

LB-60670-1.85F Broadband Horn Antenna 6-67GHz 13dB Gain 1.85mm Female



Broadband Horn Antenna Operating From 6GHz to 67GHz With a Nominal 13dB Gain With 1.85mm Female Connector

Product Information

SKU	LB-60670-1.85F	Patents	US D972538 (USA) ZL201910131974.6(China) ZL201920223313.1 (China)
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Description

Broadband horn antenna LB-60670-1.85F, operating from 6 to 67GHz with a nominal 13dB gain and low VSWR 1.5:1 with 1.85mm Female output connector. The model LB-60670-1.85F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 5W continuously and 10W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This broadband horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Also we provide specific gain horn antennas according to customers' requirement.

Technical Specification

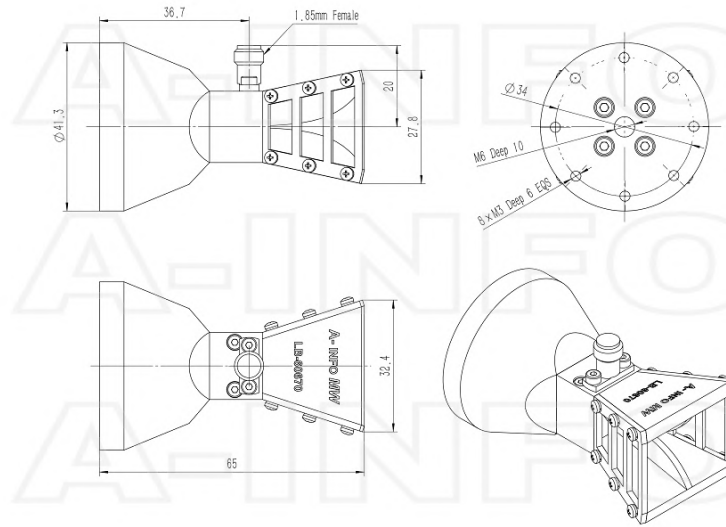
Electrical Specification		Interface	
Frequency, Min (GHz)	6	Output Type	Coaxial
Frequency, Max (GHz)	67	Connector	1.85mm(V)
Gain, Typ (dBi)	13	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	10	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	105	Finish	Chemical Conversion Coating
3dB Beamwidth, H-Plane, Min (Deg.)	9	Size, W (mm)	41.3
3dB Beamwidth, H-Plane, Max (Deg.)	86	Size, H (mm)	41.3
Cross Pol. Isolation, Typ (dB)	30	Size, L (mm)	65
VSWR, Typ	1.5:1	Weight, (kg)	0.1
Impedance, (Ohm)	50		
Power Handling, CW, (W)	5		
Power Handling, Peak, (W)	10		

Additional Information

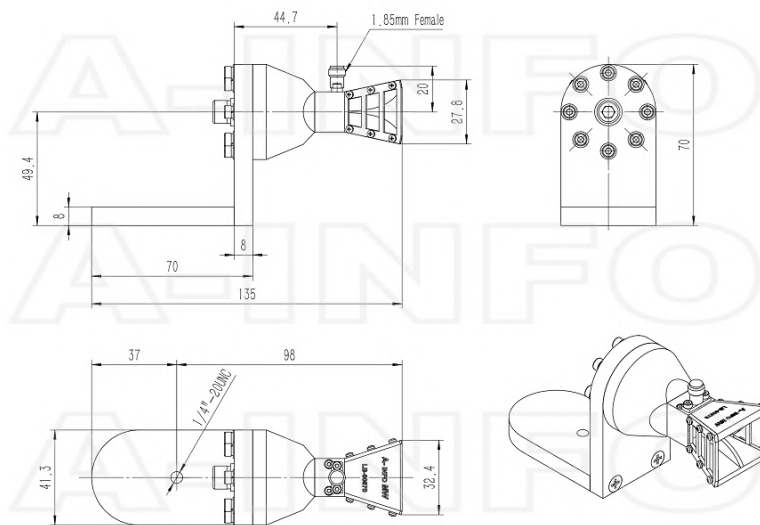
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
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Outline Drawing

1.85mm-Female Output (P/N: LB-60670-1.85F)

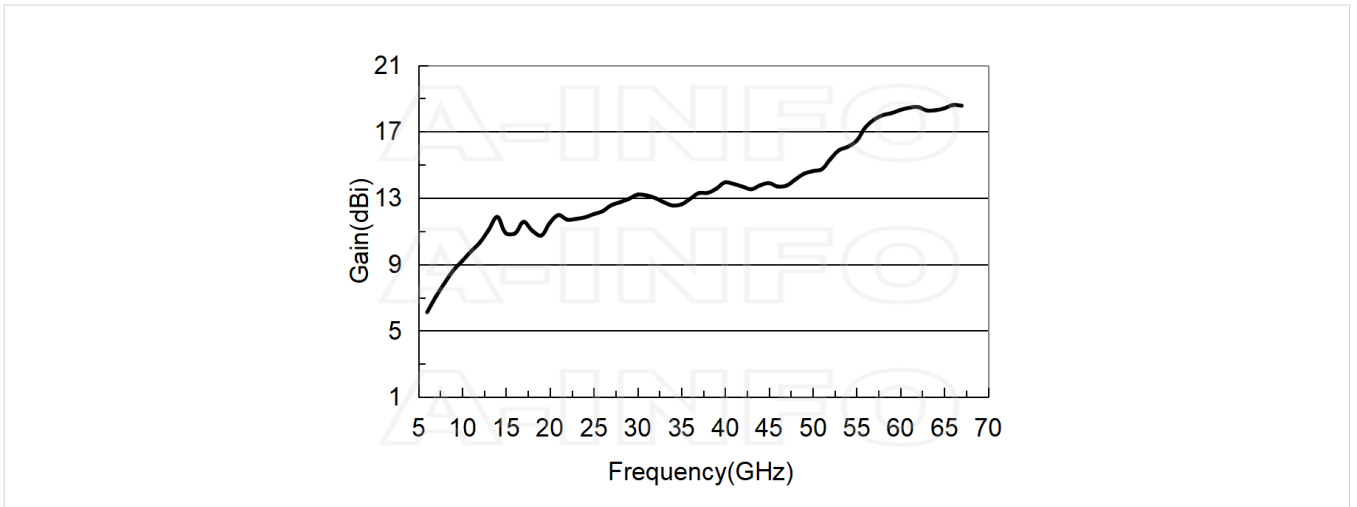


1.85mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-20180-L)

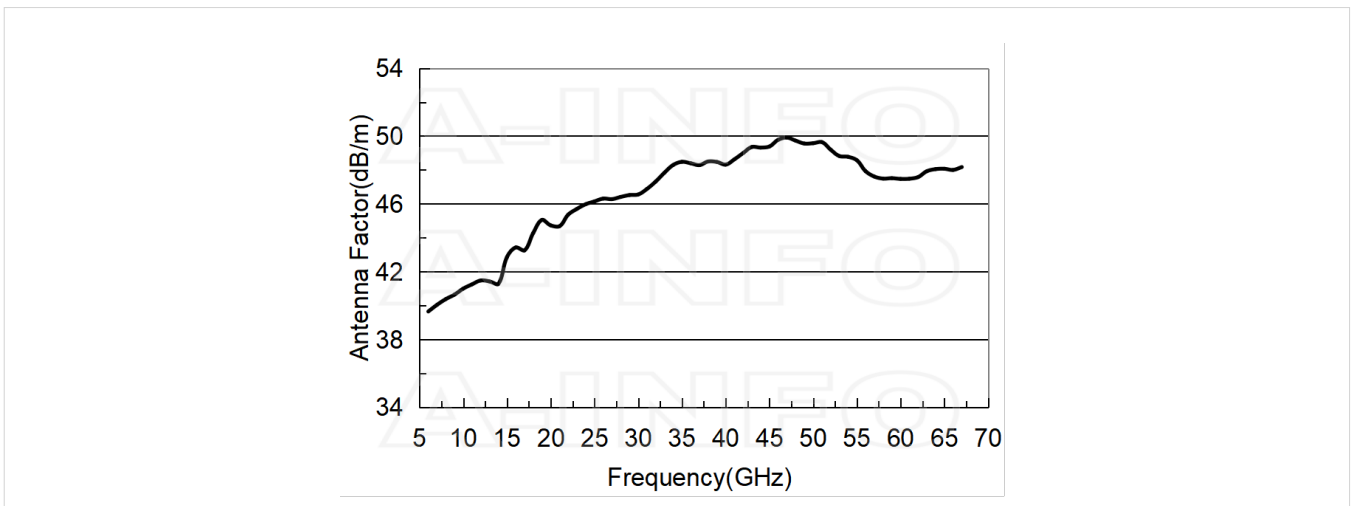


Typical Test Results

Gain



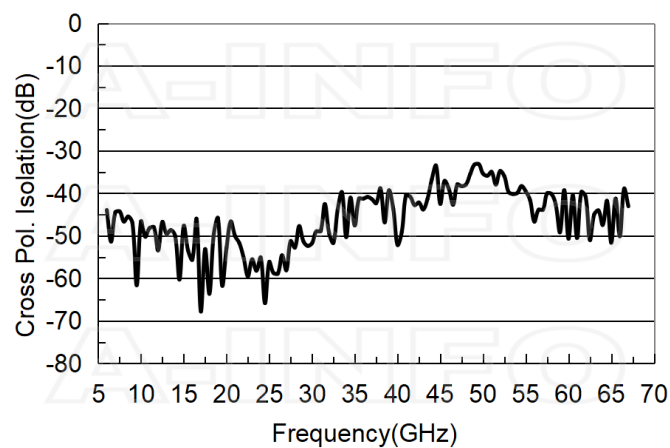
Antenna Factor



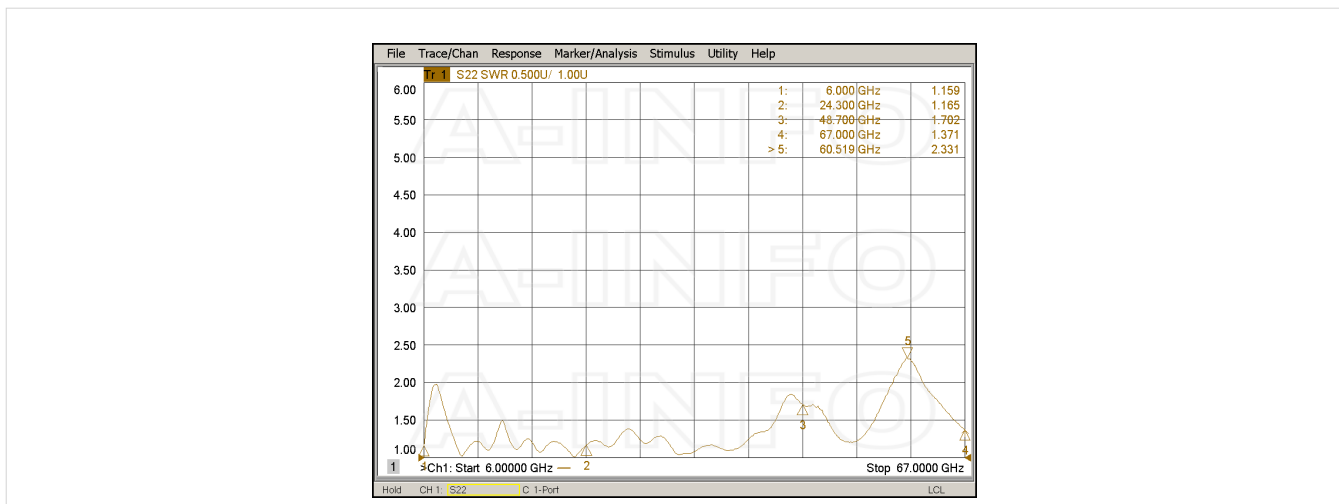
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
6.0	6.11	39.66
7.0	7.06	40.05
8.0	7.88	40.39
9.0	8.64	40.65
10.0	9.20	41.01
15.0	10.86	42.87
20.0	11.50	44.73
25.0	12.02	46.15
30.0	13.20	46.56
35.0	12.61	48.48
40.0	13.94	48.31
45.0	13.89	49.38
50.0	14.61	49.58
55.0	16.44	48.57
60.0	18.30	47.47
65.0	18.40	48.07
67.0	18.56	48.17

Cross Polarization Isolation

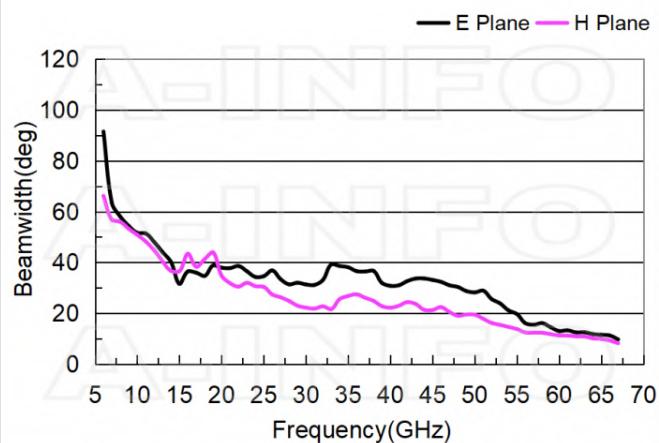


VSWR

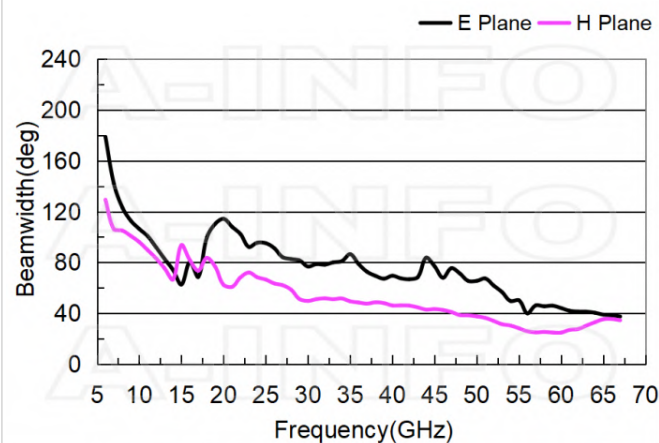


Beamwidth

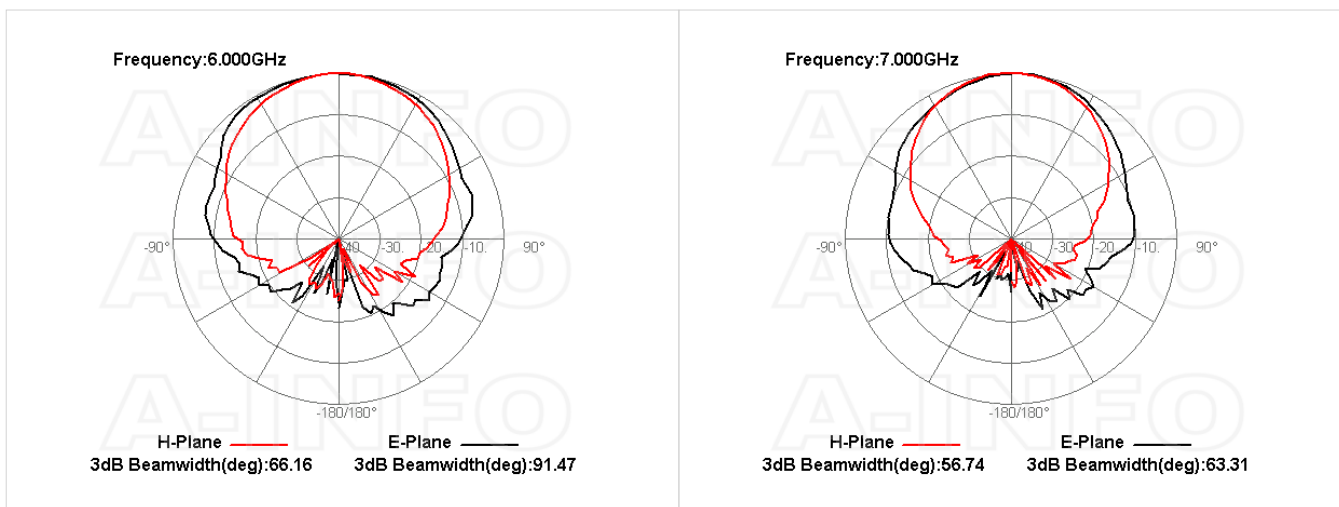
3dB Beamwidth



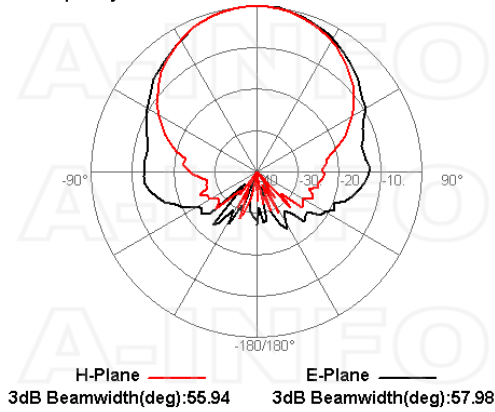
10dB Beamwidth



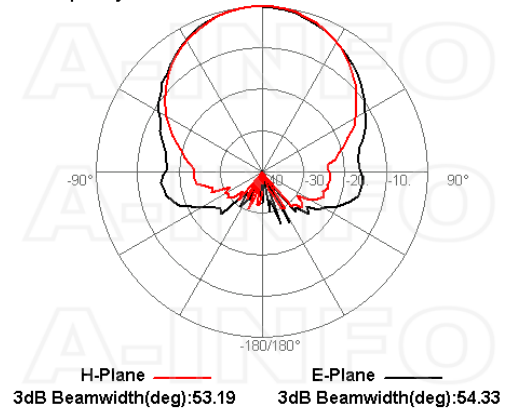
Pattern



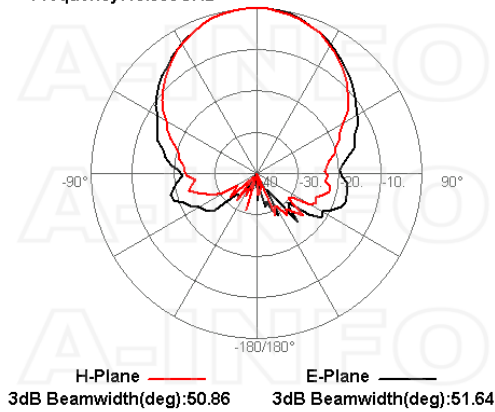
Frequency:8.000GHz



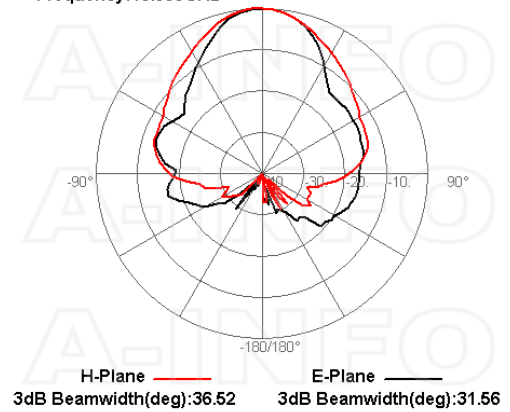
Frequency:9.000GHz



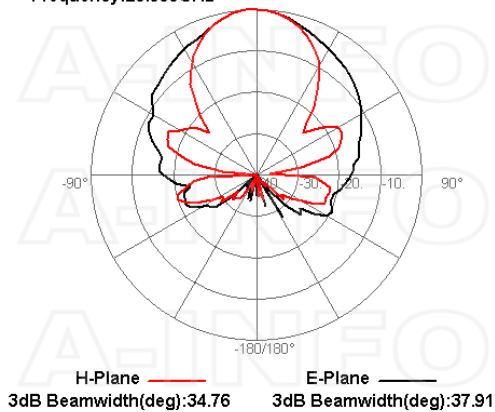
Frequency:10.000GHz



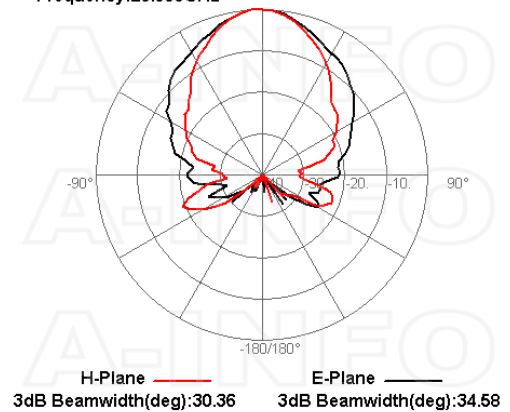
Frequency:15.000GHz



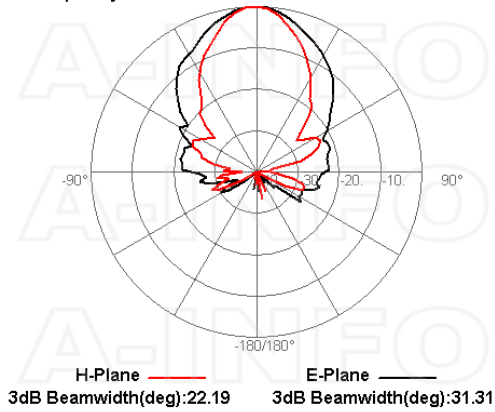
Frequency:20.000GHz



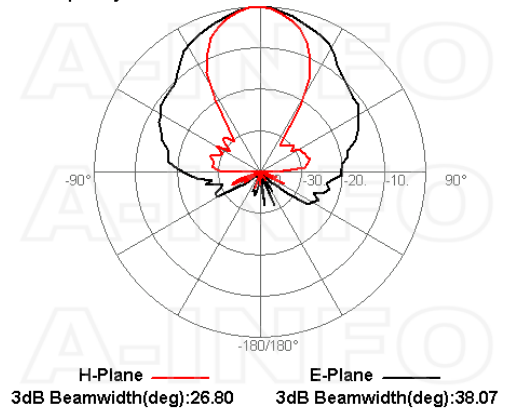
Frequency:25.000GHz



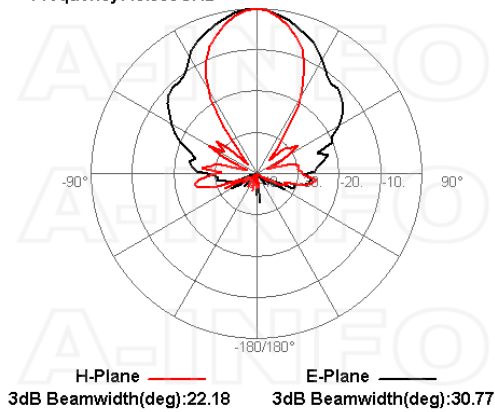
Frequency:30.000GHz



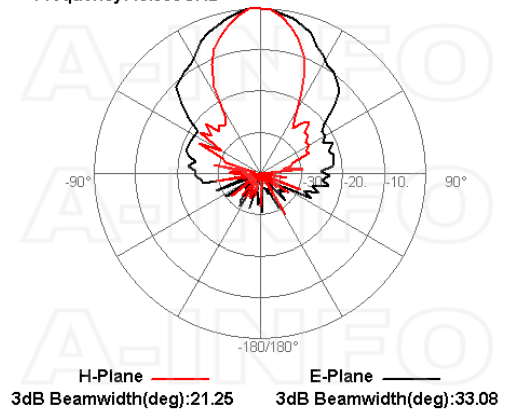
Frequency:35.000GHz



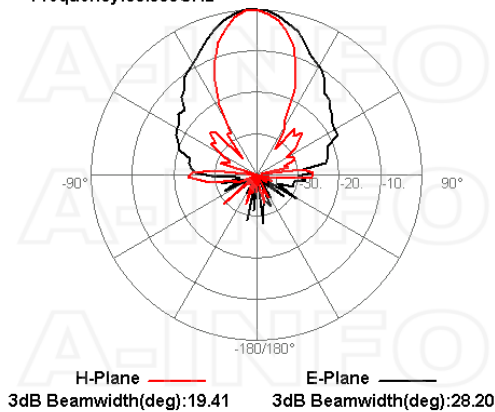
Frequency:40.000GHz



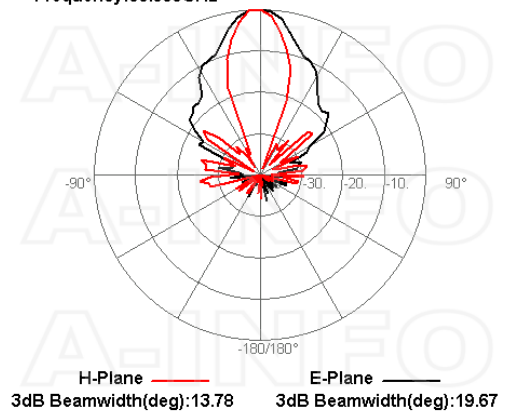
Frequency:45.000GHz

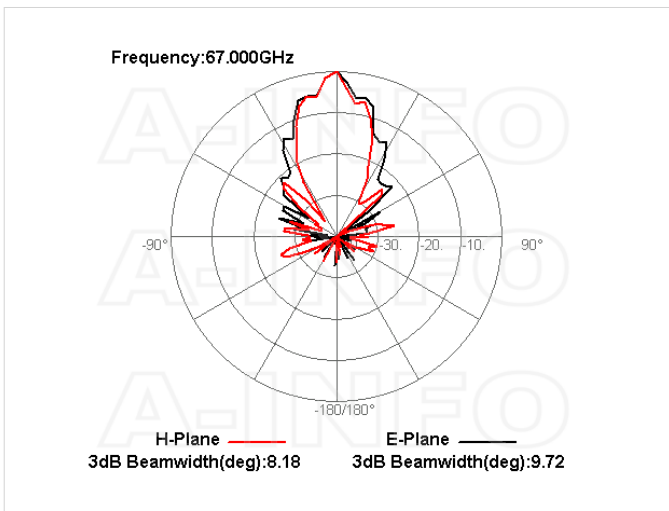
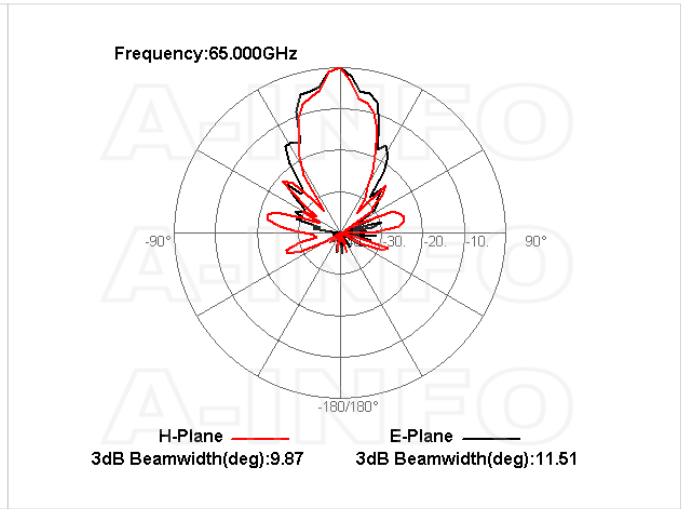
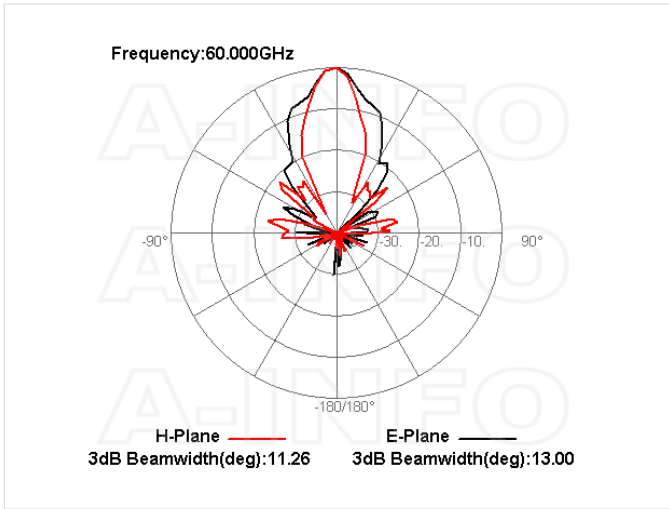


Frequency:50.000GHz



Frequency:55.000GHz





Related Products



LB-20180-L L Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



1.85M-1.85M-B010-200 Flexible Cable Assembly 200mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-300 Flexible Cable Assembly 300mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-500 Flexible Cable Assembly 500mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-1000 Flexible Cable Assembly 1000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-1500 Flexible Cable Assembly 1500mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-2000 Flexible Cable Assembly 2000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-3000 Flexible Cable Assembly 3000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-5000 Flexible Cable Assembly 5000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010-10000 Flexible Cable Assembly 10000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-500 Flexible Cable Assembly 500mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-1000 Flexible Cable Assembly 1000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-1500 Flexible Cable Assembly 1500mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-2000 Flexible Cable Assembly 2000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-3000 Flexible Cable Assembly 3000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-5000 Flexible Cable Assembly 5000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85M-B010S-10000 Flexible Cable Assembly 10000mm DC-67GHz 1.85mm Male to 1.85mm Male



1.85M-1.85F-B010-500 Flexible Cable Assembly 500mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-1000 Flexible Cable Assembly 1000mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-1500 Flexible Cable Assembly 1500mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-2000 Flexible Cable Assembly 2000mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-2500 Flexible Cable Assembly 2500mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-3000 Flexible Cable Assembly 3000mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010-5000 Flexible Cable Assembly 5000mm DC-67GHz 1.85mm Male to 1.85mm Female



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1.85M-1.85F-B010S-3000 Flexible Cable Assembly 3000mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010S-5000 Flexible Cable Assembly 5000mm DC-67GHz 1.85mm Male to 1.85mm Female



1.85M-1.85F-B010S-10000 Flexible Cable Assembly 10000mm DC-67GHz 1.85mm Male to 1.85mm Female

Similar Products



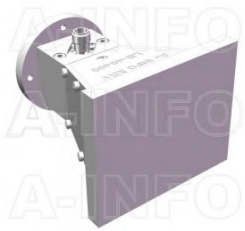
LB-40400-KF Broadband Horn Antenna 4-40GHz 13dB Gain 2.92mm Female



LB-40400-KFSPO Broadband Horn Antenna 4-40GHz 13dB Gain 2.92mm Female



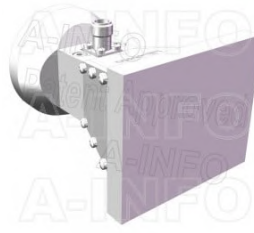
LB-40400-2.4F Broadband Horn Antenna 4-40GHz 13dB Gain 2.4mm Female



LB-40400-2.4FSPO Broadband Horn Antenna 4-40GHz 13dB Gain 2.4mm Female



LB-45500-2.4F Broadband Horn Antenna 4.5-50GHz 13dB Gain 2.4mm Female



LB-45500-2.4FSPO Broadband Horn Antenna 4.5-50GHz 13dB Gain 2.4mm Female



LB-60670-1.85FSPO Broadband Horn Antenna 6-67GHz 13dB Gain 1.85mm Female



LB-SJ-40400-KF Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-KFSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-2.4F Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-40400-2.4FSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-50500-2.4F Broadband Dual Polarization Horn Antenna 5-50GHz 12dB Gain 2.4mm Female



LB-SJ-50500-1.85F Broadband
Dual Polarization Horn Antenna
5-50GHz 12dB Gain 1.85mm
Female

About this Datasheet

<ul style="list-style-type: none"> • Product Information Product Link: https://www.ainfoinc.com/lb-60670-1-85f-broadband-horn-antenna-6-67-ghz-13db-gain-1-85mm-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved 	<ul style="list-style-type: none"> • Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com 	<ul style="list-style-type: none"> • Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
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