

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

Standard Gain Horn Antenna Operating From 75GHz to 110GHz With a
Nominal 20dB Gain With 1.0mm Female Connector



Product Information

SKU	LB-10-20-C-1.0F
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Description

Standard Gain Horn Antenna LB-10-20-C-1.0F, operating from 75 to 110GHz with a nominal 20dB gain and low VSWR 1.5:1 with 1.0mm Female connector output. The model LB-10-20-C-1.0F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 3W continuously and 5W peak power. 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

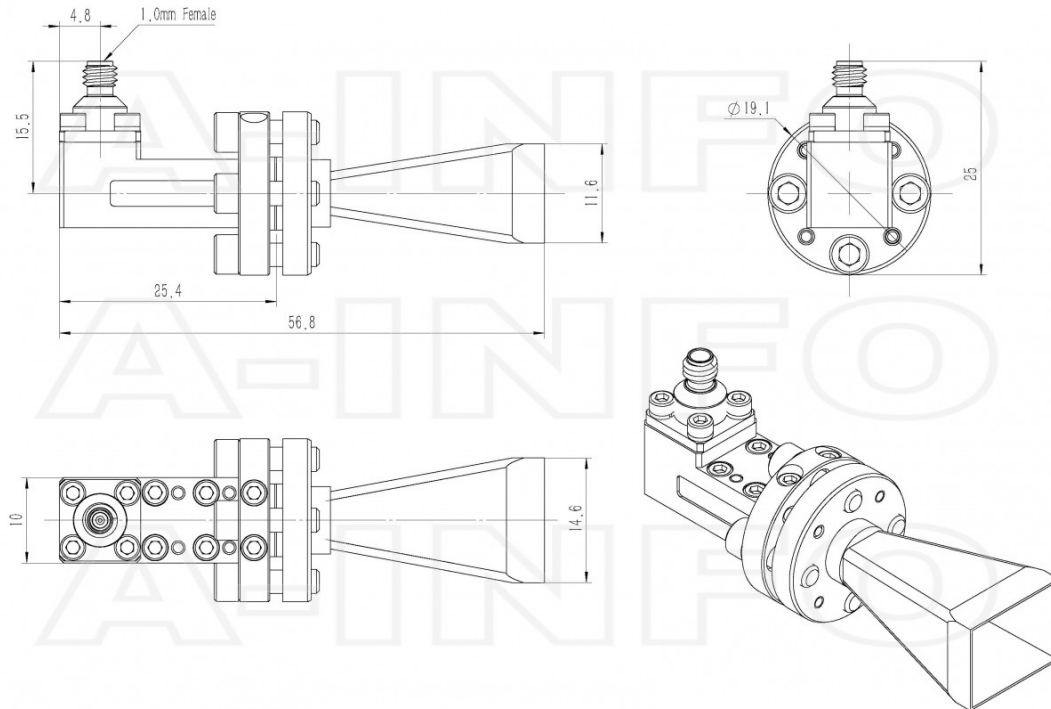
Electrical Specification		Interface	
Frequency, Min (GHz)	75	Output Type	Coaxial
Frequency, Max (GHz)	110	Connector	1.0mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR10	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Finish	Gold Plated
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Size, W (mm)	19.1
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	25
VSWR, Typ	1.5:1	Size, L (mm)	56.8
Impedance, (Ohm)	50	Weight, (kg)	0.05
Power Handling, CW, (W)	3		
Power Handling, Peak, (W)	5		

Additional Information

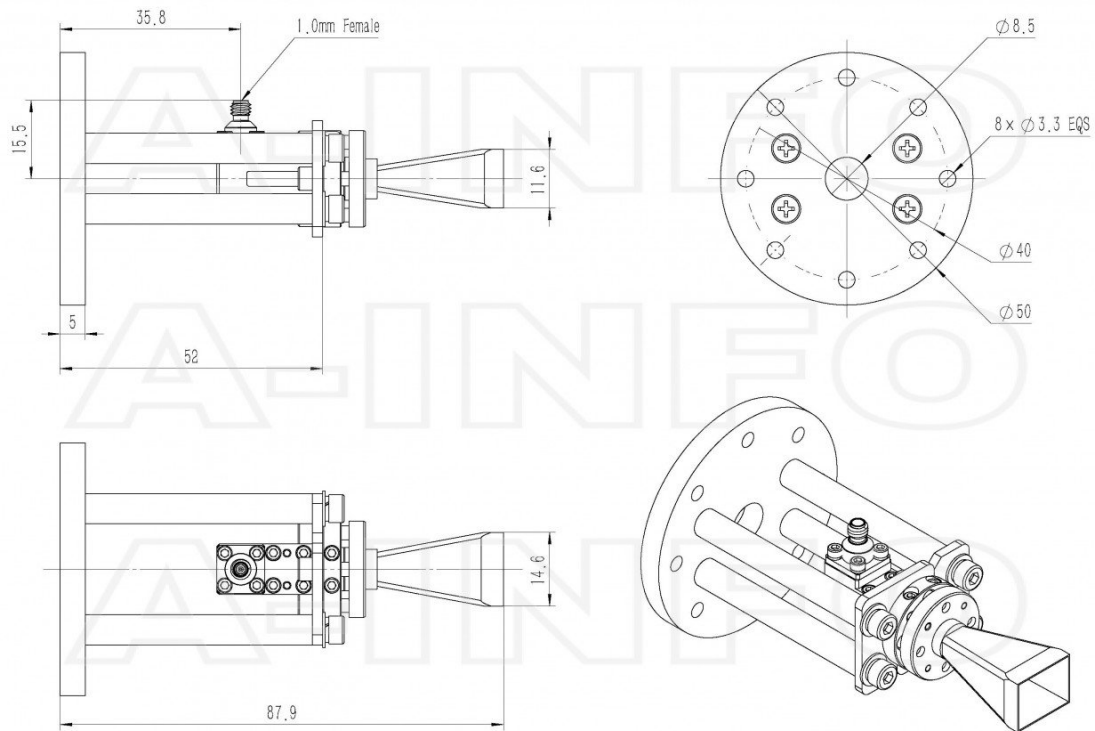
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

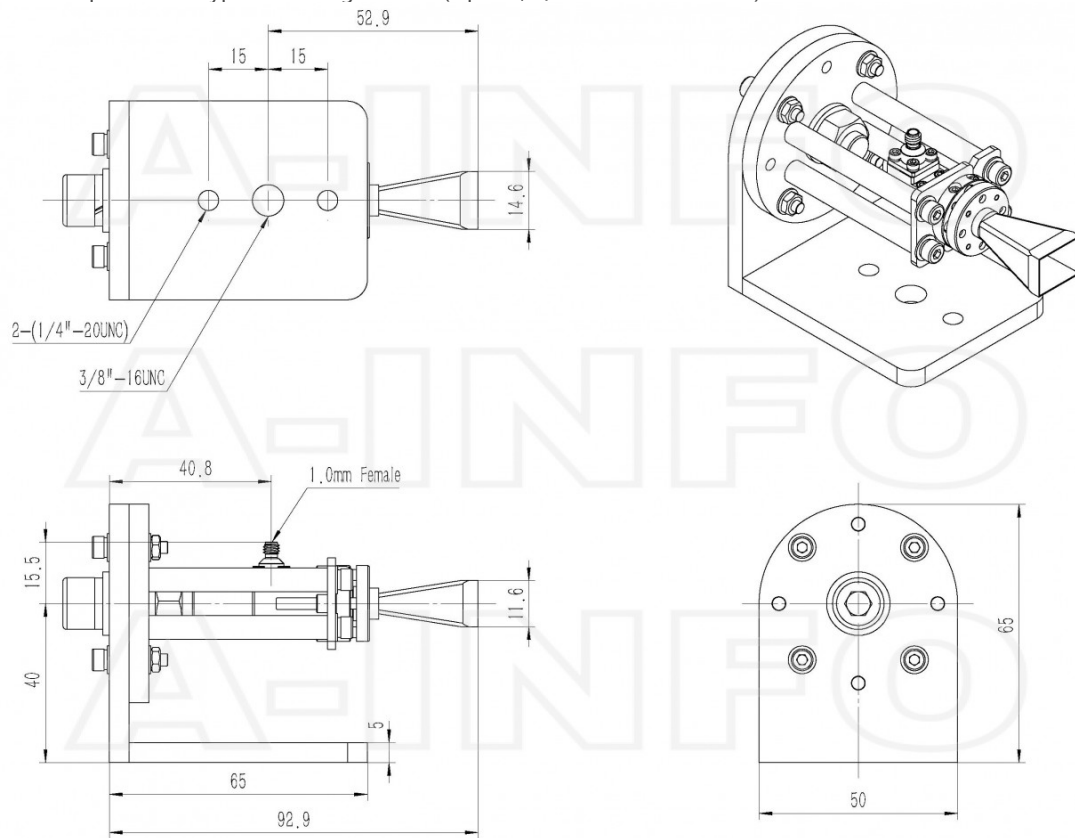
1.0mm-Female Output (P/N: LB-10-20-C-1.0F)



1.0mm-Female Output with Round Mounting Bracket (Option, P/N: LB-15-10-C-MB)

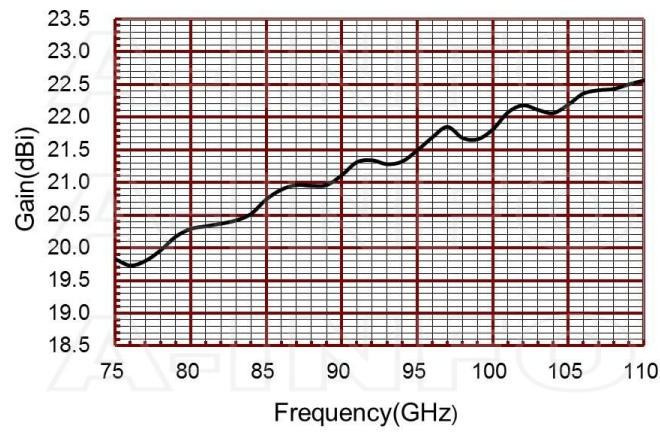


1.0mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-15-10-C-MBL)

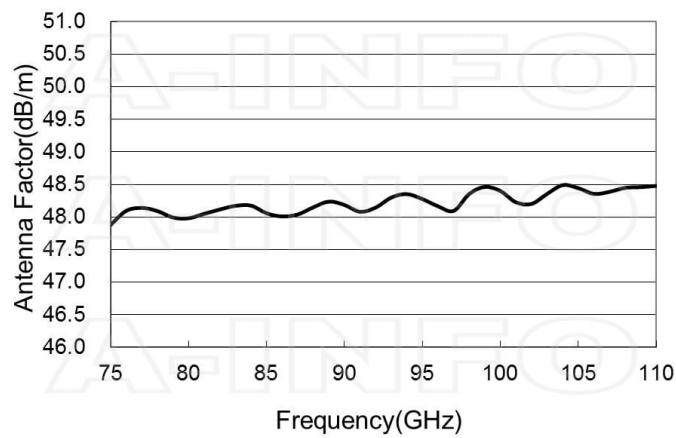


Typical Test Results

Gain



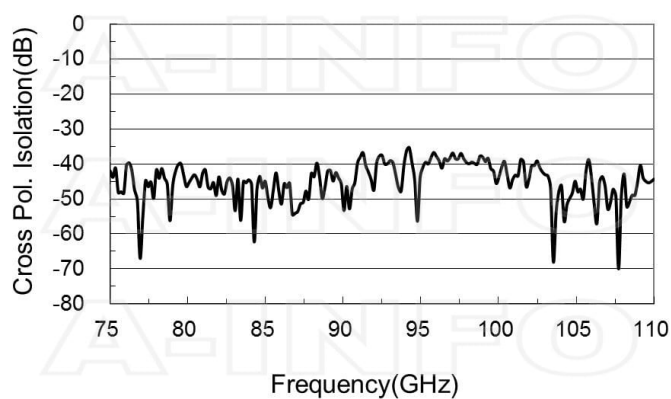
Antenna Factor



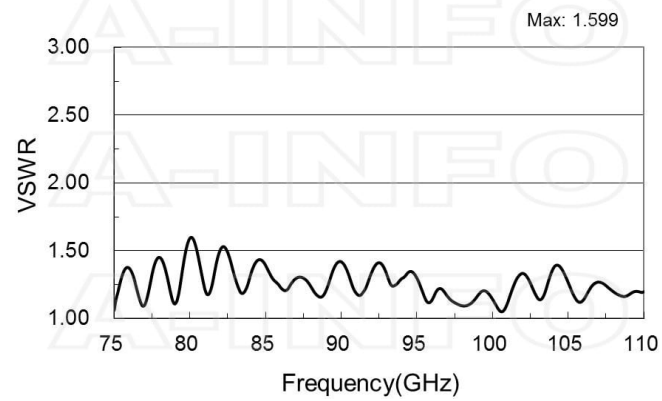
Antenna Factor (Table)

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

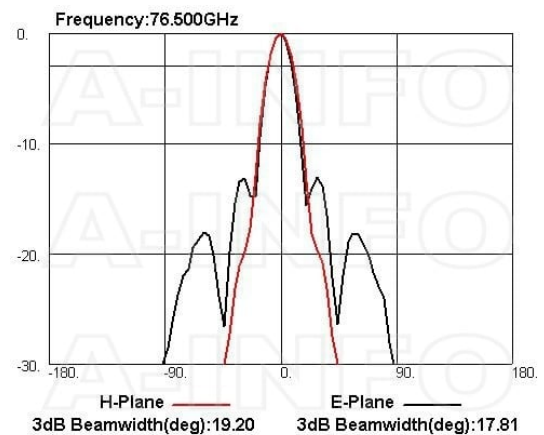
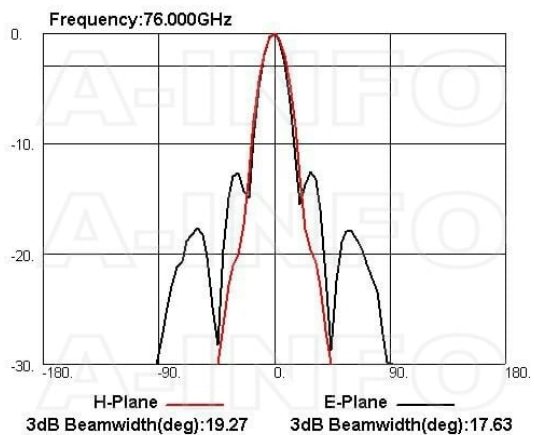
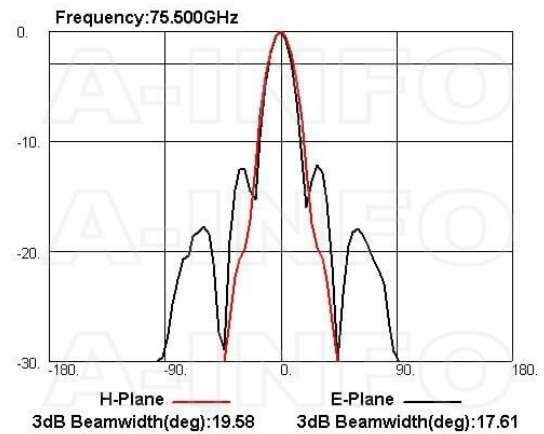
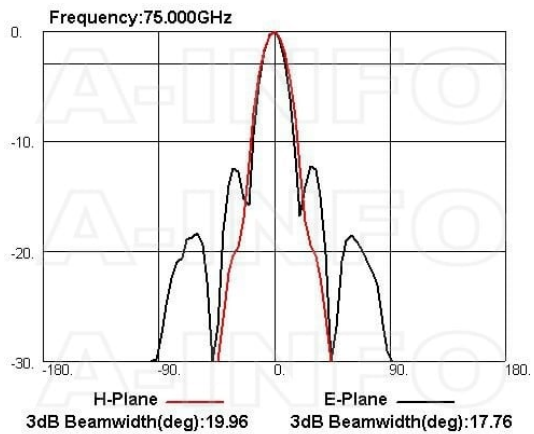
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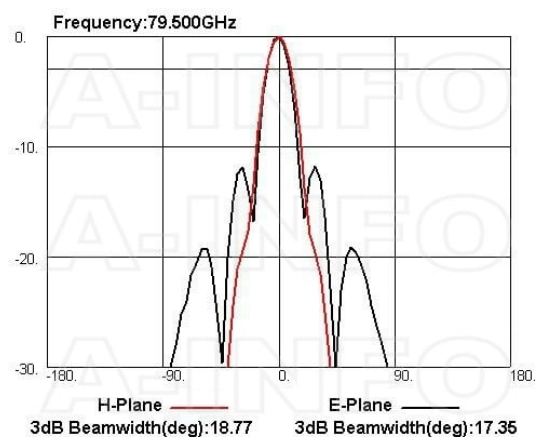
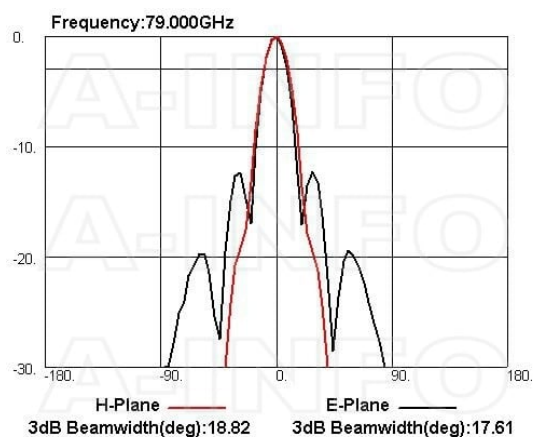
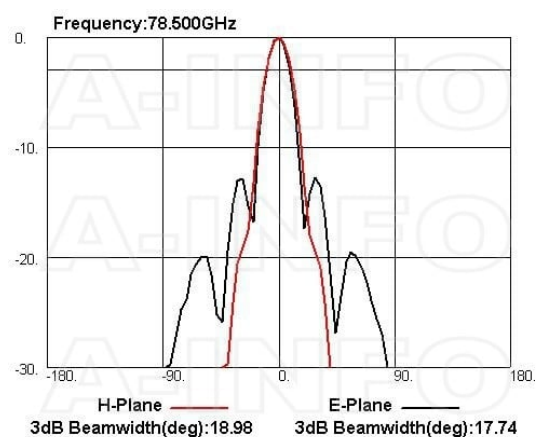
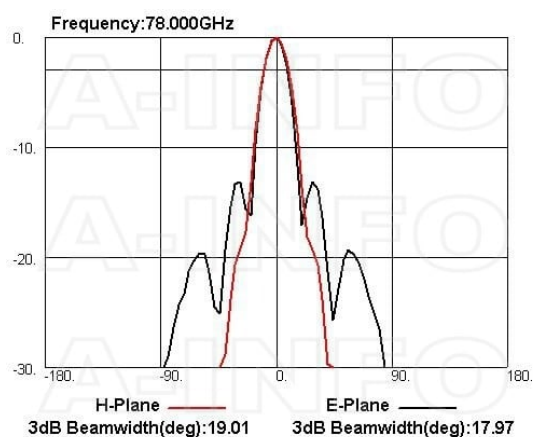
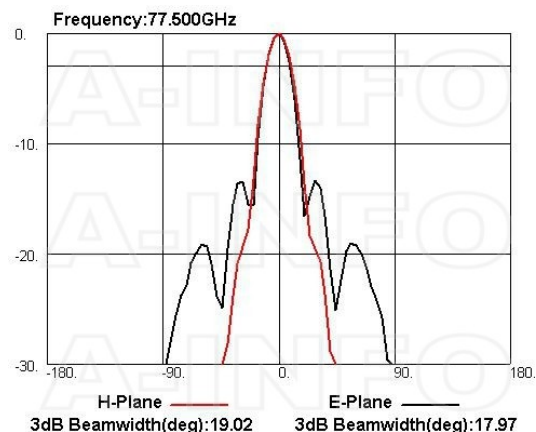
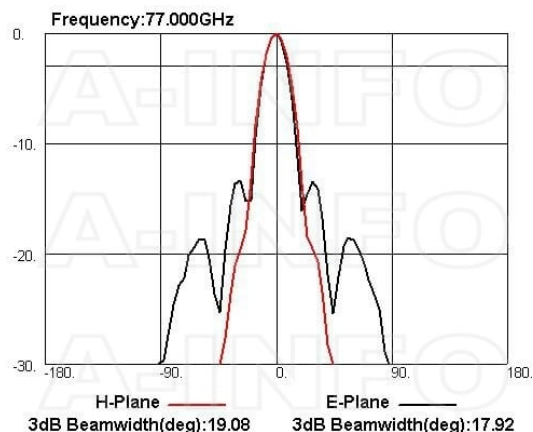


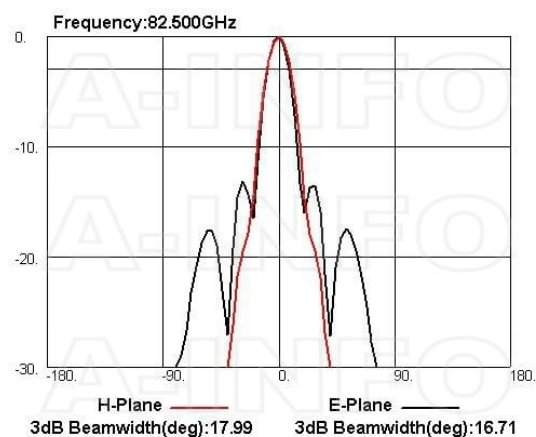
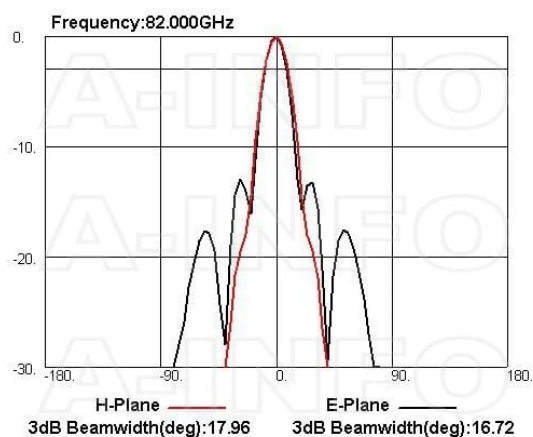
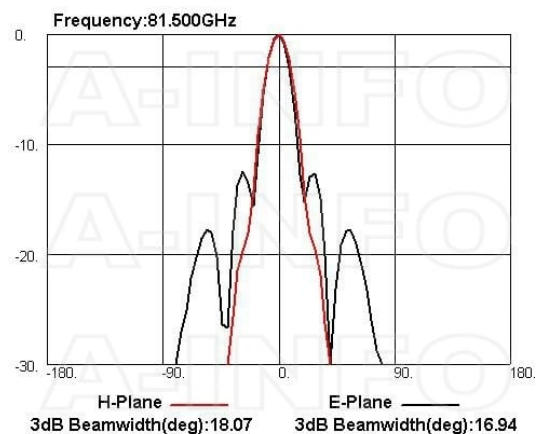
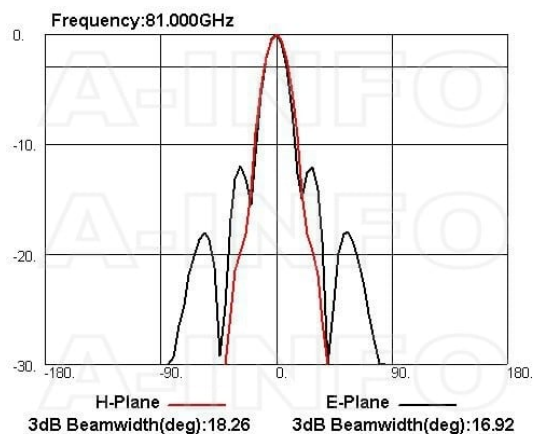
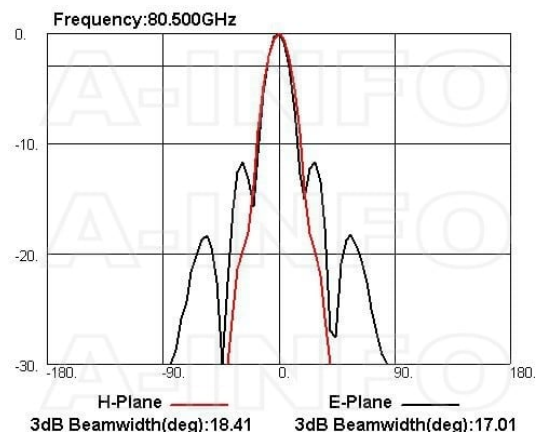
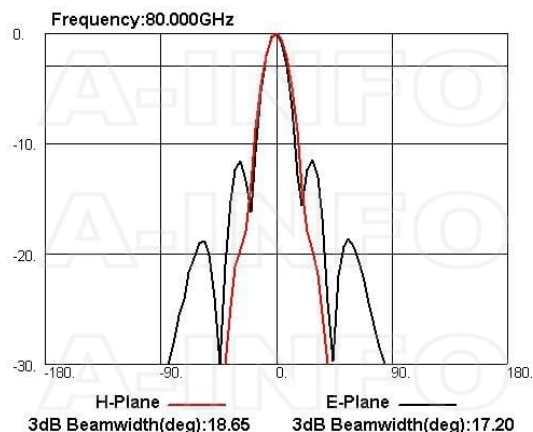
VSWR

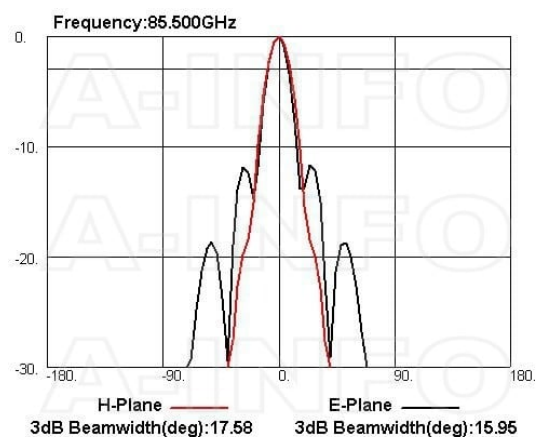
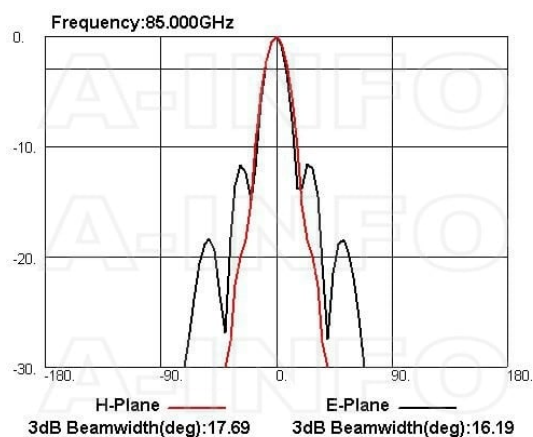
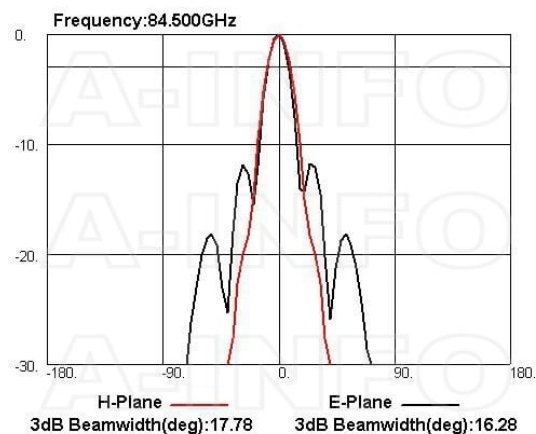
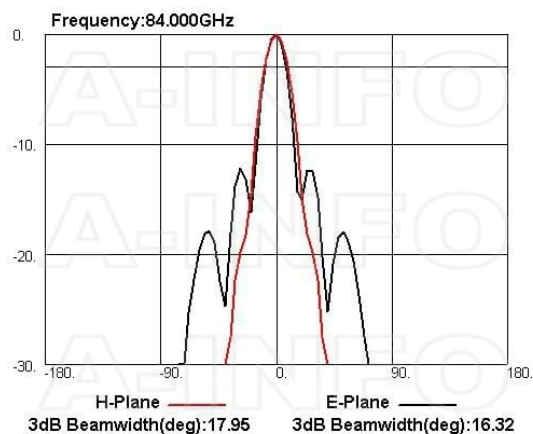
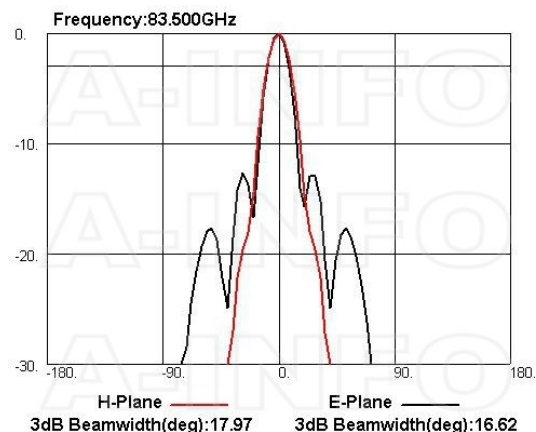
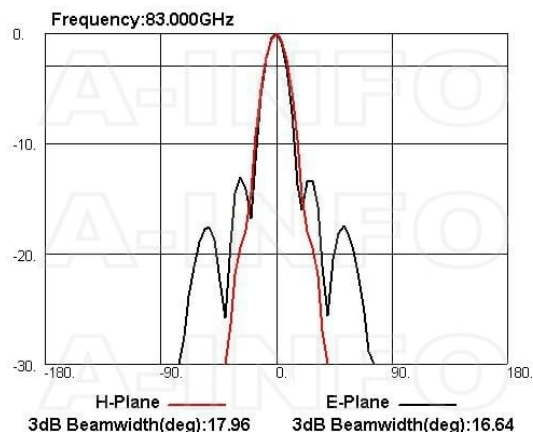


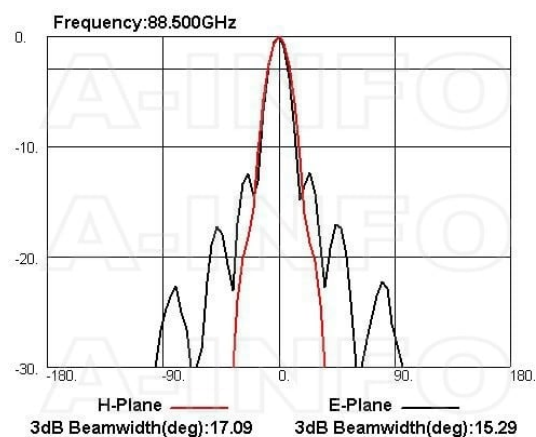
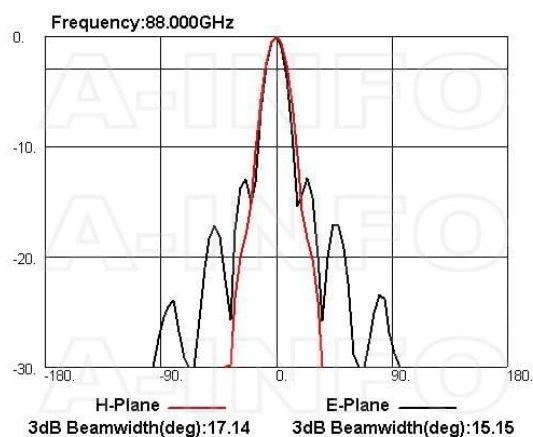
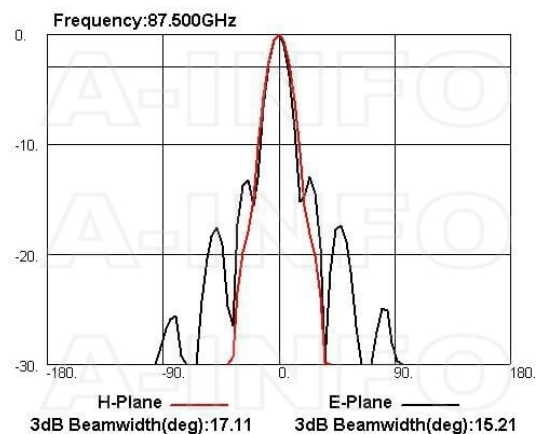
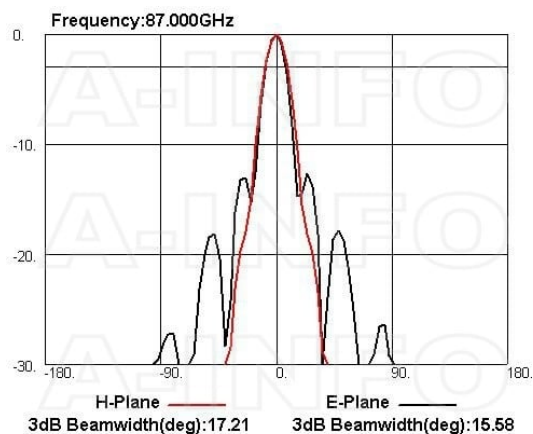
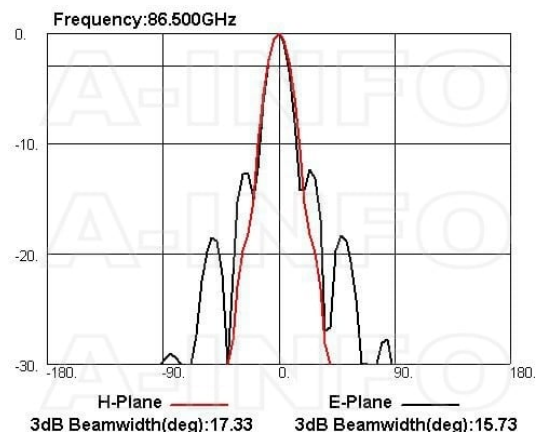
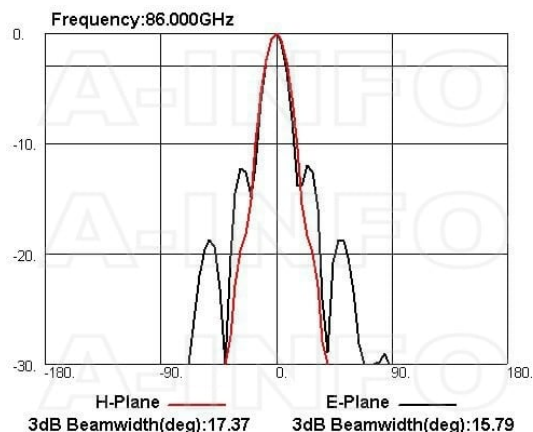
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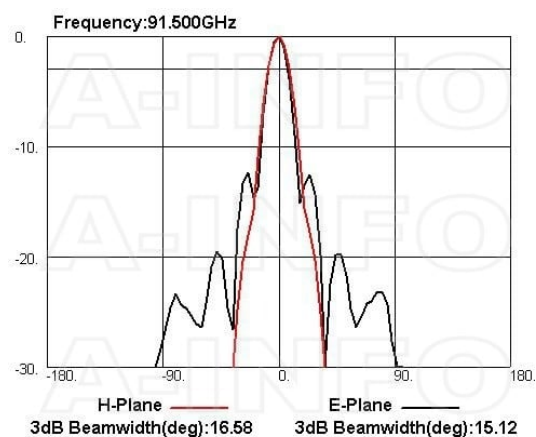
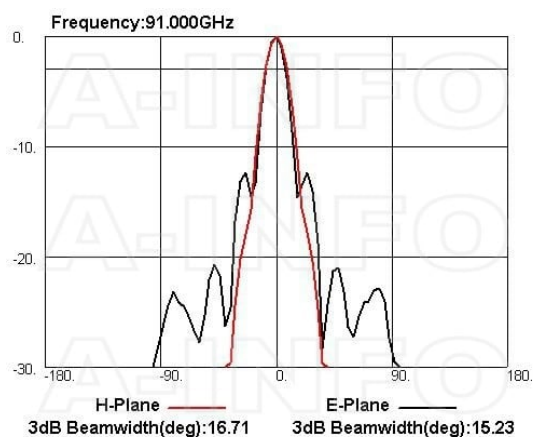
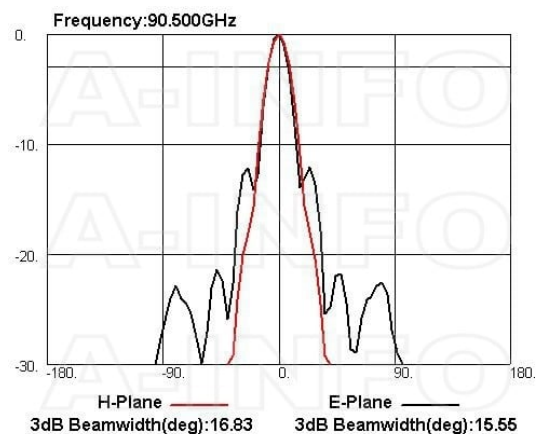
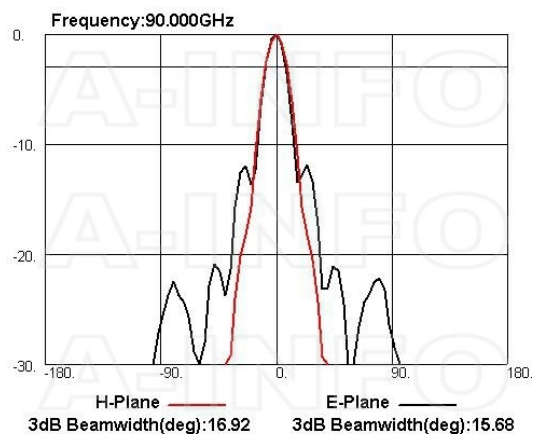
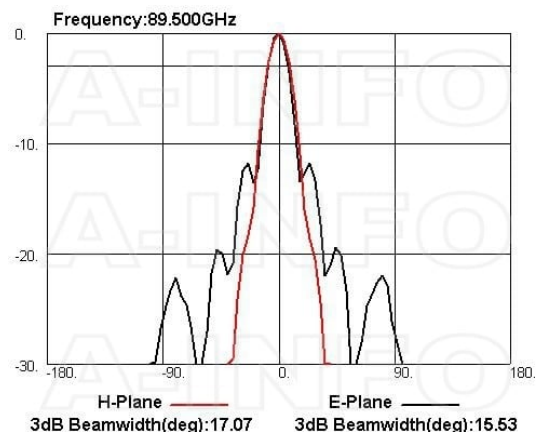
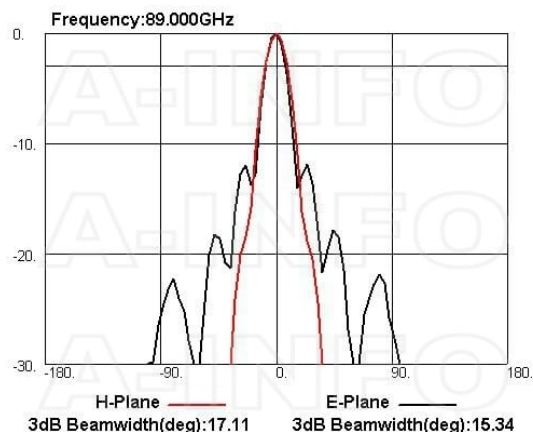


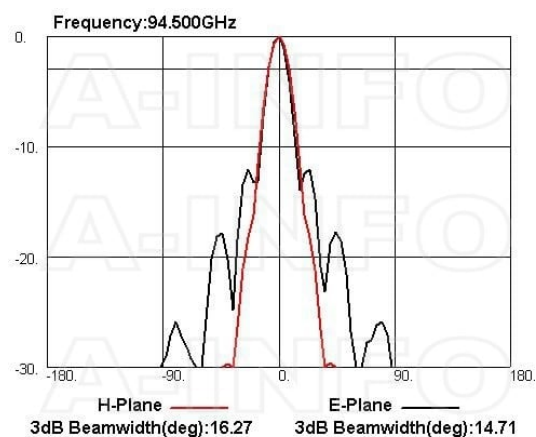
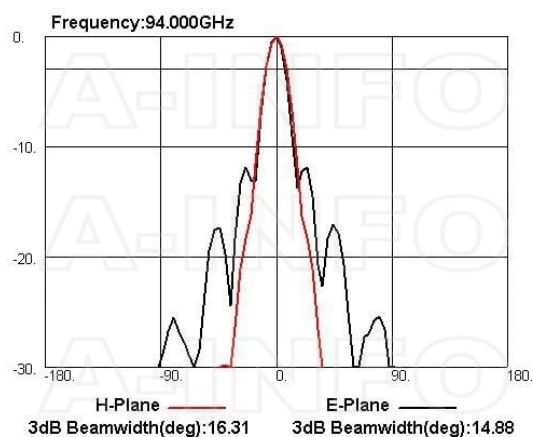
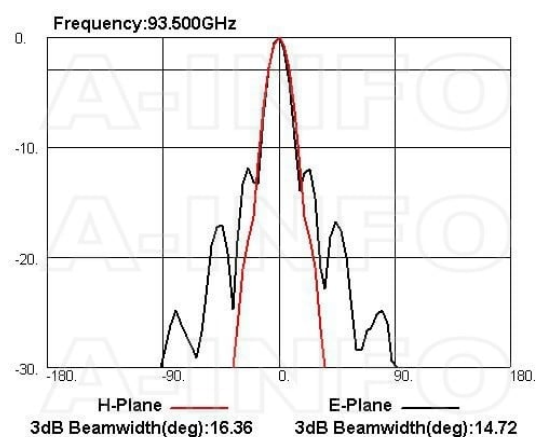
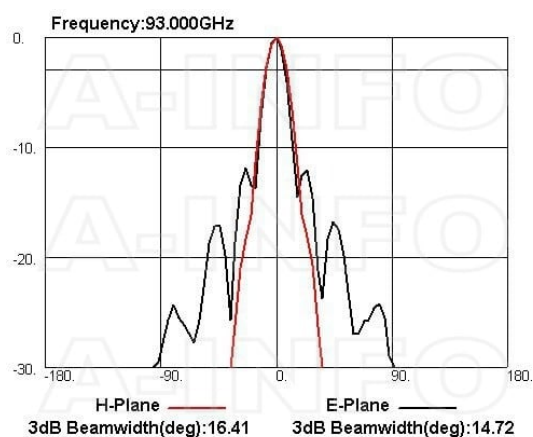
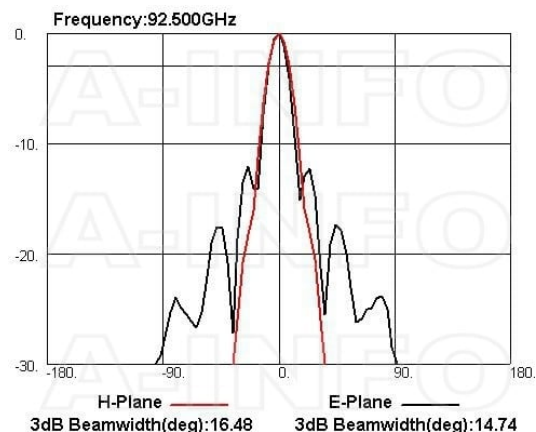
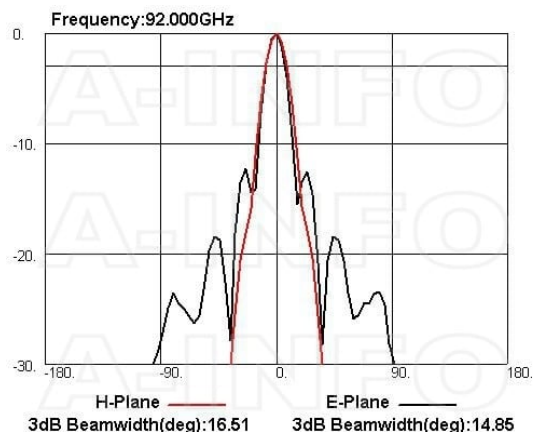


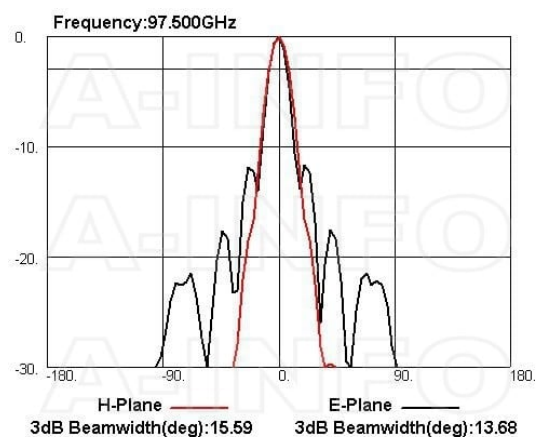
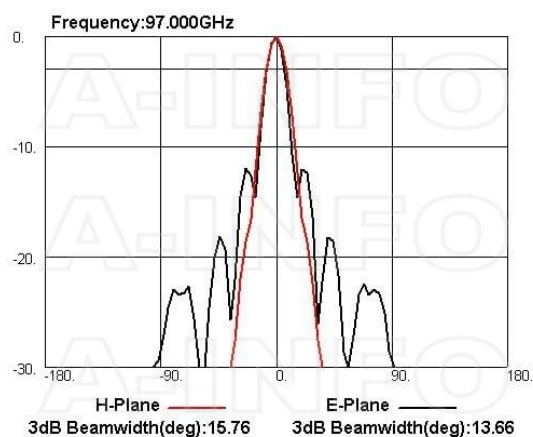
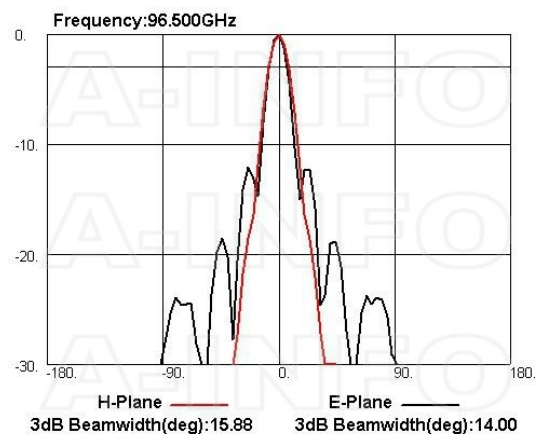
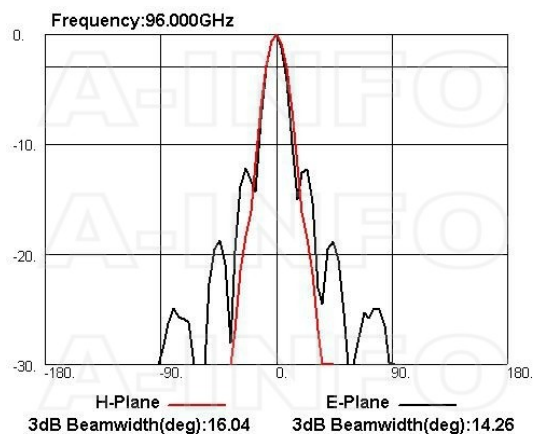
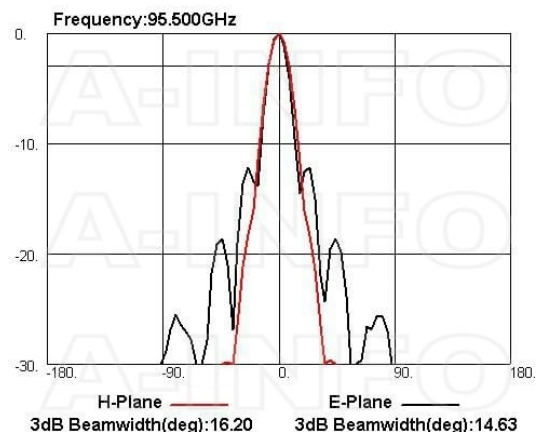
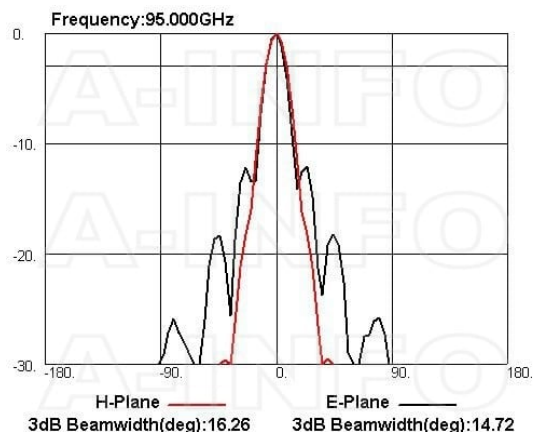


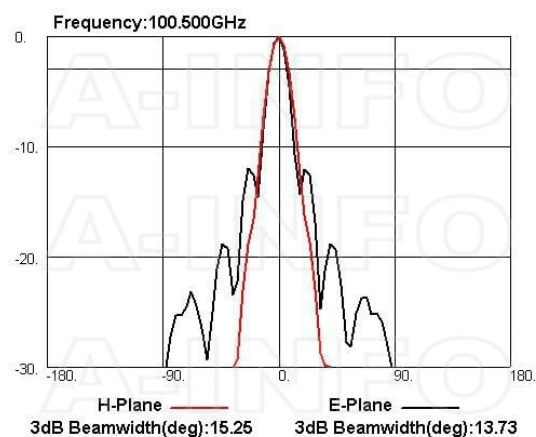
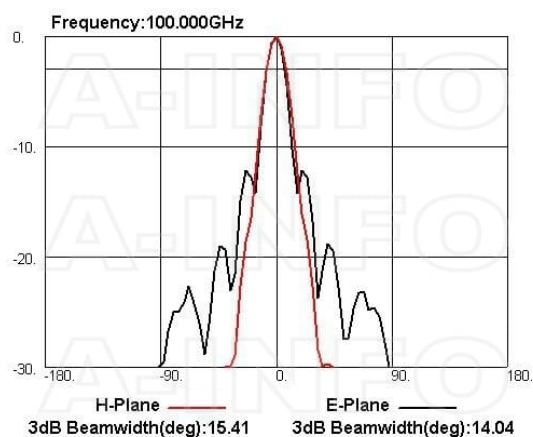
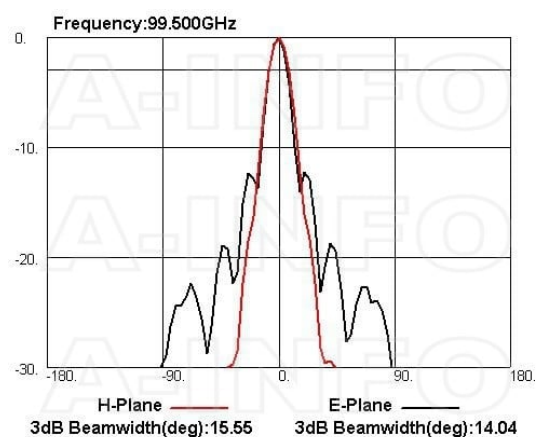
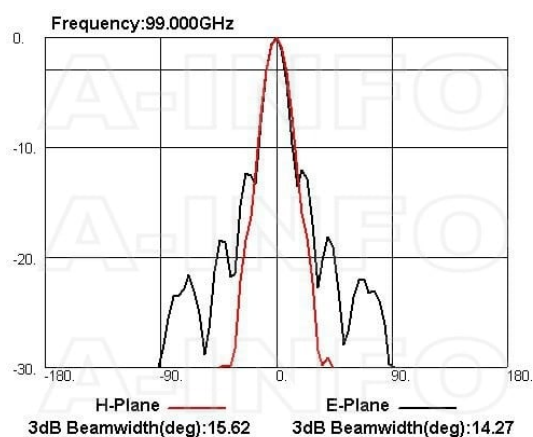
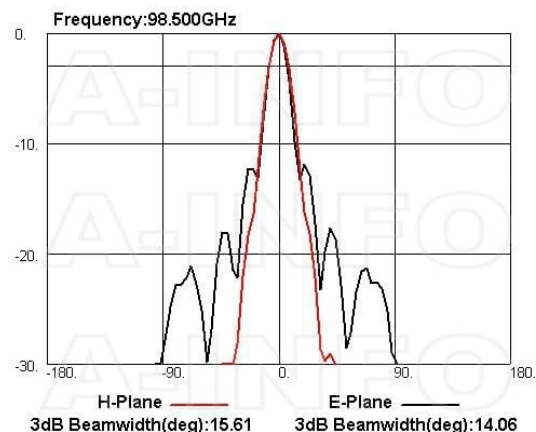
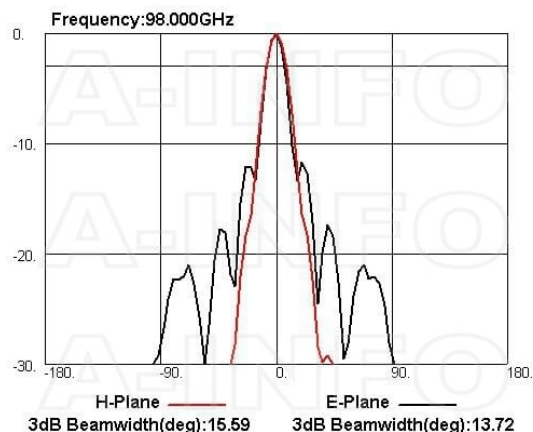


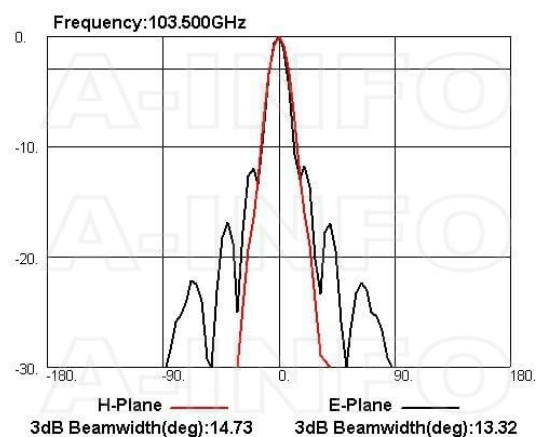
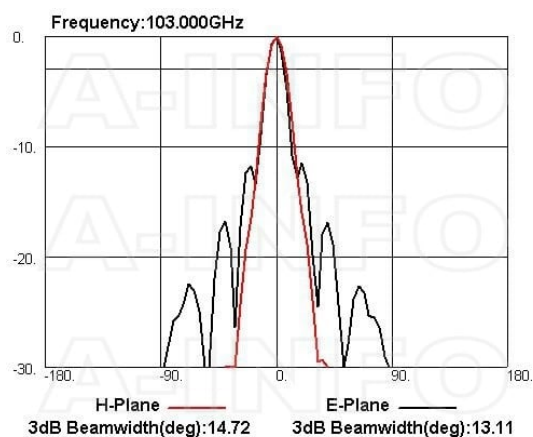
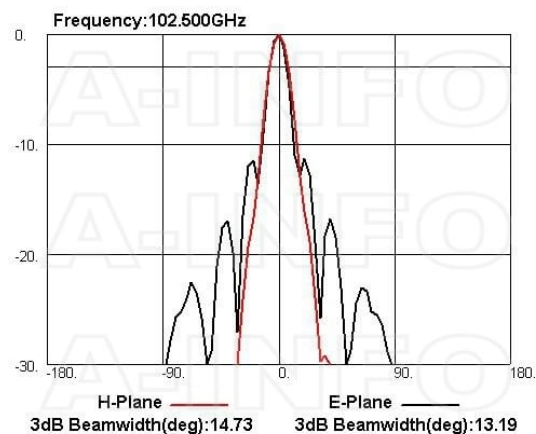
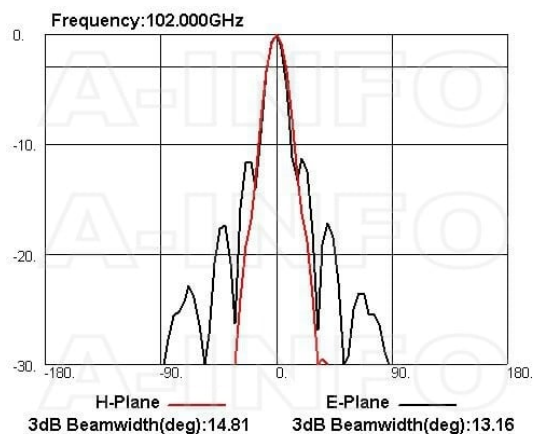
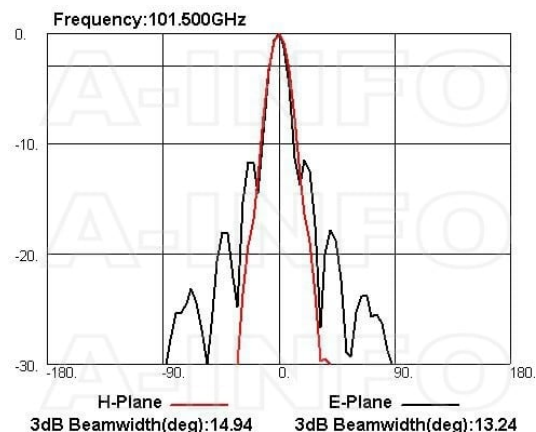
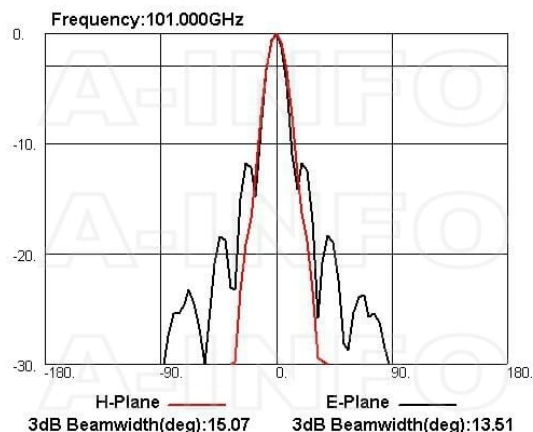


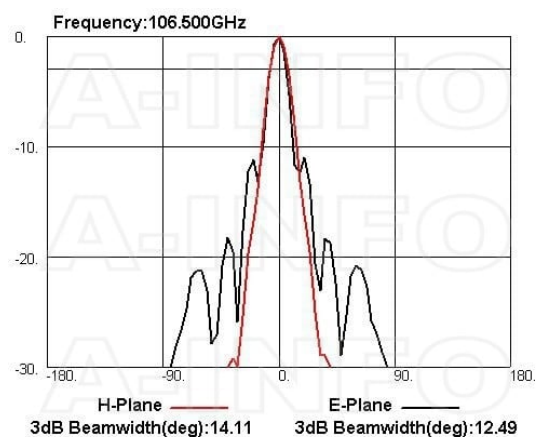
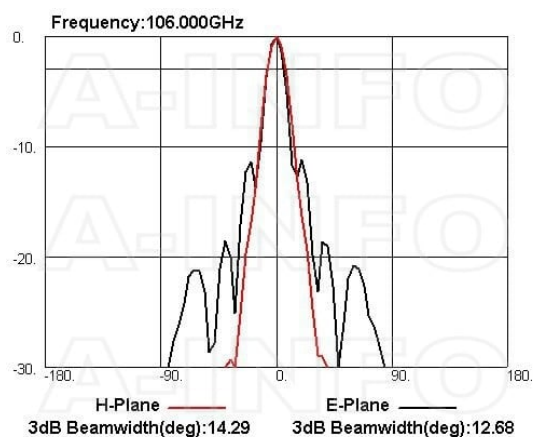
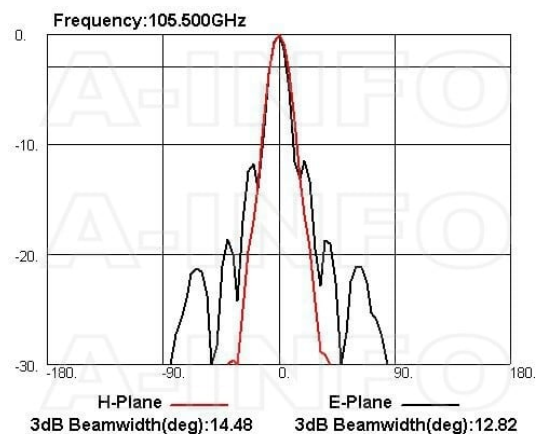
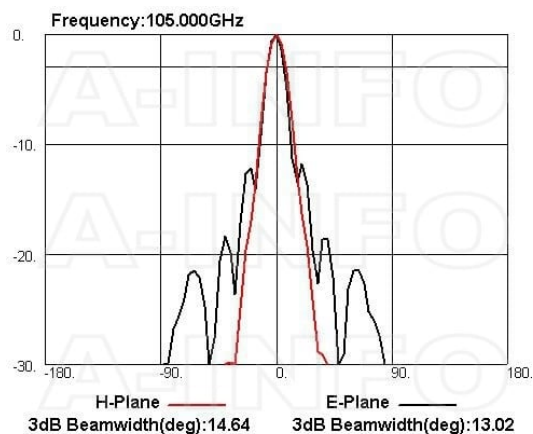
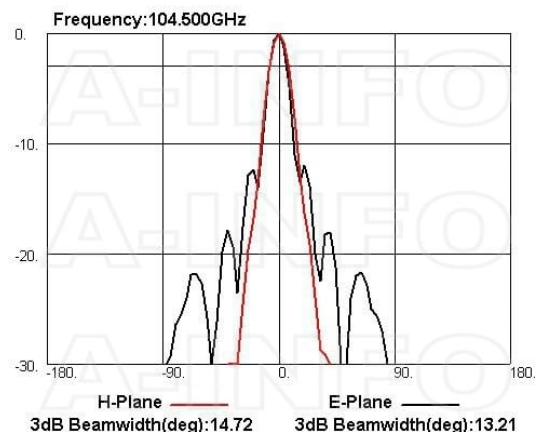
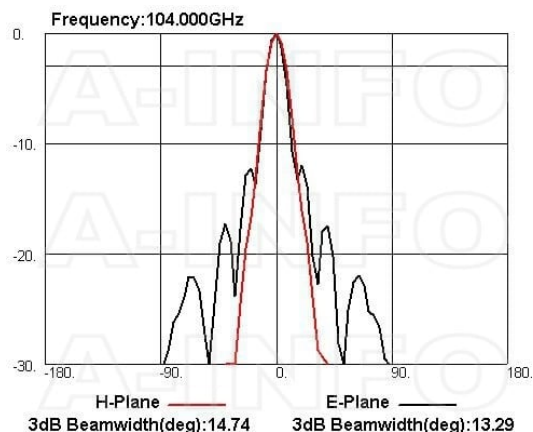


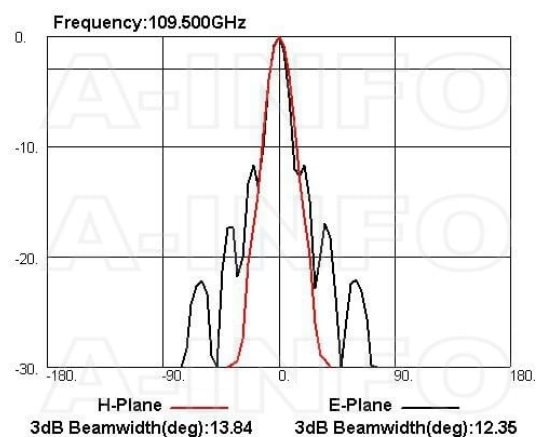
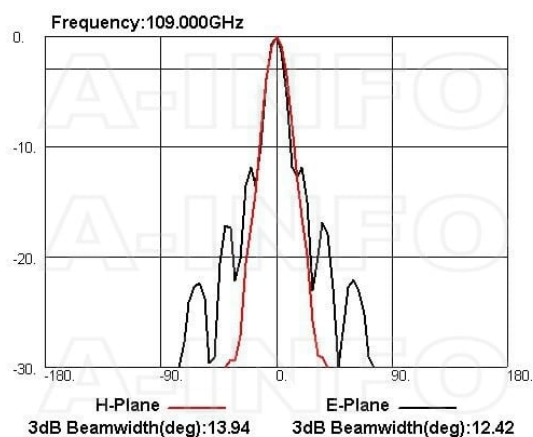
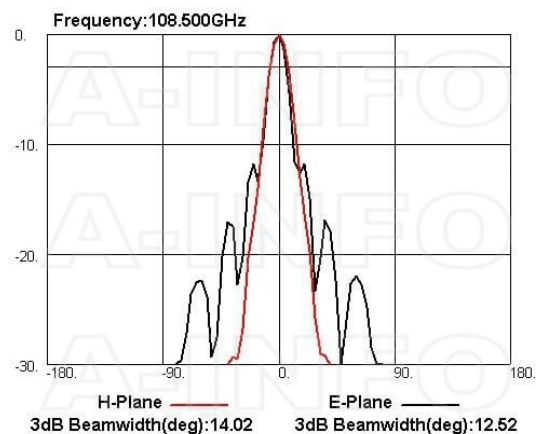
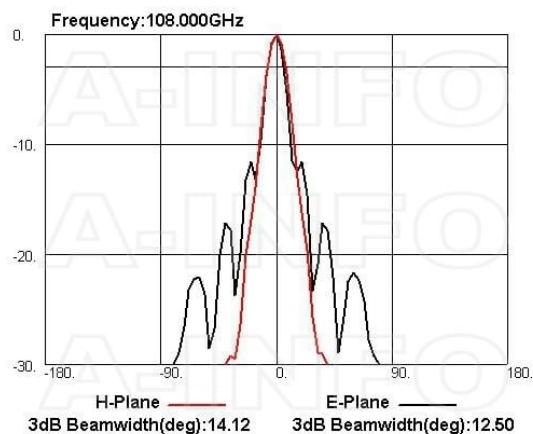
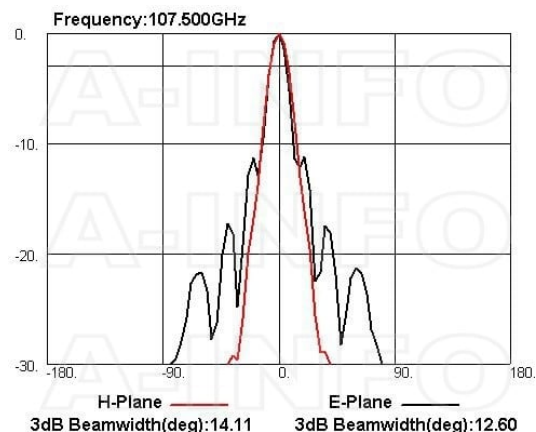
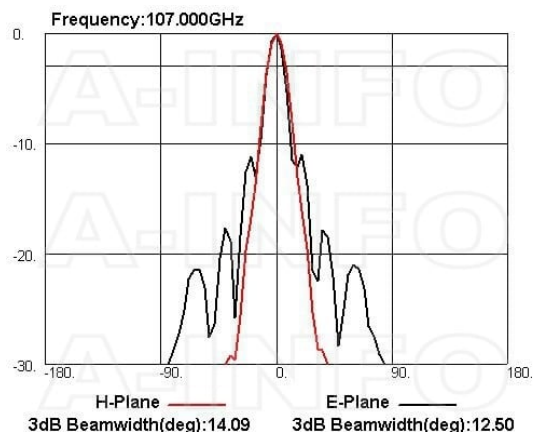


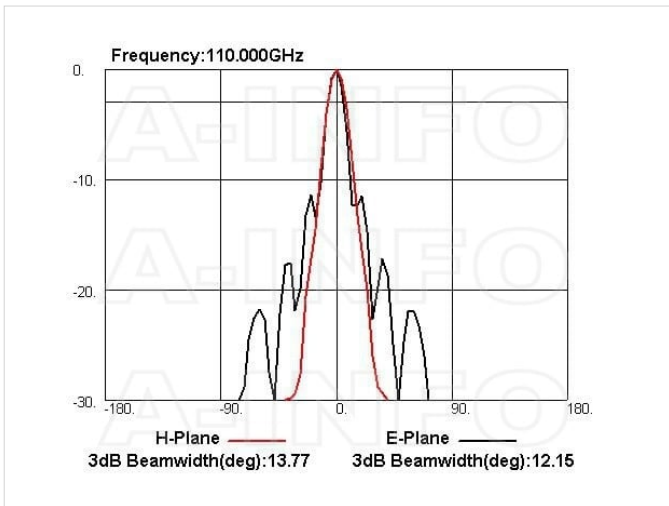












Related Products



LB-15-10-C-MB Round Type Mounting Bracket



LB-15-10-C-MBL L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



HSCS_4-40UNC_Pack Assembly Pack



1.0M-1.0M-C010-150 Flexible Cable Assembly 150mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-200 Flexible Cable Assembly 200mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-300 Flexible Cable Assembly 300mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-500 Flexible Cable Assembly 500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-1000 Flexible Cable Assembly 1000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-1500 Flexible Cable Assembly 1500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-2000 Flexible Cable Assembly 2000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-3000 Flexible Cable Assembly 3000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-5000 Flexible Cable Assembly 5000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-10000 Flexible Cable Assembly 10000mm DC-110GHz 1.0mm Male to 1.0mm Male

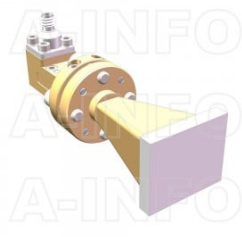
Similar Products



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



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About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-10-20-c-1-0f-standard-gain-horn-antenna-75-110-ghz-20db-gain-1-0mm-female 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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