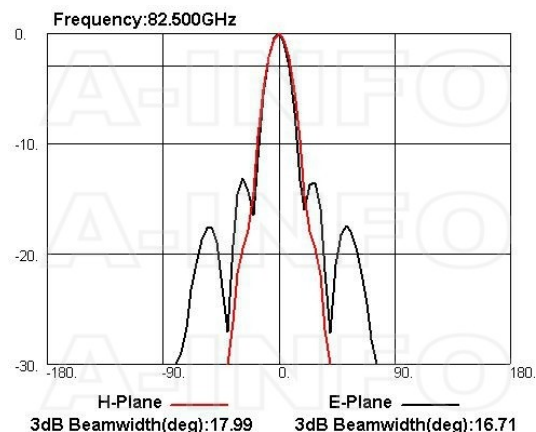
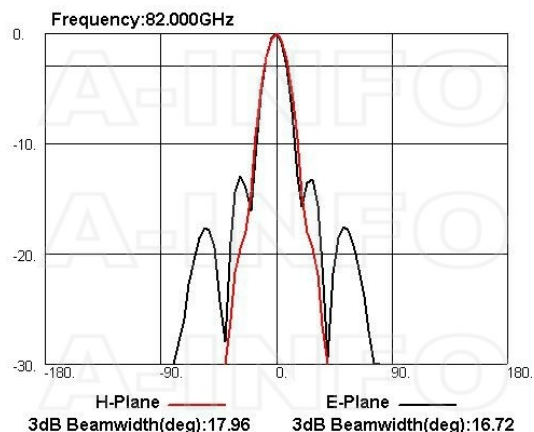


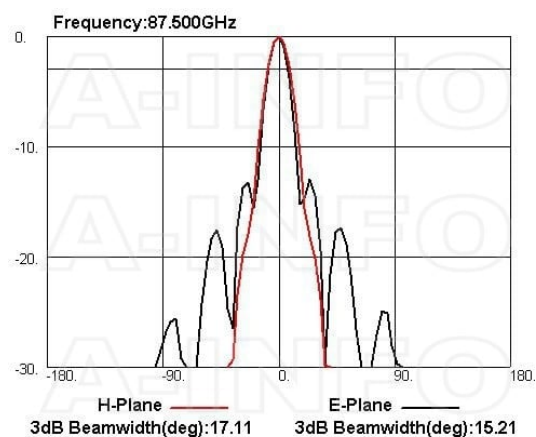
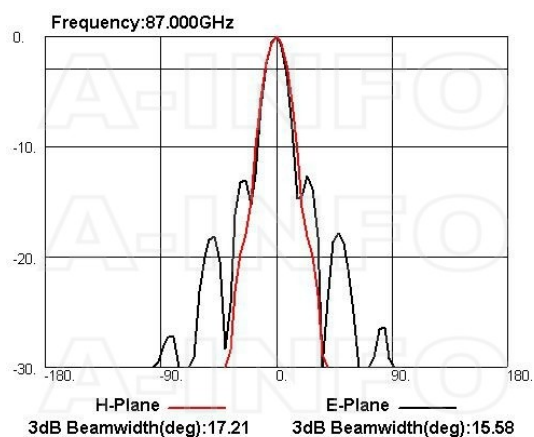
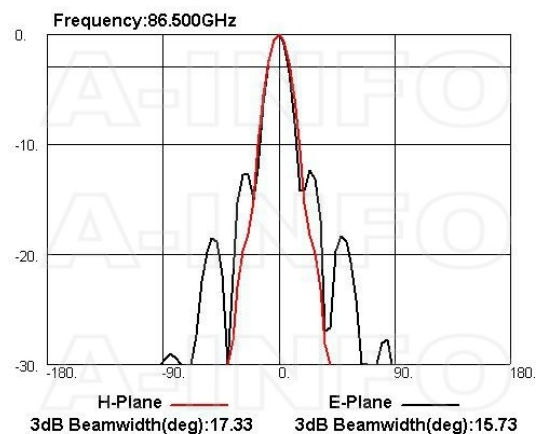
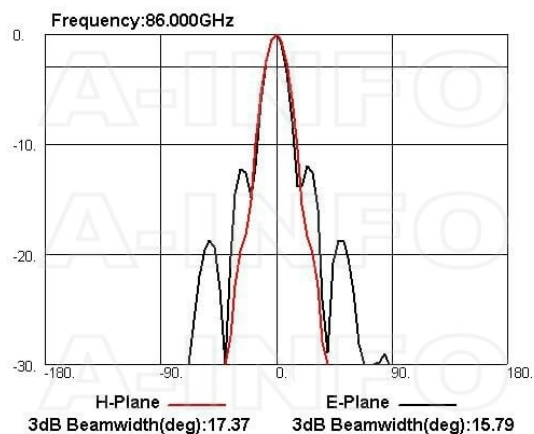
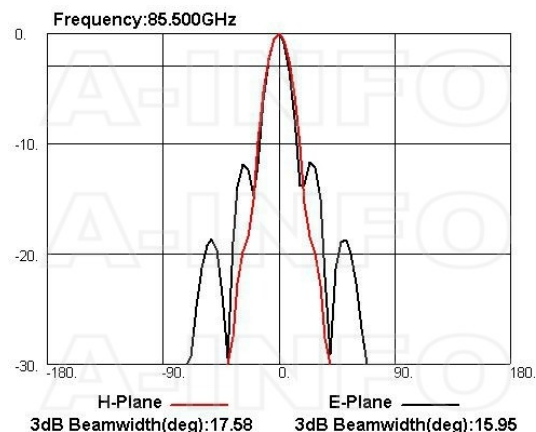
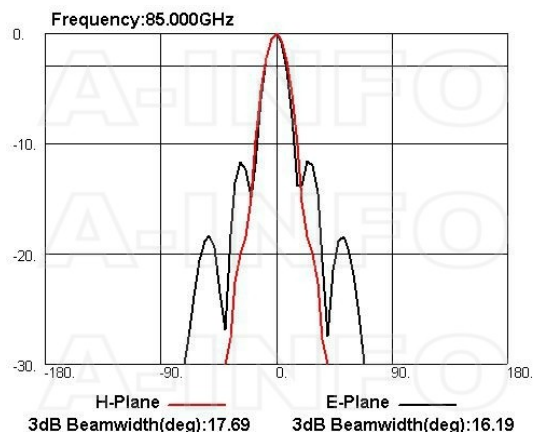
Pattern

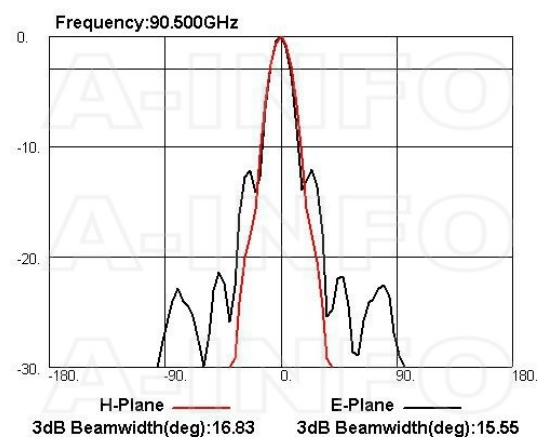
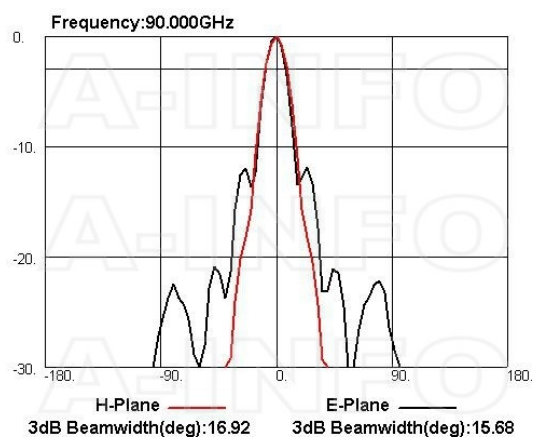
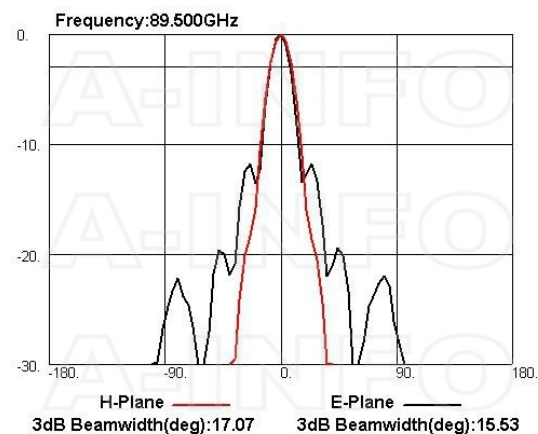
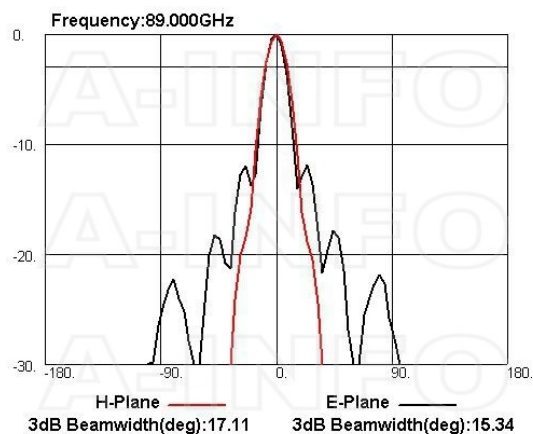
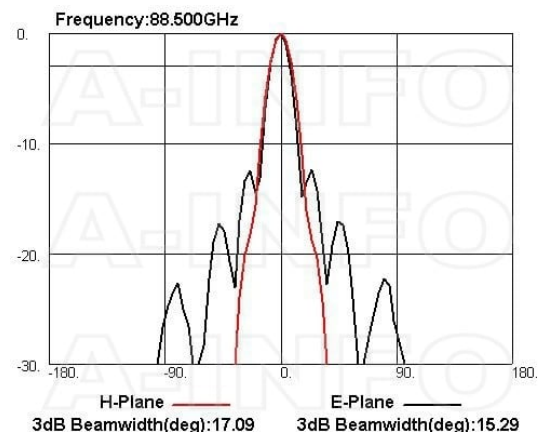
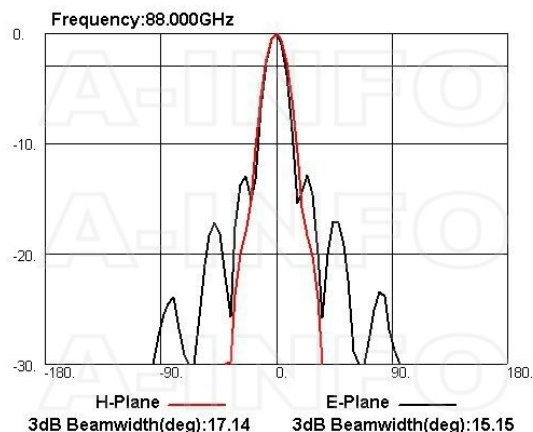


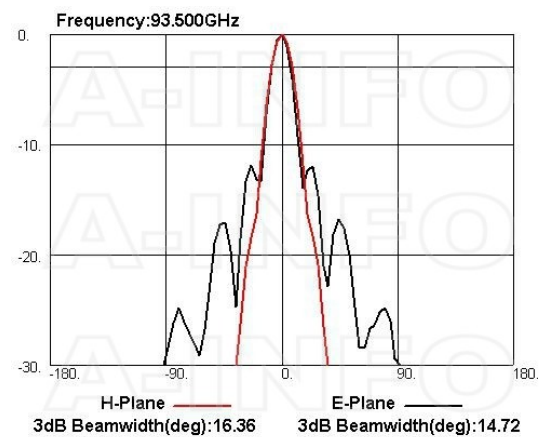
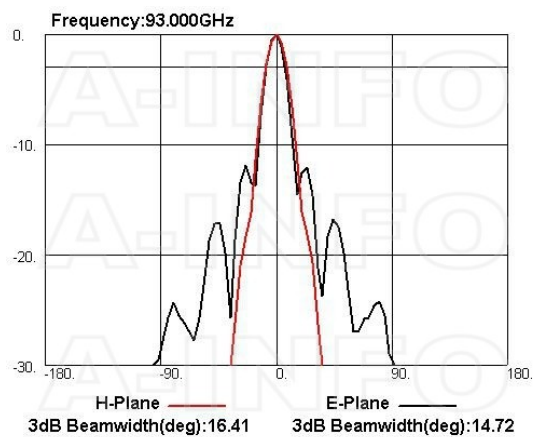
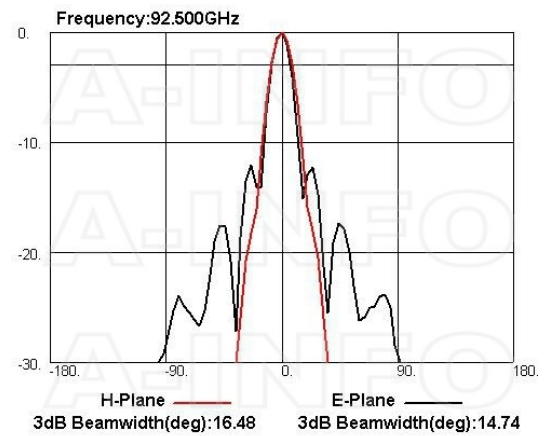
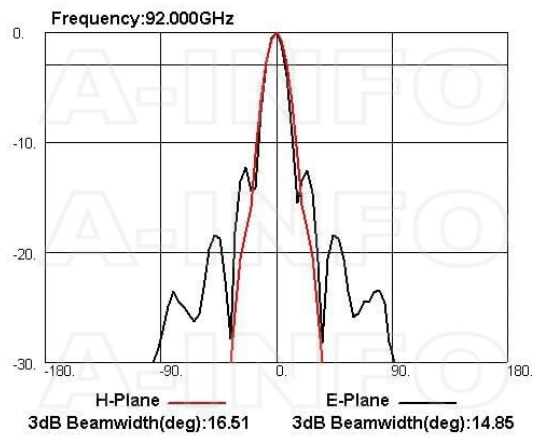
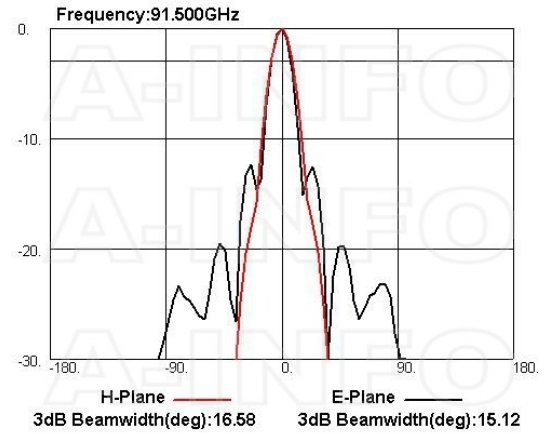
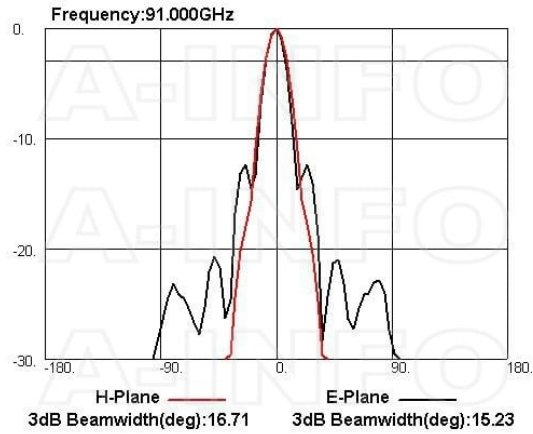


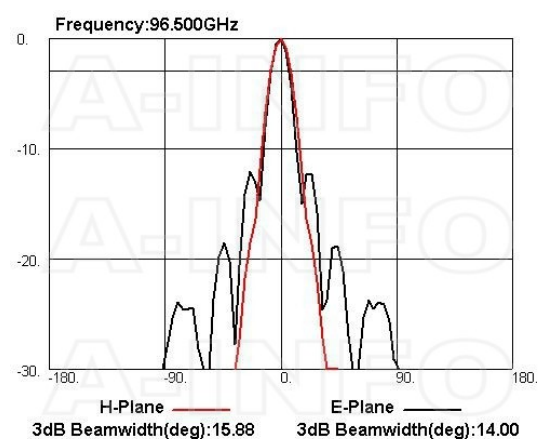
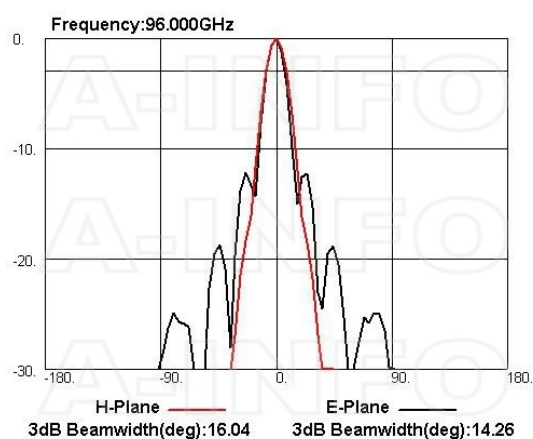
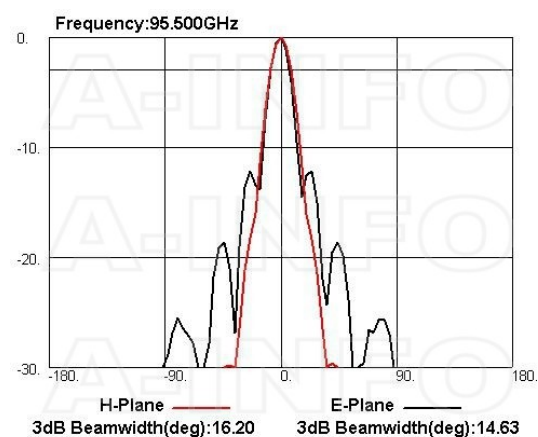
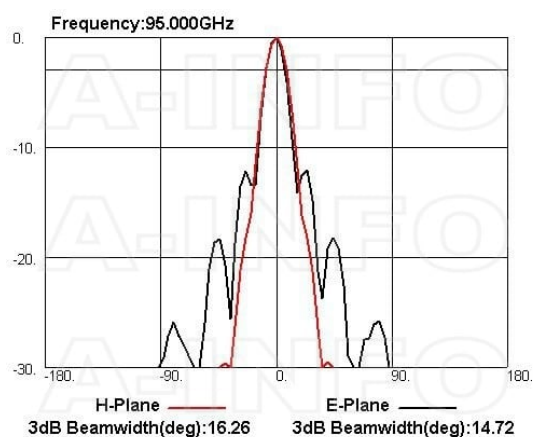
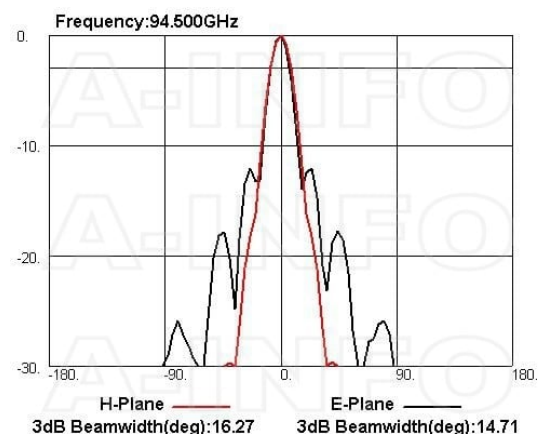
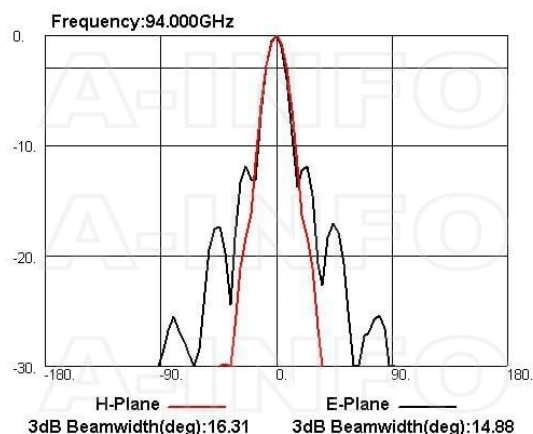


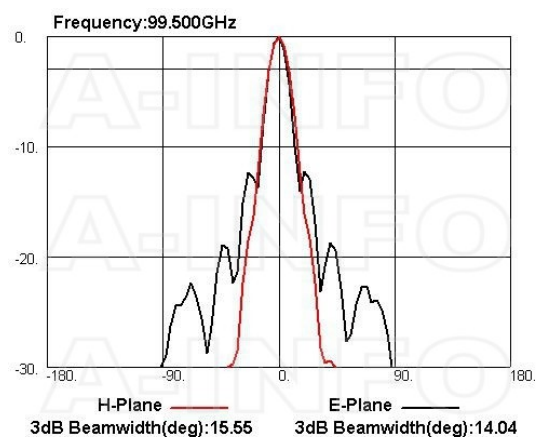
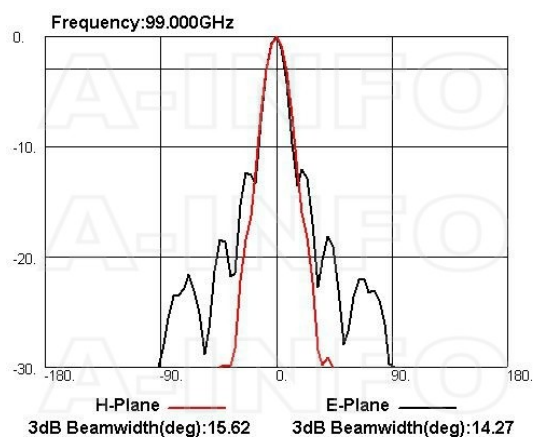
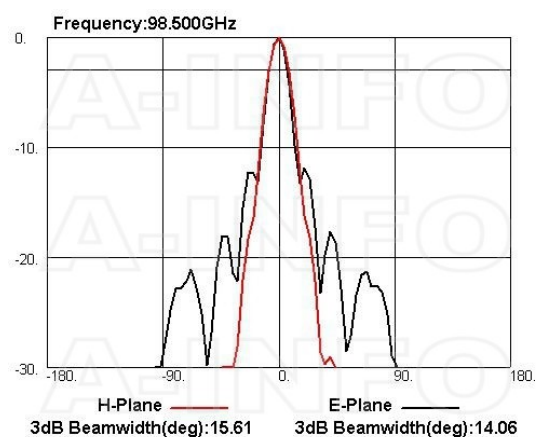
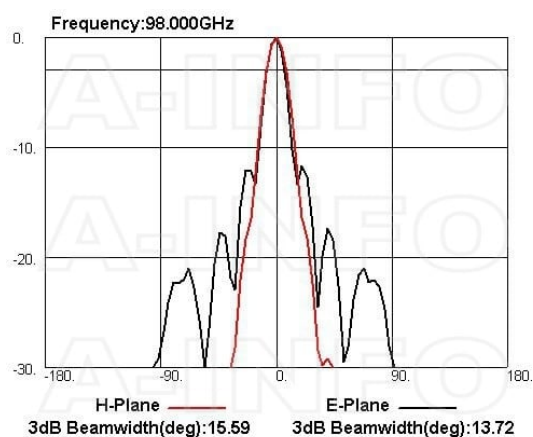
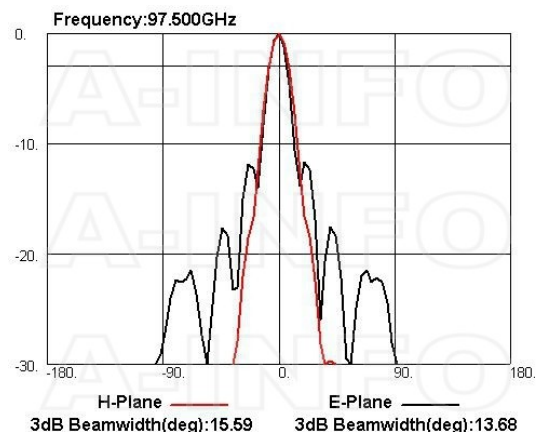
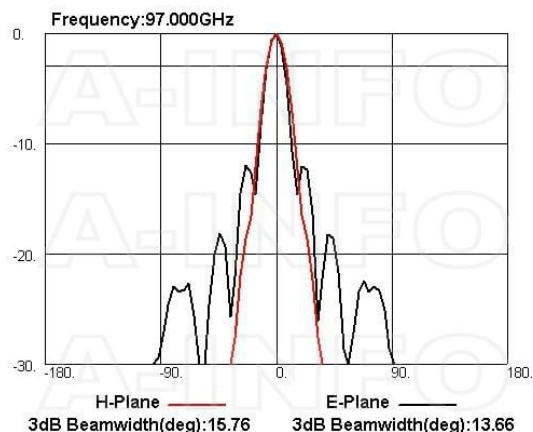


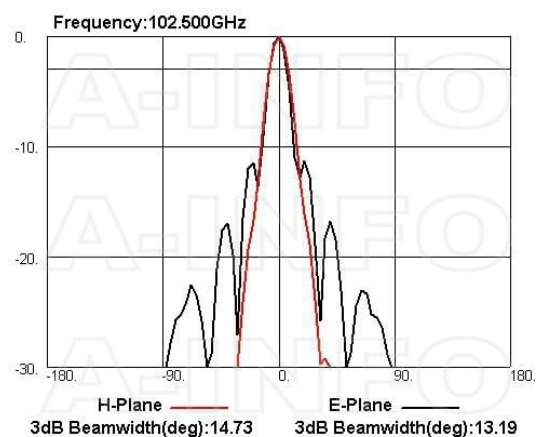
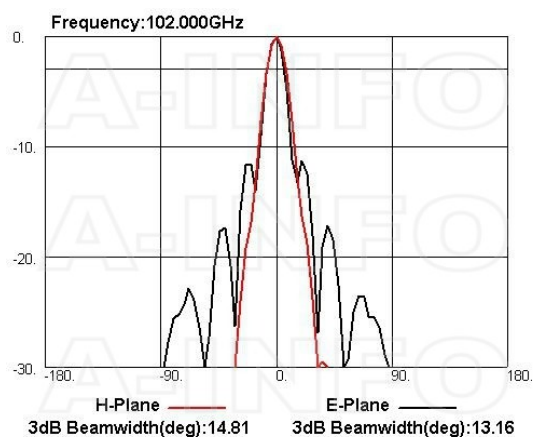
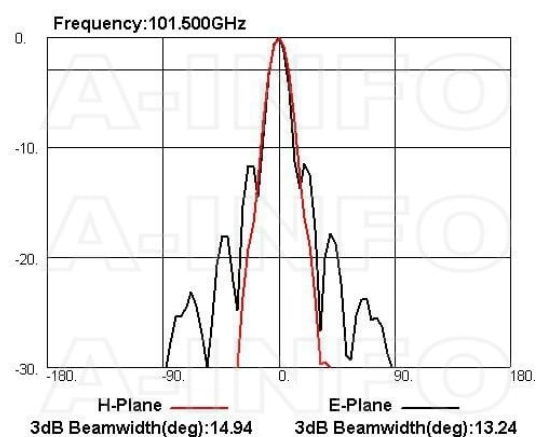
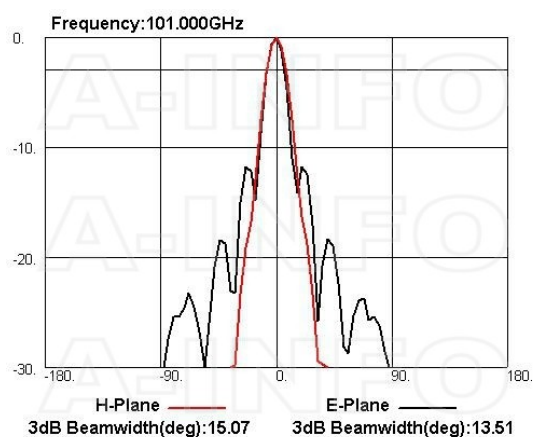
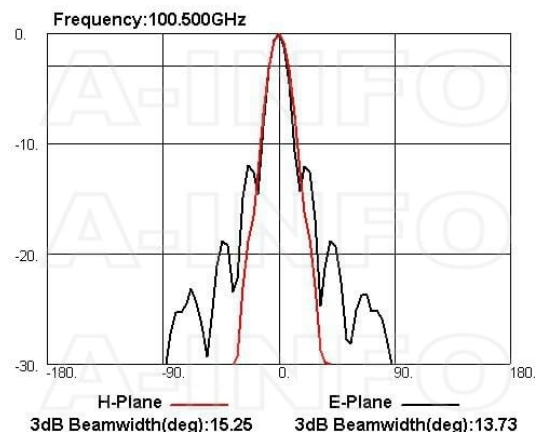
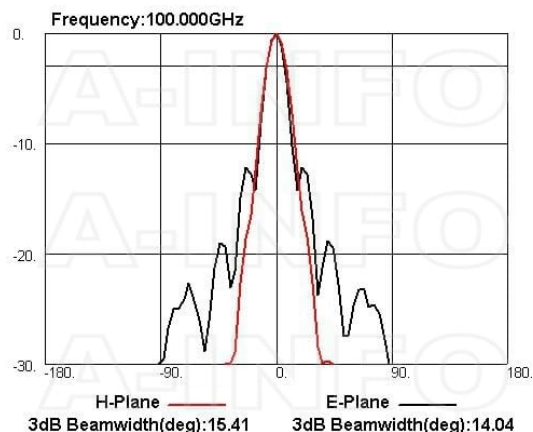


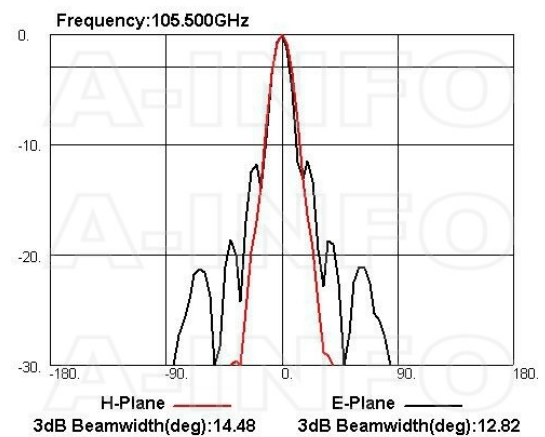
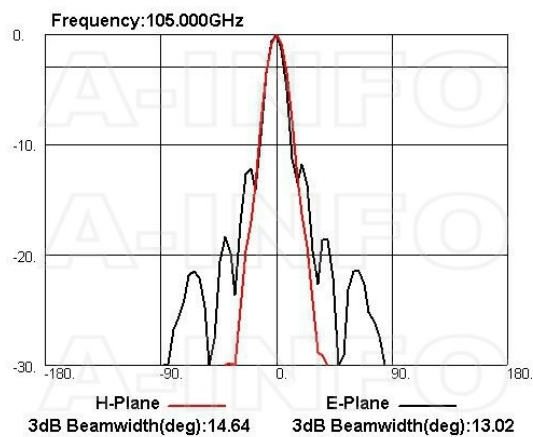
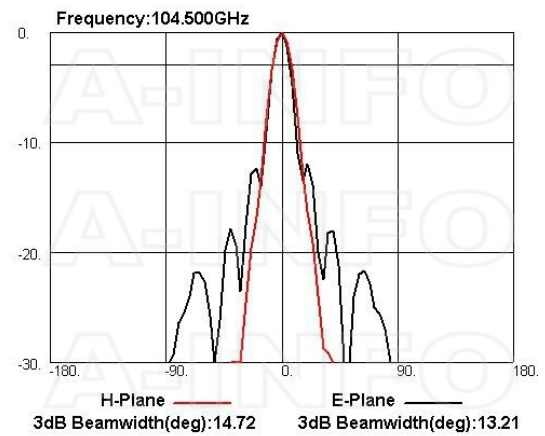
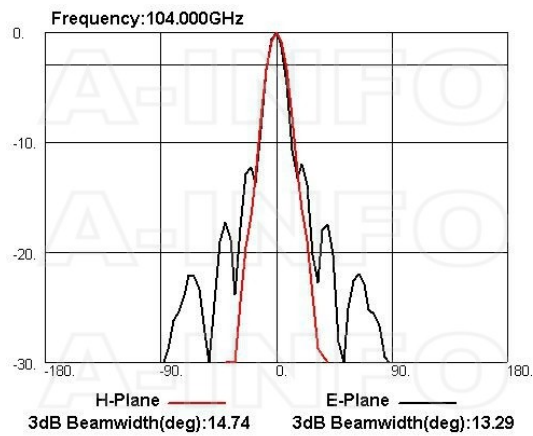
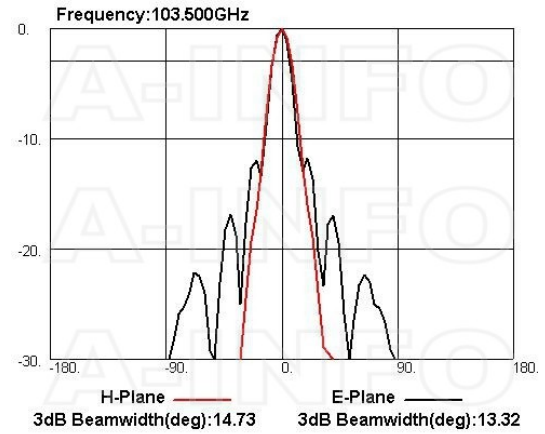
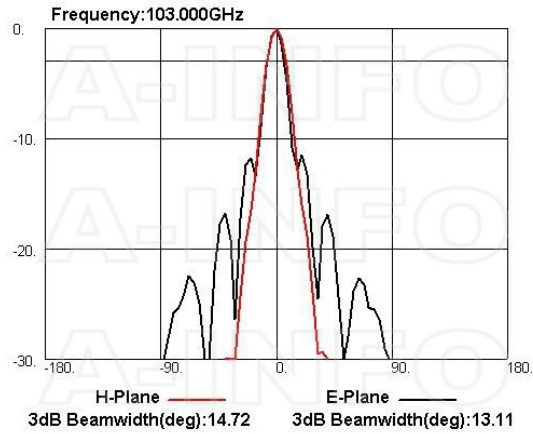


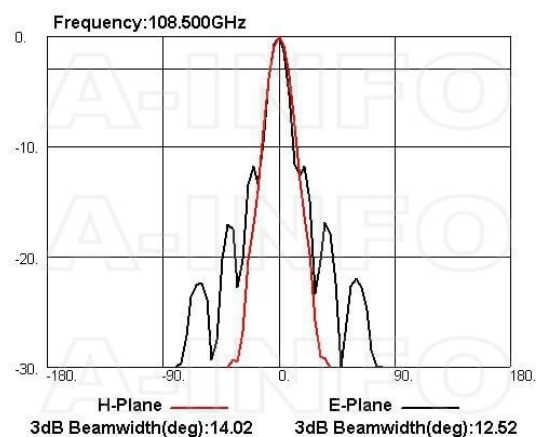
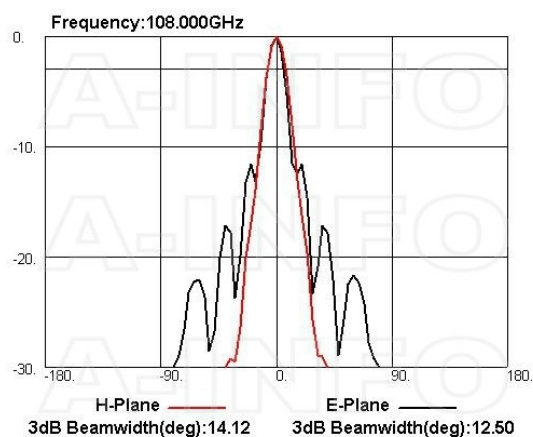
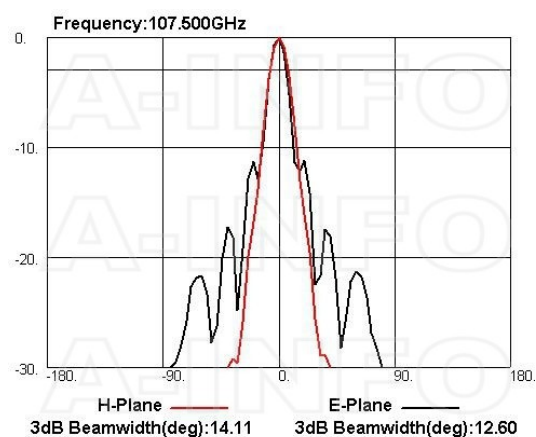
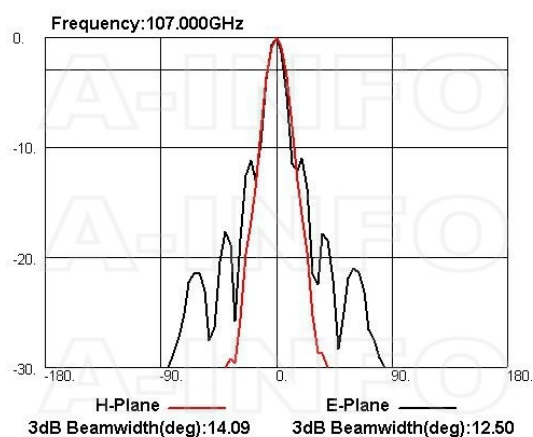
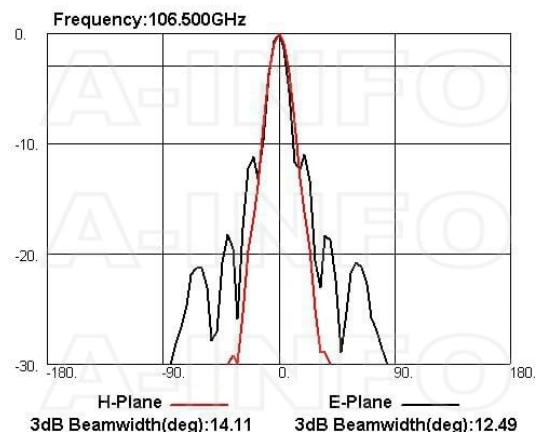
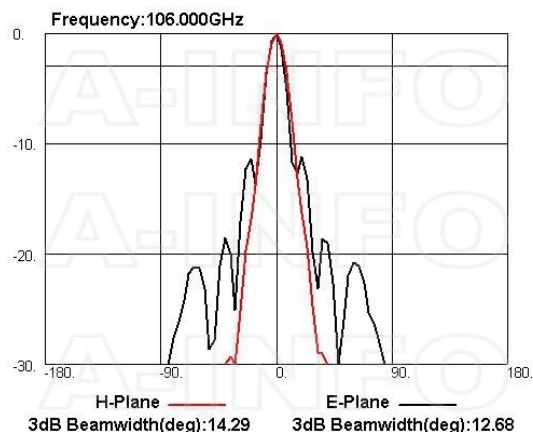


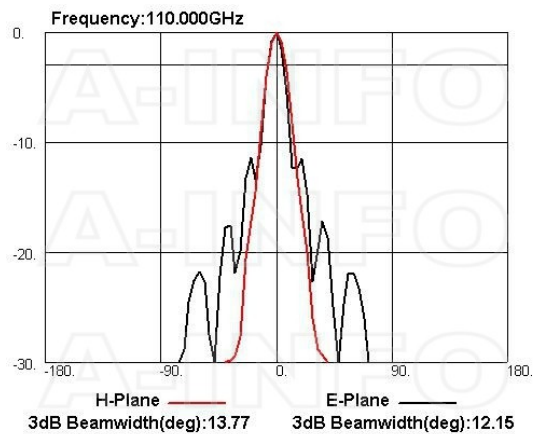
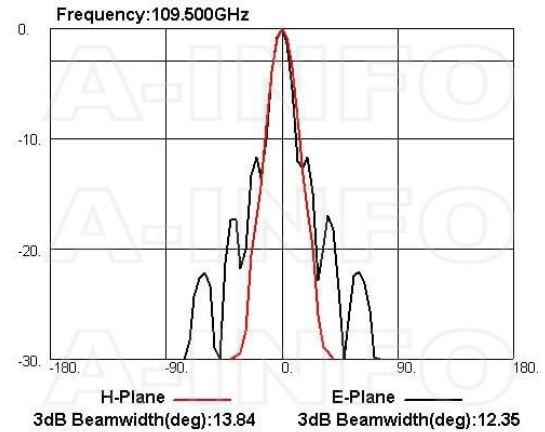
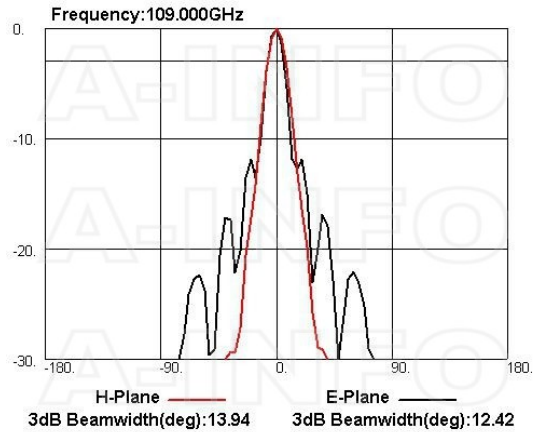












Related Products



10WCA1.0_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 75-110GHz WR10 to 1.0mm Female



10WCA1.0M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 75-110GHz WR10 to 1.0mm Male



10WECA1.0_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 75-110GHz WR10 to 1.0mm Female

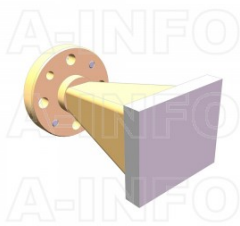


10WECA1.0M_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 75-110GHz WR10 to 1.0mm Male



HSCS_4-40UNC_Pack Assembly
Pack

Similar Products



LB-10-20-ASPO Standard Gain
Horn Antenna 75-110GHz 20dB
Gain Rectangular Waveguide
Interface



LB-10-20-C-1.0F Standard Gain
Horn Antenna 75-110GHz 20dB
Gain 1.0mm Female



LB-10-20-C-1.0FSPO Standard
Gain Horn Antenna 75-110GHz
20dB Gain 1.0mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-10-20-a-standard-gain-horn-antenna-75-110-ghz-20db-gain-fugp900 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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