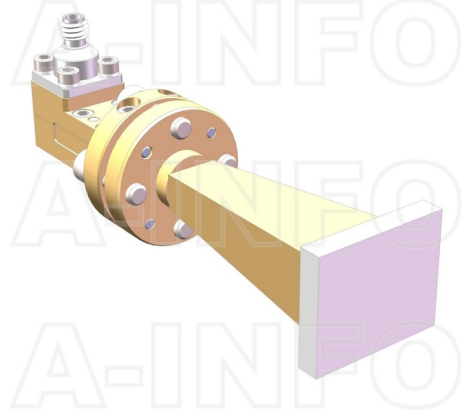


LB-15-15-C-1.0FSPO Standard Gain Horn Antenna 50-75GHz 15dB Gain
1.0mm Female



Standard Gain Horn Antenna Operating From 50GHz to 75GHz With a
Nominal 15dB Gain With 1.0mm Female Connector

Product Information

SKU	LB-15-15-C-1.0FSPO
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Description

Standard Gain Horn Antenna LB-15-15-C-1.0FSPO, operating from 50 to 75GHz with a nominal 15dB gain and low VSWR 2:1 with 1.0mm Female connector output. The model LB-15-15-C-1.0FSPO 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 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

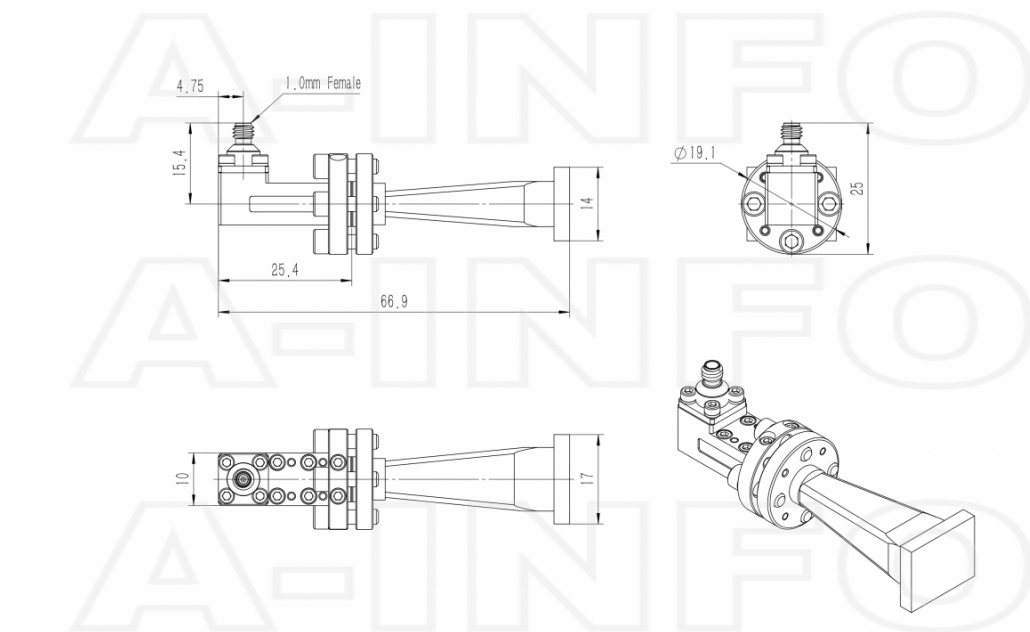
Electrical Specification		Interface	
Frequency, Min (GHz)	50	Output Type	Coaxial
Frequency, Max (GHz)	75	Connector	1.0mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR15	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	30	Finish	Gold Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Size, W (mm)	19.1
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	25
VSWR, Typ	2:1	Size, L (mm)	66.9
Impedance, (Ohm)	50	Weight, (kg)	0.05
Power Handling, CW, (W)	3		
Power Handling, Peak, (W)	5		

Additional Information

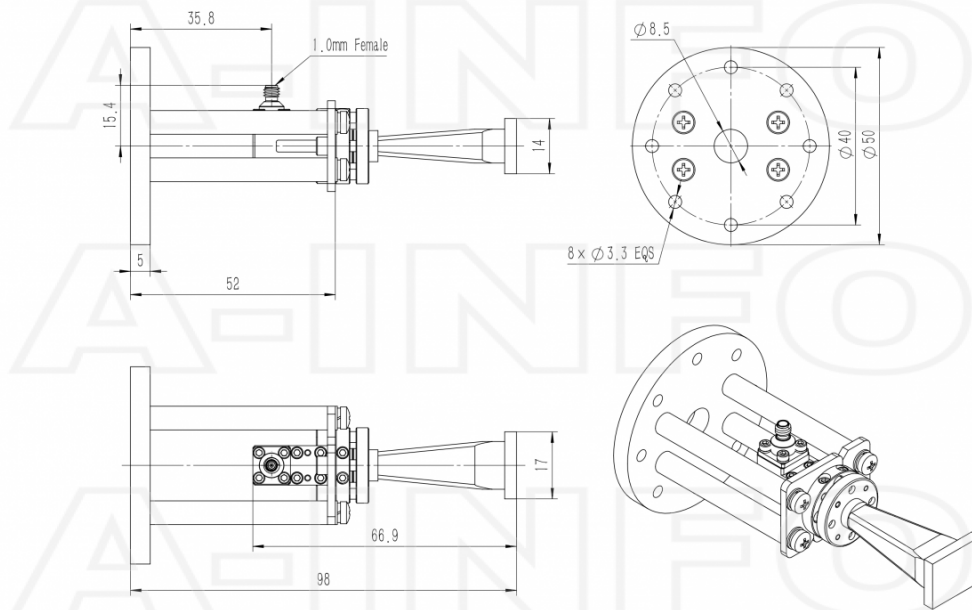
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

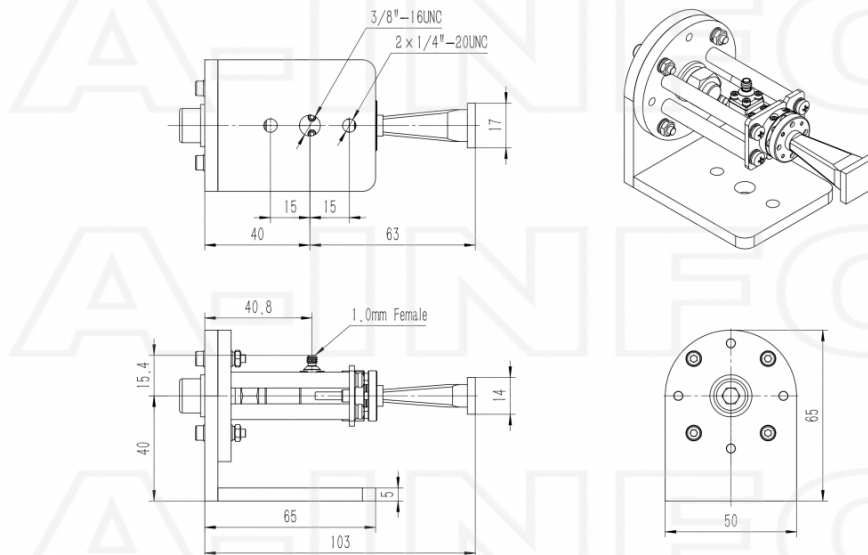
1.0mm-Female Output with Radome (Option, P/N: LB-15-15-C-1.0FSPO, Outdoor Application)



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

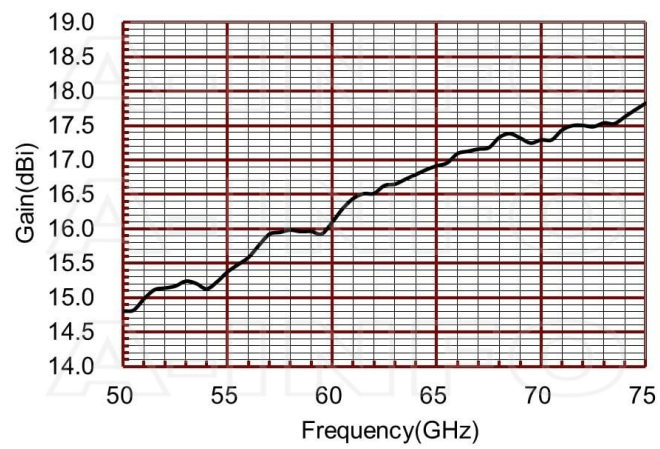


1.0mm-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-15-10-C-MBL & LB-15-15-C-1.0FSPO, Outdoor Application)

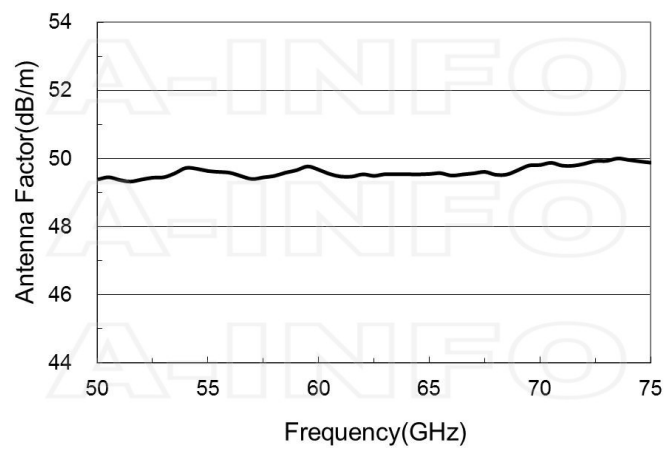


Typical Test Results

Gain



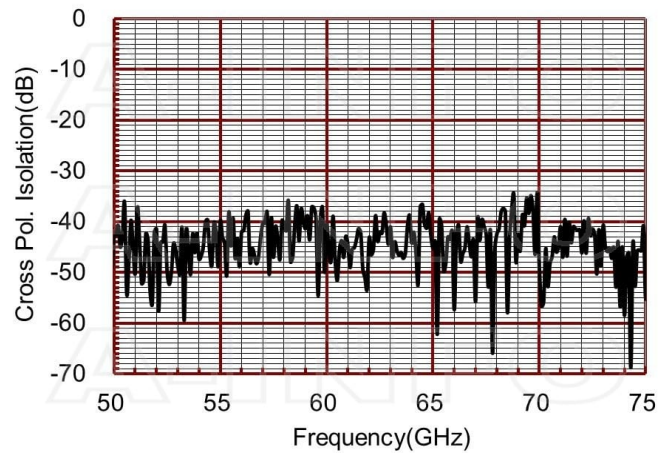
Antenna Factor



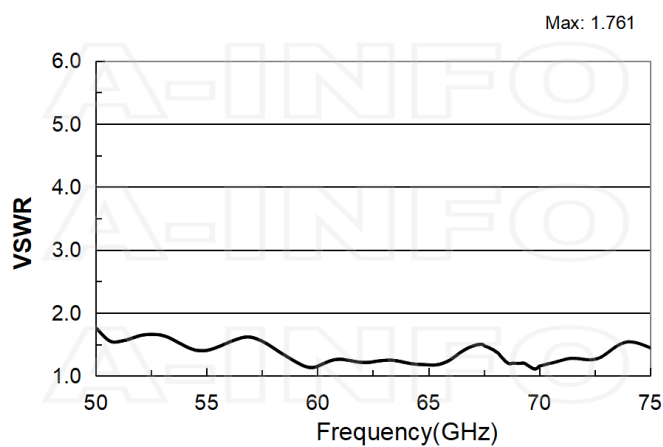
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
50	14.80	49.39
52	15.14	49.39
54	15.13	49.73
56	15.59	49.59
58	15.98	49.50
60	16.10	49.68
62	16.51	49.54
64	16.79	49.54
66	17.10	49.51
68	17.33	49.53
70	17.29	49.82
72	17.50	49.85
74	17.63	49.96
75	17.83	49.88

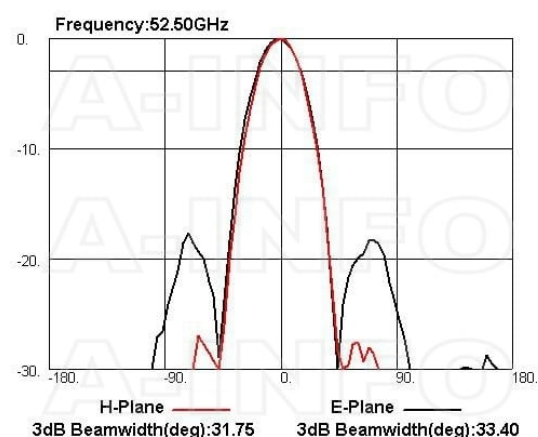
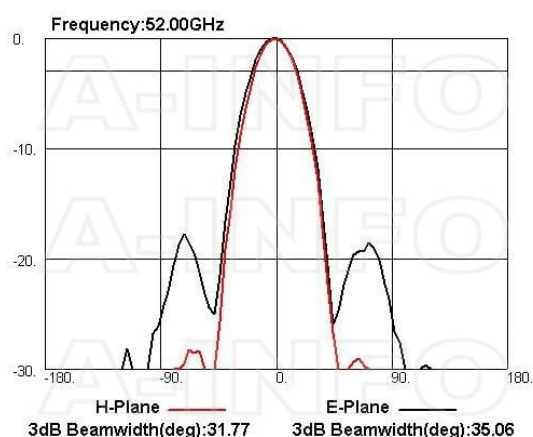
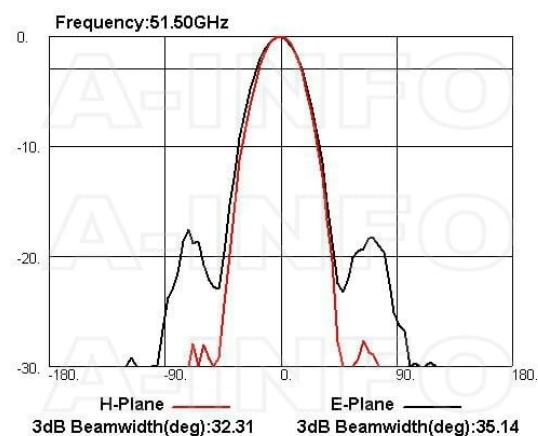
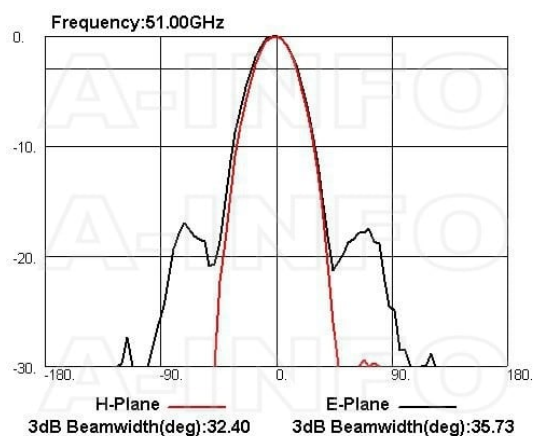
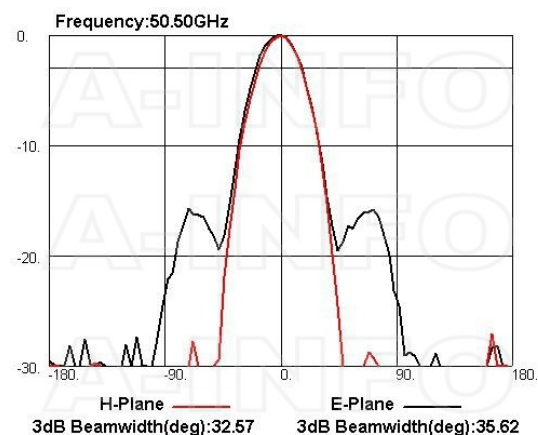
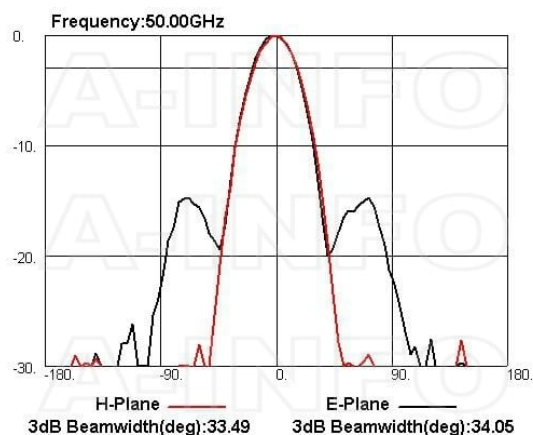
Cross Polarization Isolation

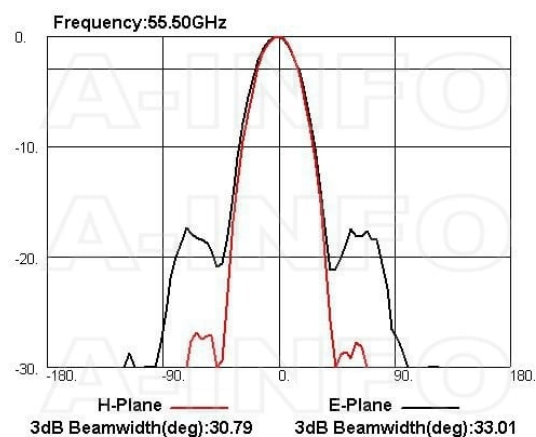
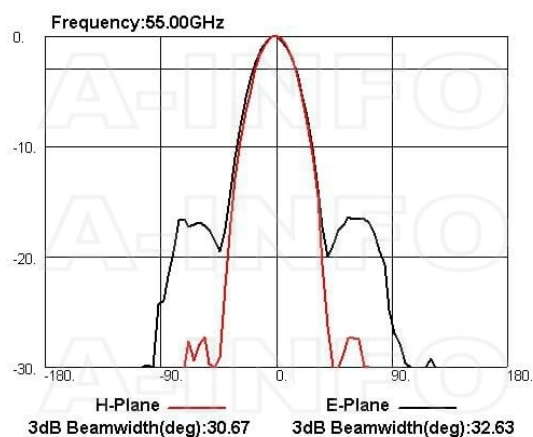
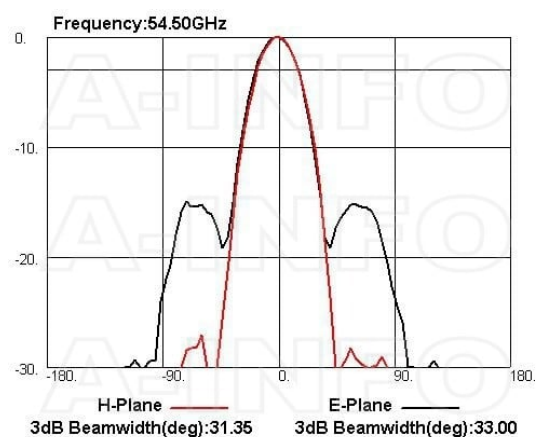
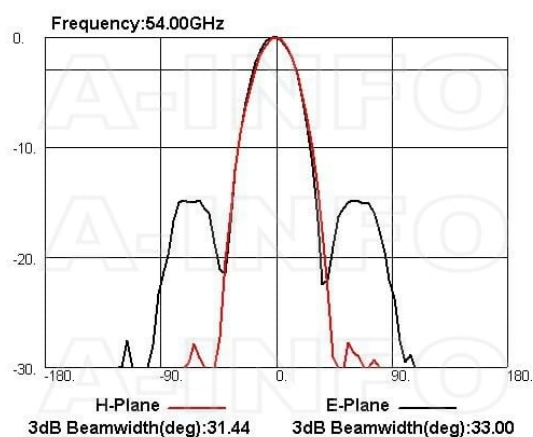
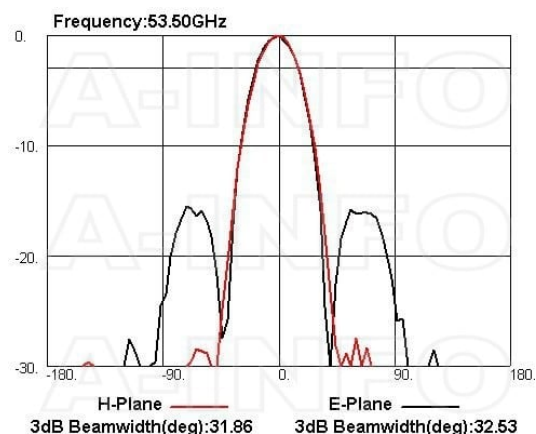
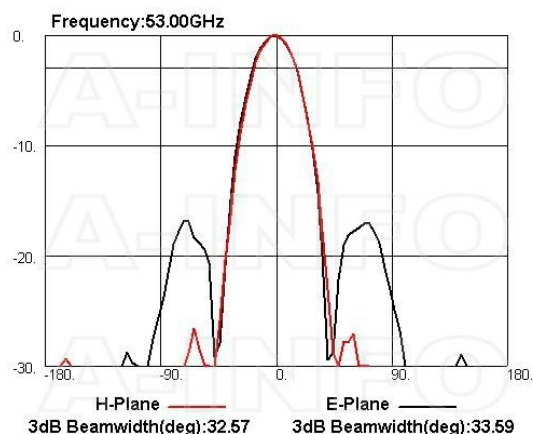


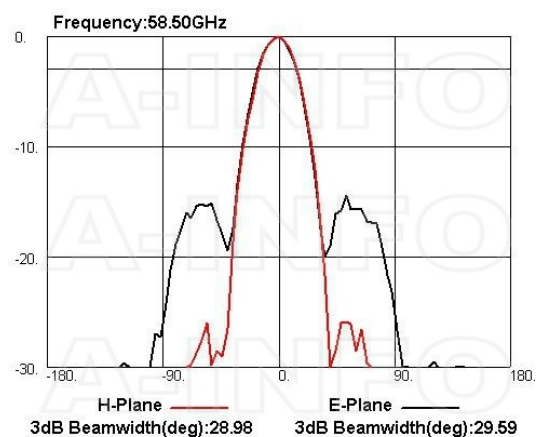
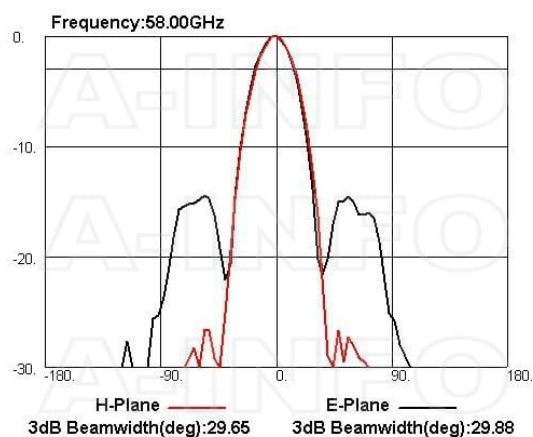
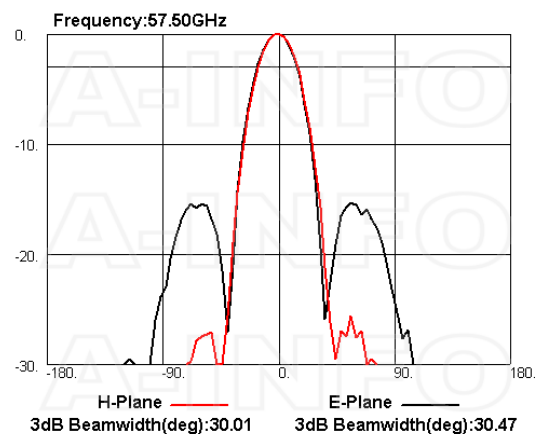
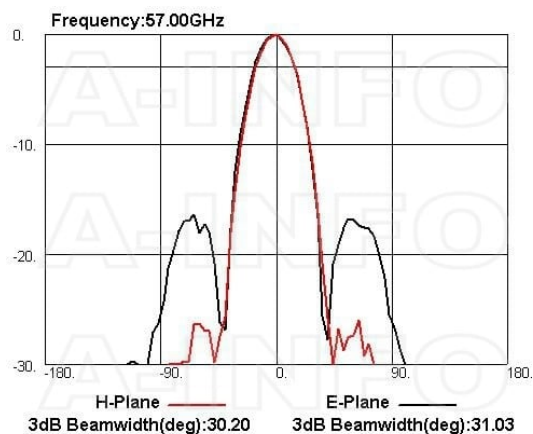
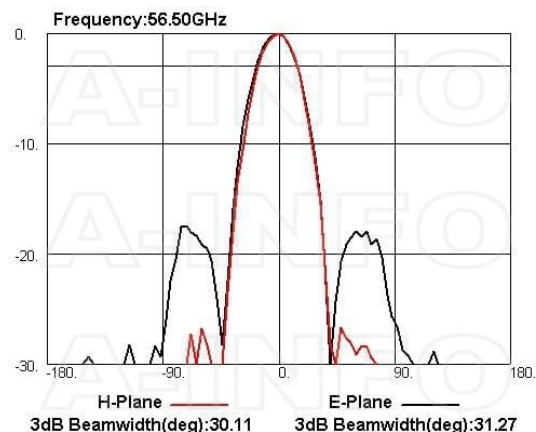
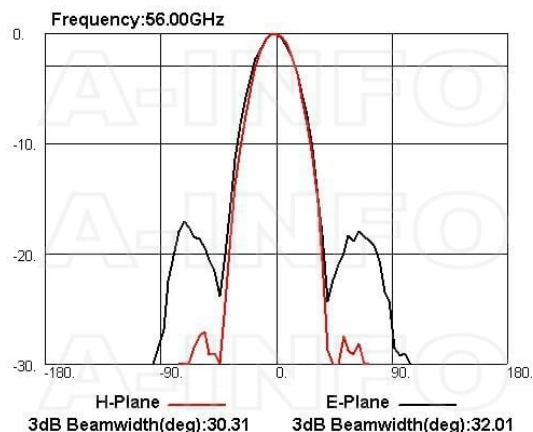
VSWR

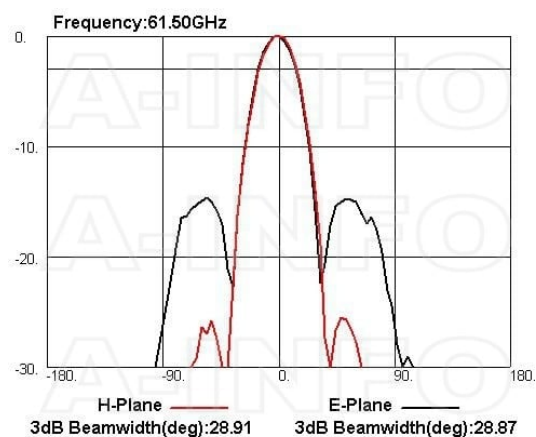
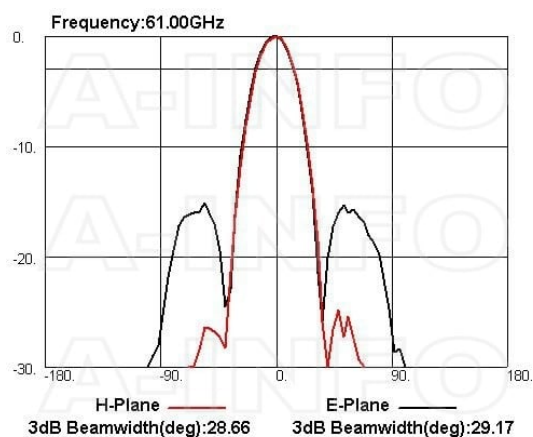
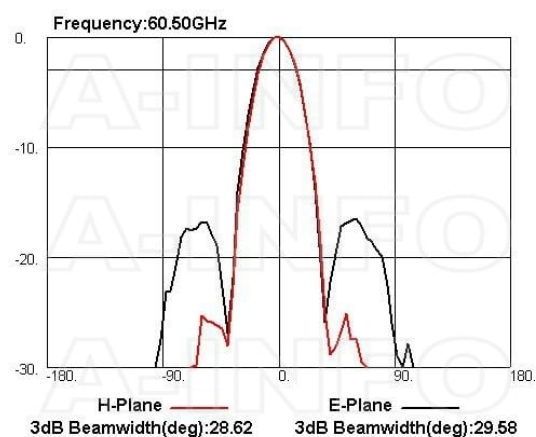
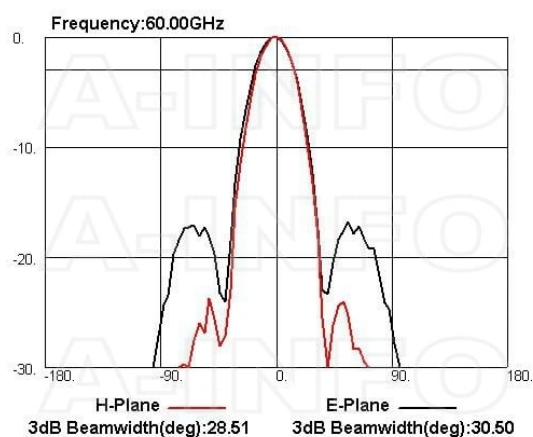
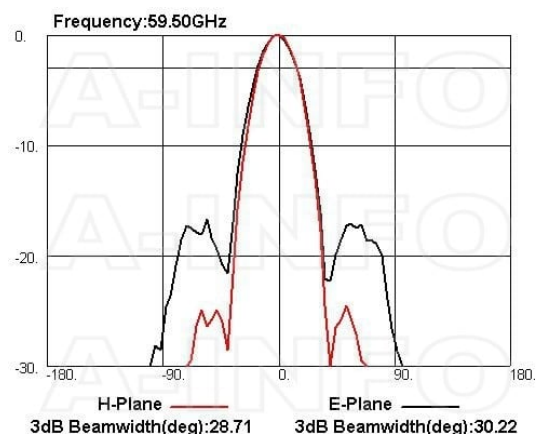
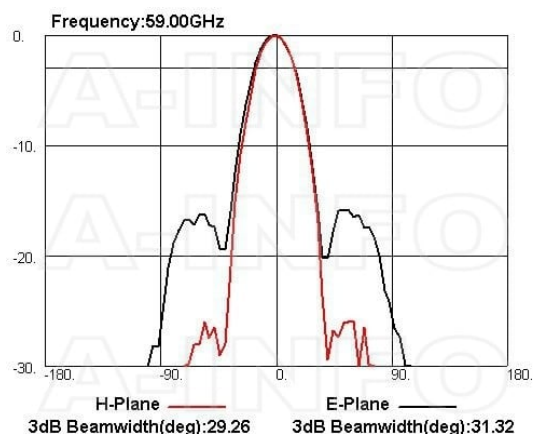


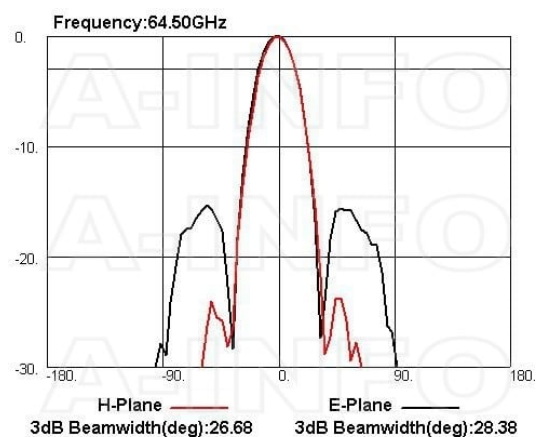
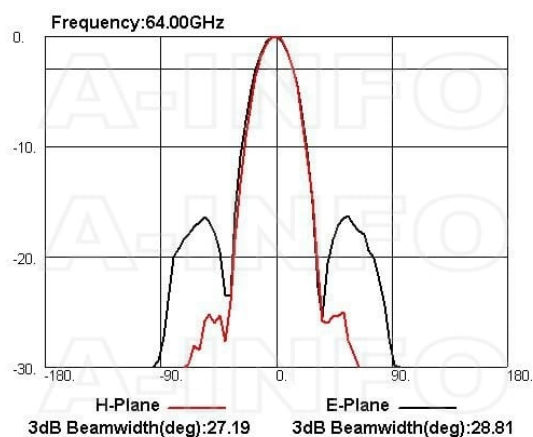
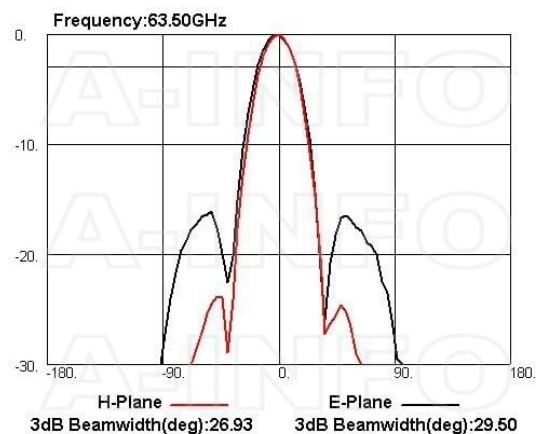
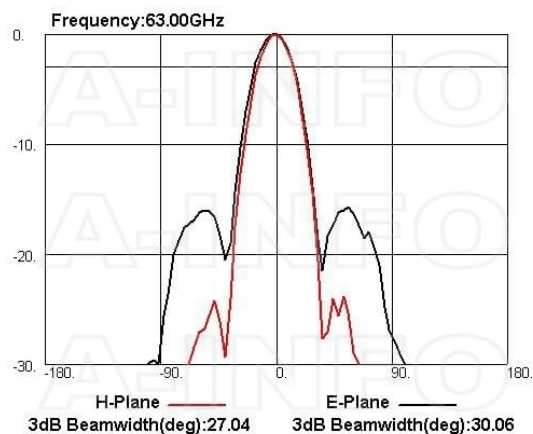
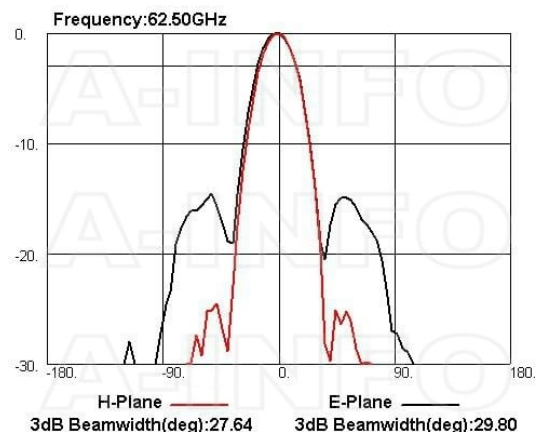
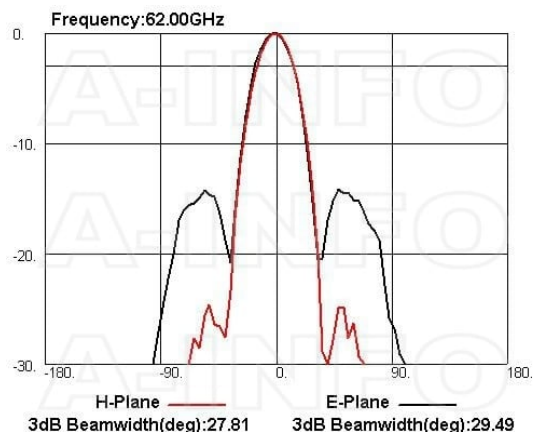
Pattern

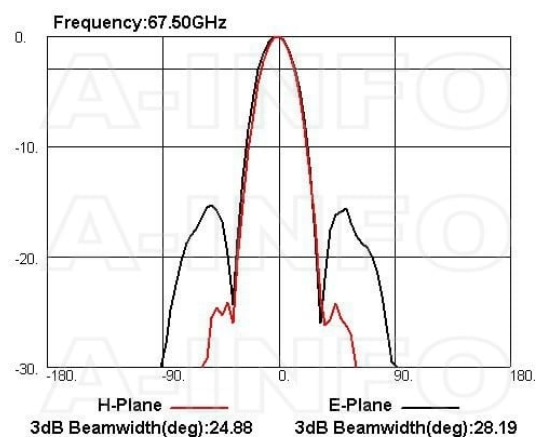
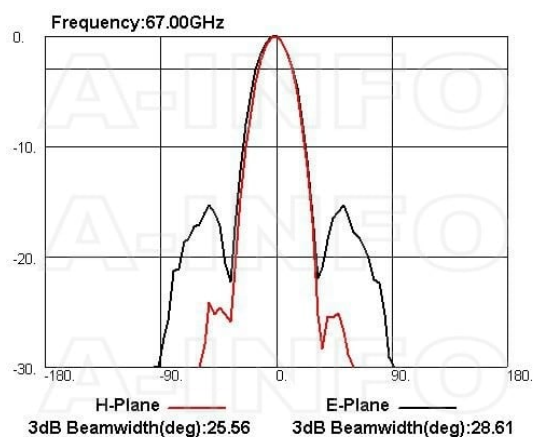
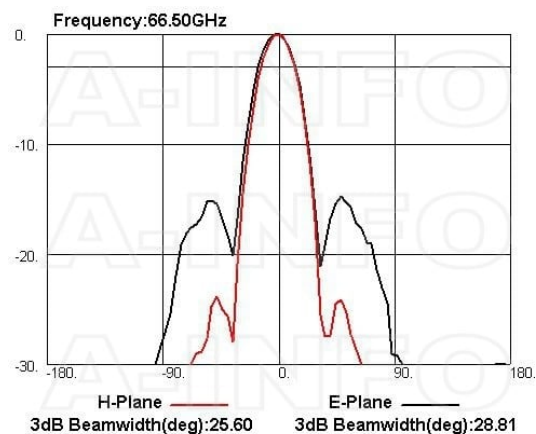
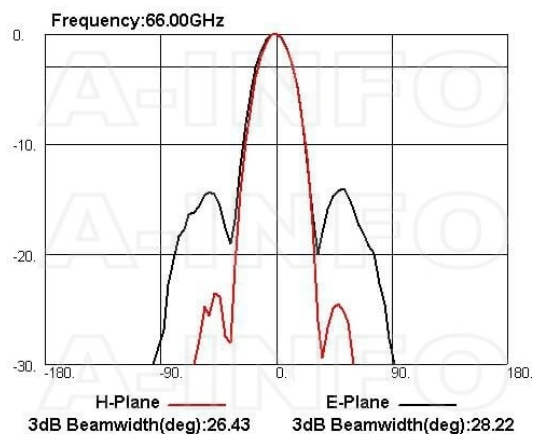
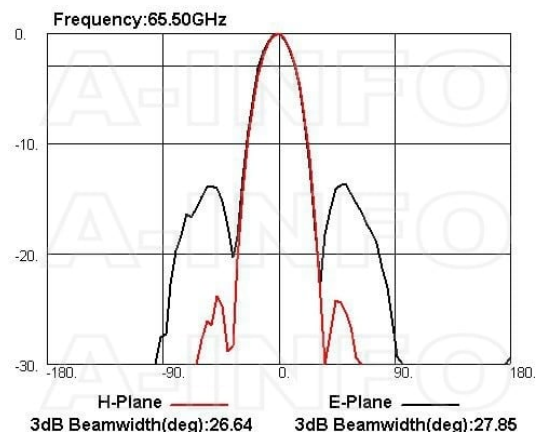
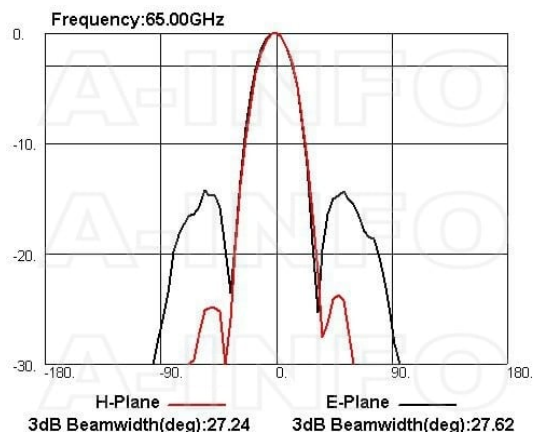


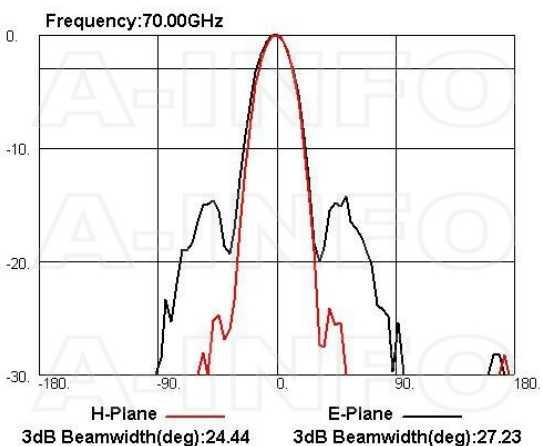
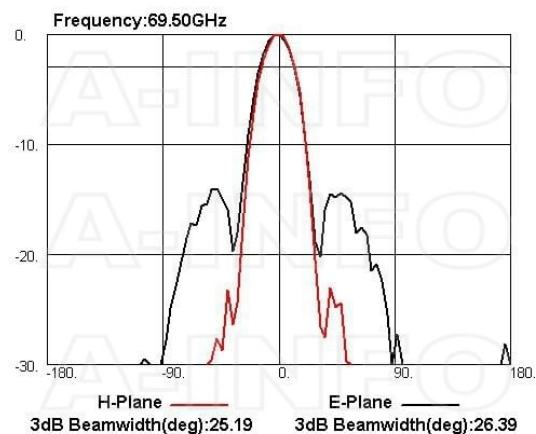
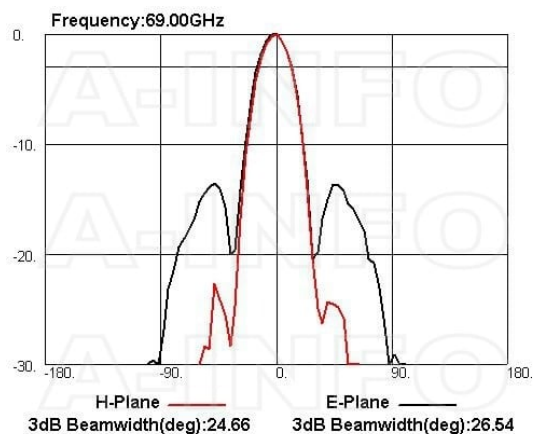
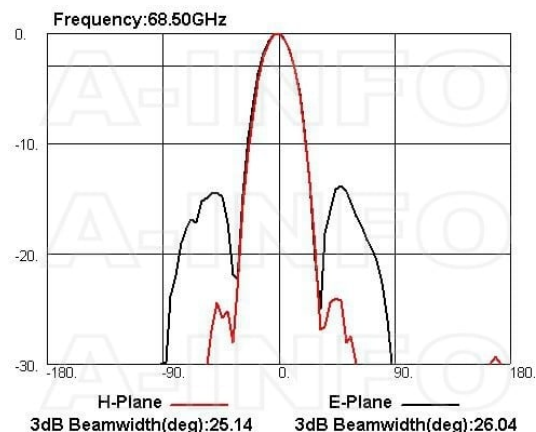
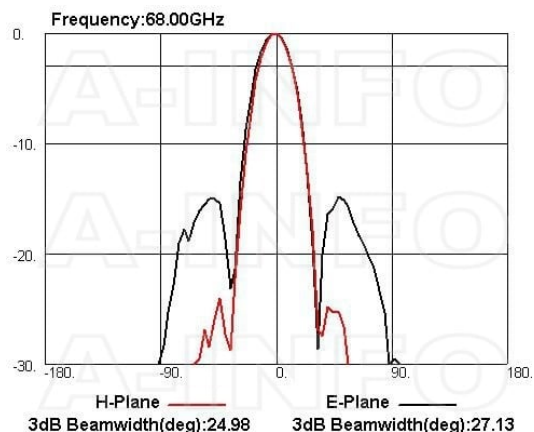












Related Products



HSCS_4-40UNC_Pack Assembly
Pack

Similar Products



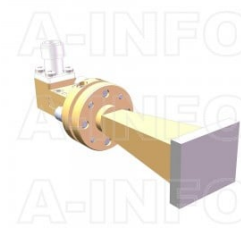
LB-15-15-A Standard Gain Horn
Antenna 50-75GHz 15dB Gain
Rectangular Waveguide Interface



LB-15-15-ASPO Standard Gain
Horn Antenna 50-75GHz 15dB
Gain Rectangular Waveguide
Interface



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



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



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

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-15-15-c-1-0fspo-standard-gain-horn-antenna-50-75-ghz-15db-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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