



LB-180550L-1.85F Broadband Horn Antenna 18-55GHz 10dB Gain
1.85mm Female

Broadband Horn Antenna Operating From 18GHz to 55GHz With a
Nominal 10dB Gain With 1.85mm Female Connector

Product Information

SKU	LB-180550L-1.85F
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Description

Broadband horn antenna LB-180550L-1.85F, operating from 18 to 55GHz with a nominal 10dB gain and low VSWR 1.5:1 with 1.85mm Female output connector. The model LB-180550L-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 high thermal and electrical conductivity durable copper, 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.

Technical Specification

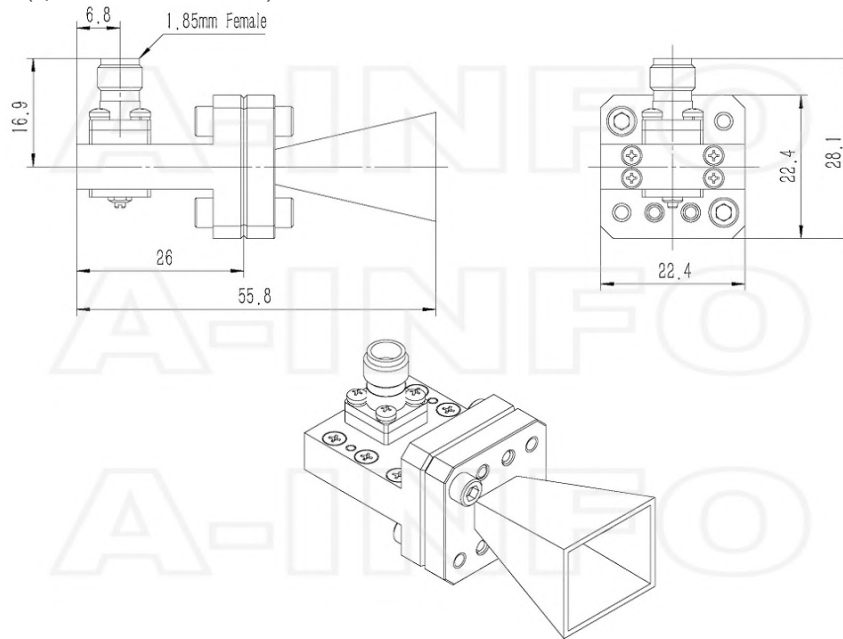
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	55	Connector	1.85mm(V)
Gain, Typ (dBi)	10	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	24	Body Material	Cu
3dB Beamwidth, E-Plane, Max (Deg.)	58	Finish	Gold Plated, Gray Paint
3dB Beamwidth, H-Plane, Min (Deg.)	21	Size, W (mm)	22.4
3dB Beamwidth, H-Plane, Max (Deg.)	60	Size, H (mm)	28.1
Cross Pol. Isolation, Typ (dB)	40	Size, L (mm)	55.8
VSWR, Typ	1.5:1	Weight, (kg)	0.08
Impedance, (Ohm)	50		
Power Handling, CW, (W)	5		
Power Handling, Peak, (W)	10		

Additional Information

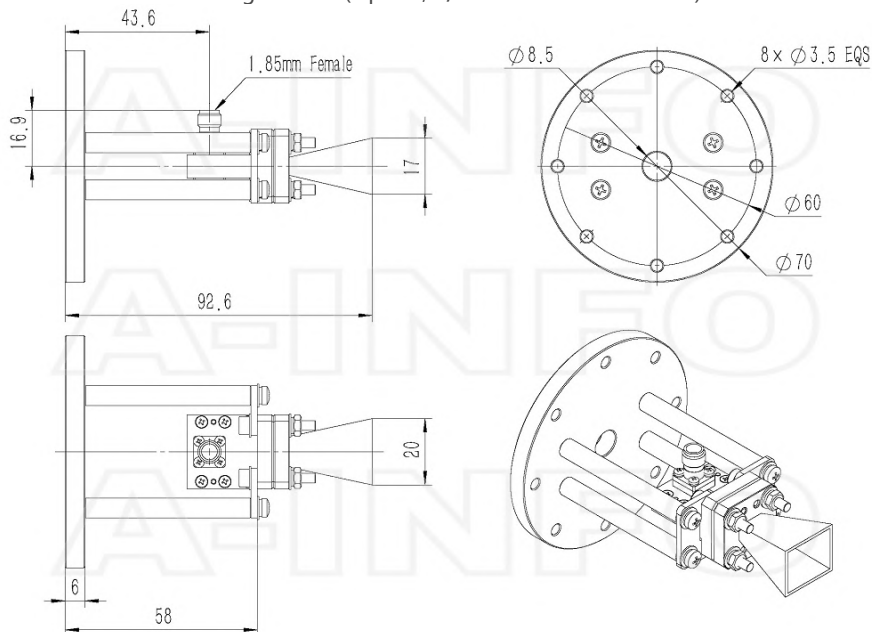
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
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Outline Drawing

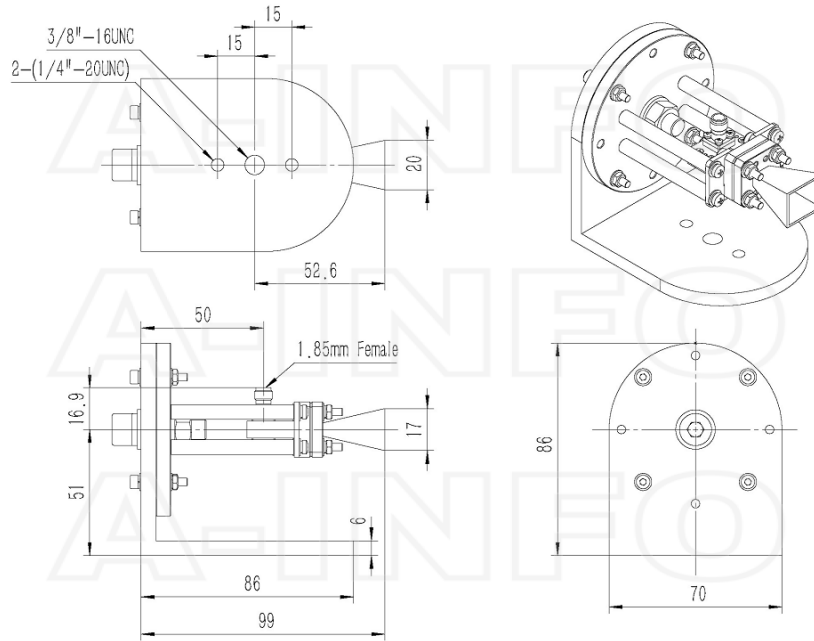
1.85mm-Female Output (P/N: LB-180550L-1.85F)



1.85mm-Female Output with Round Mounting Bracket (Option, P/N: LB-180400-10-C-MB)

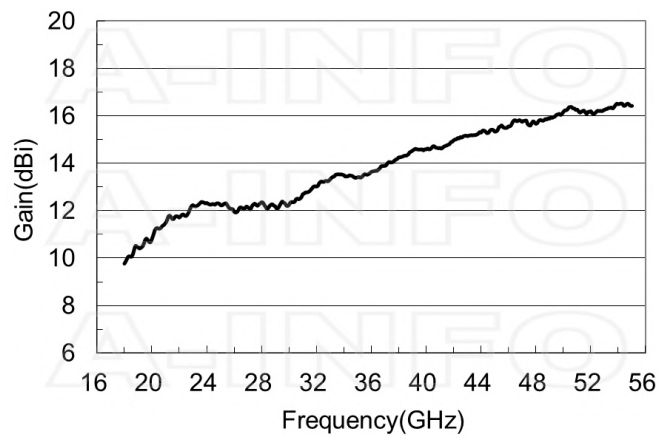


1.85mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-180400-10-C-MBL)

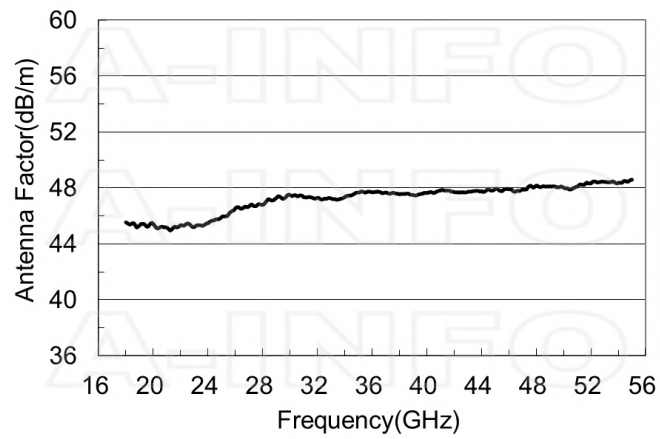


Typical Test Results

Gain



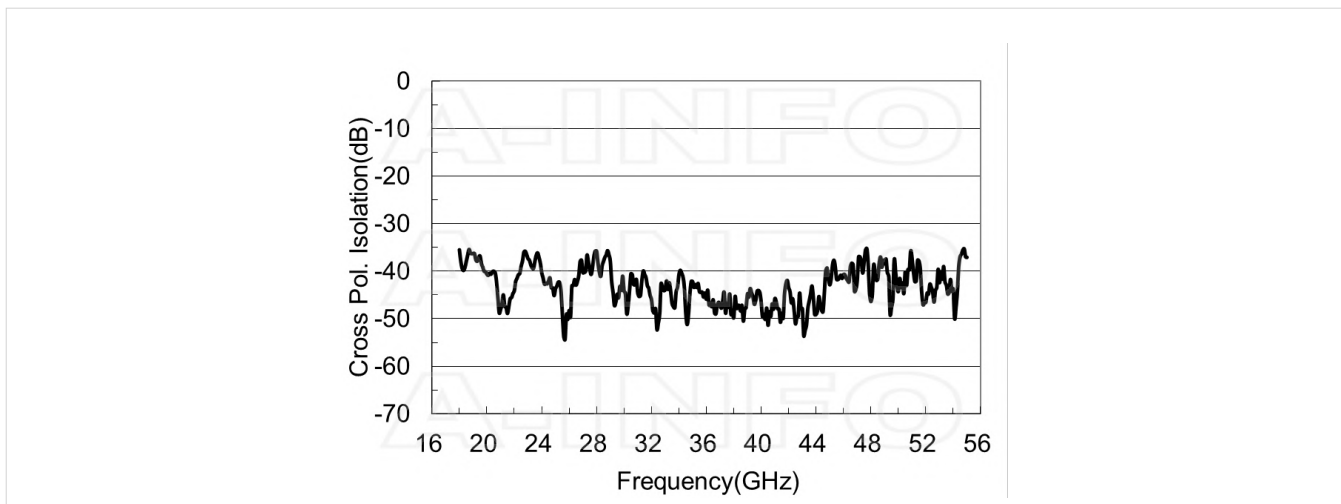
Antenna Factor



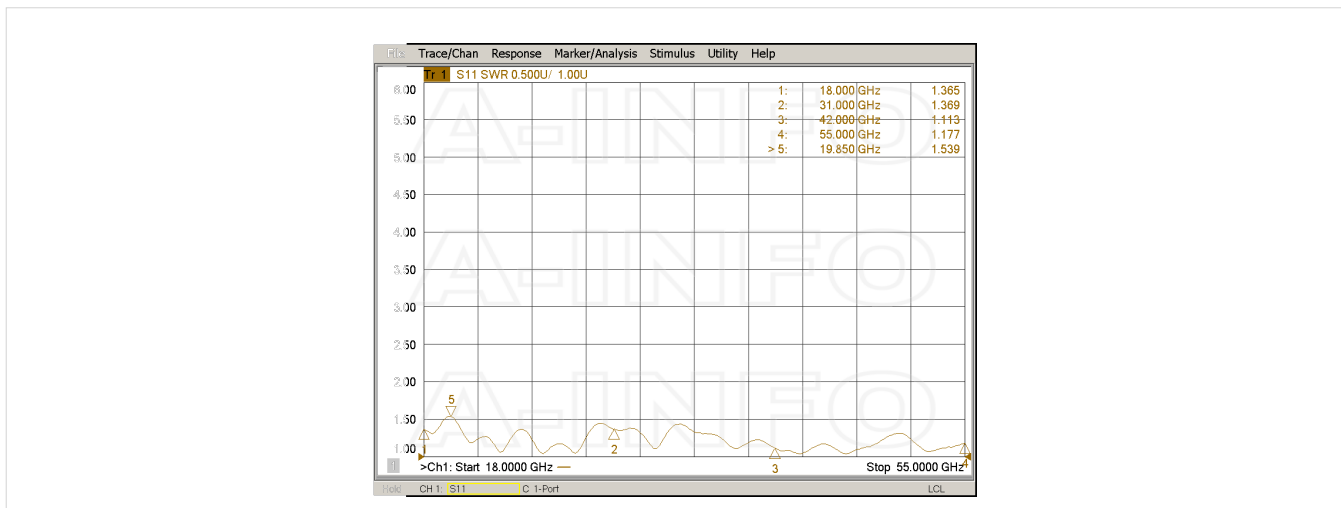
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	9.77	45.55
20.0	10.80	45.43
22.0	11.71	45.34
24.0	12.33	45.49
26.0	11.96	46.55
28.0	12.36	46.79
30.0	12.25	47.50
32.0	13.02	47.29
34.0	13.50	47.34
36.0	13.64	47.70
38.0	14.25	47.55
40.0	14.59	47.67
42.0	14.97	47.71
44.0	15.29	47.79
46.0	15.56	47.91
48.0	15.67	48.17
50.0	16.17	48.02
52.0	16.20	48.33
54.0	16.49	48.37
55.0	16.42	48.59

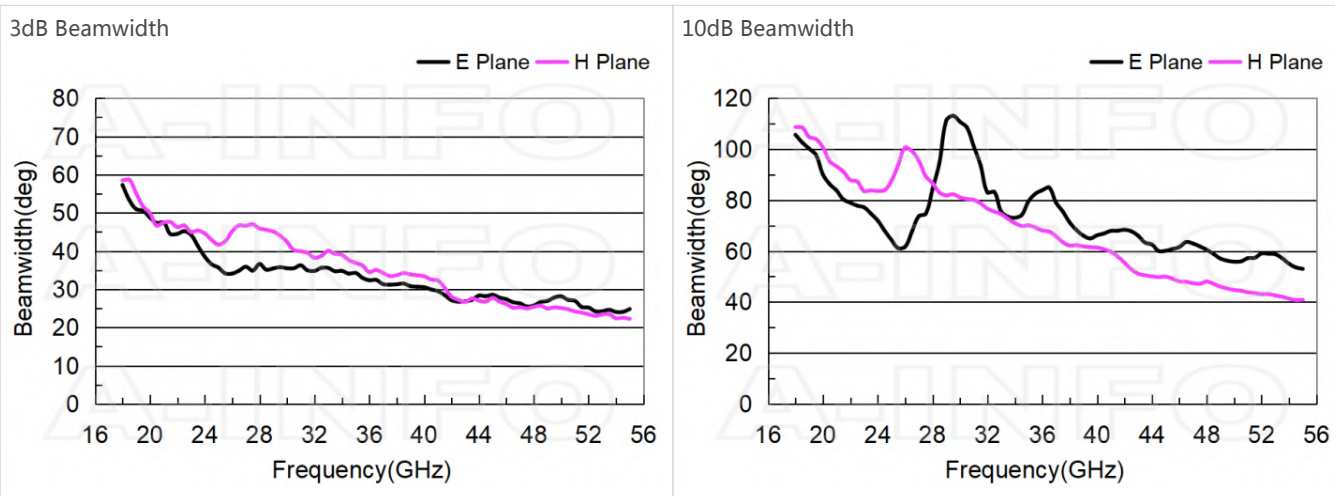
Cross Polarization Isolation



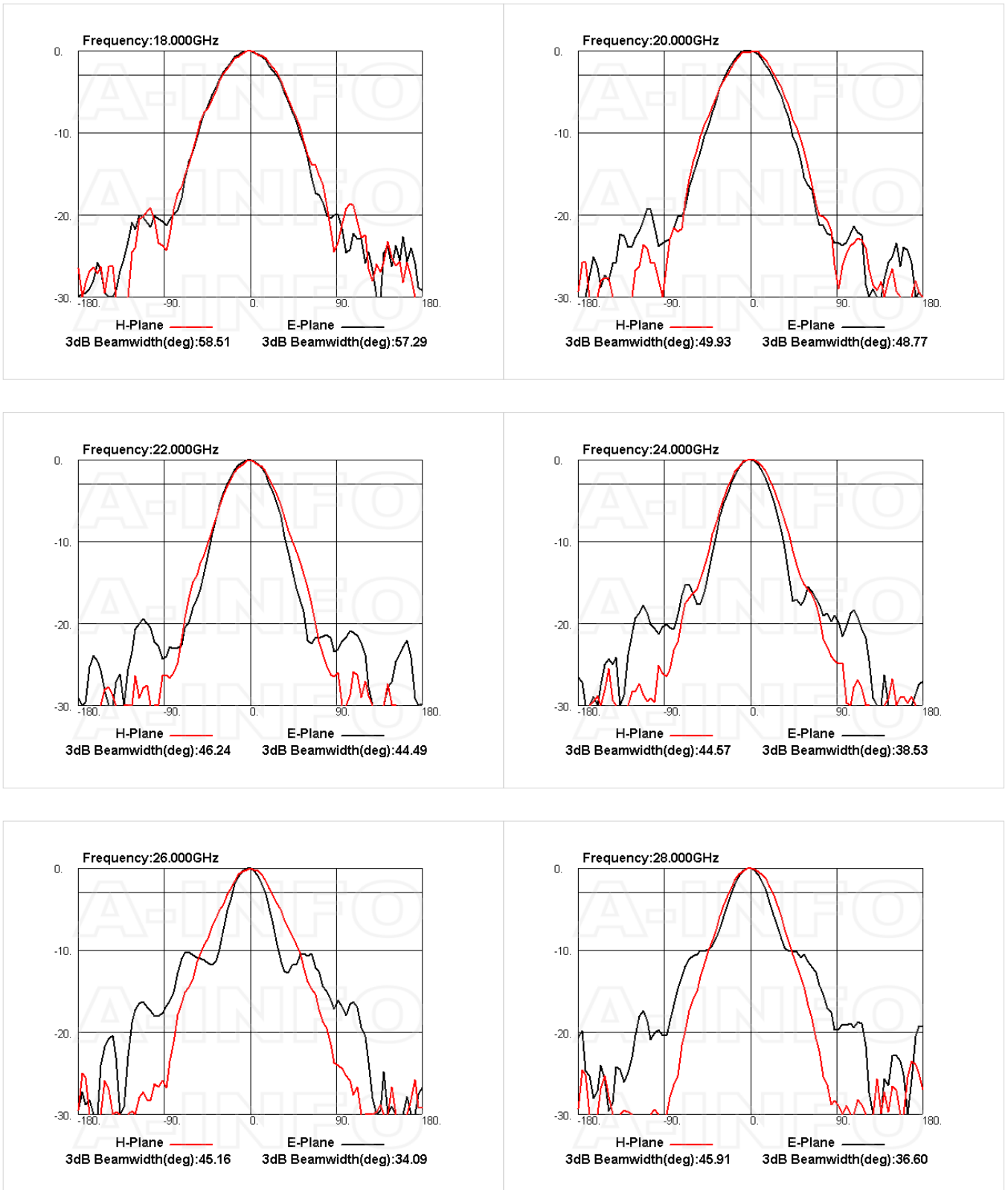
VSWR

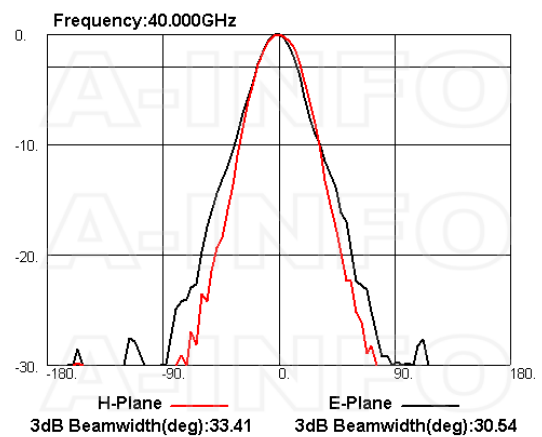
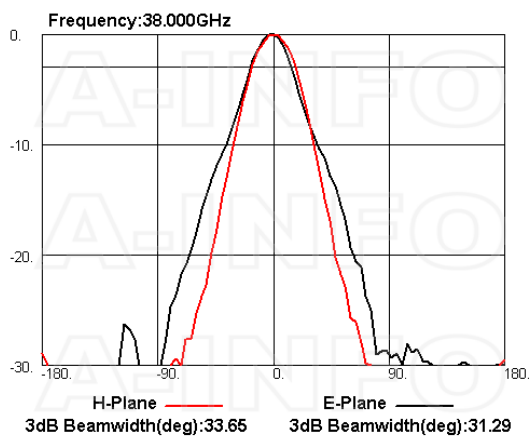
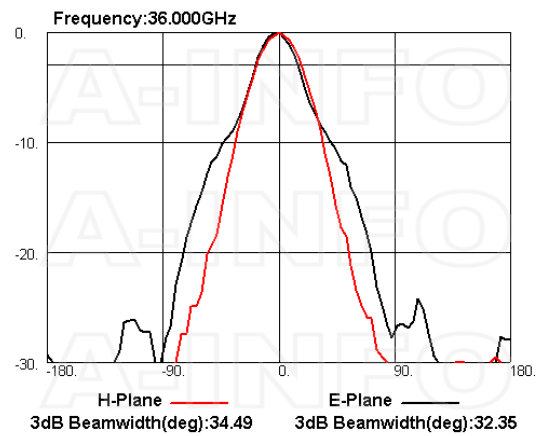
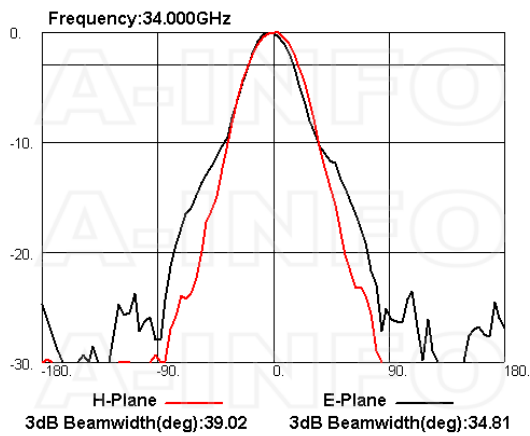
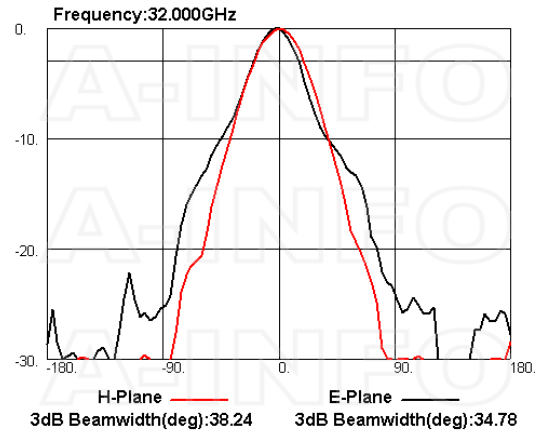
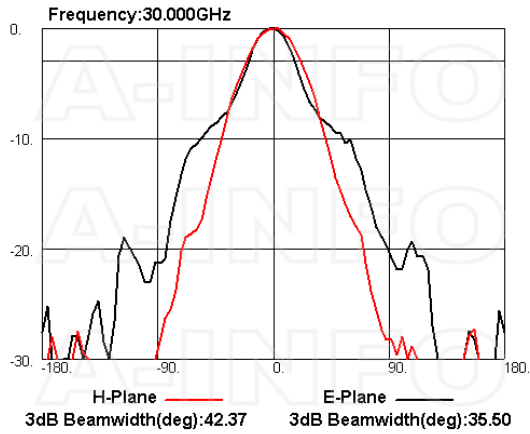


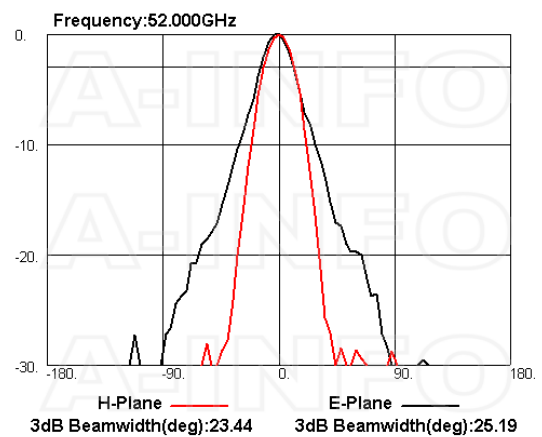
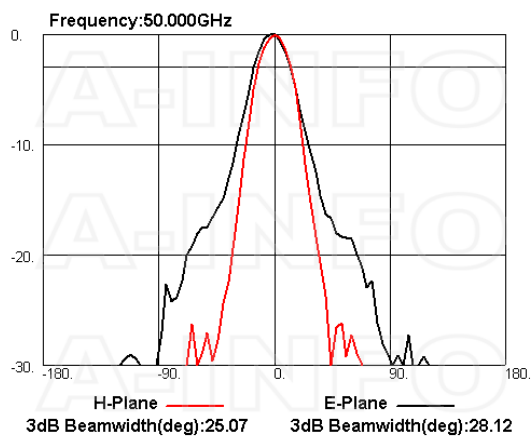
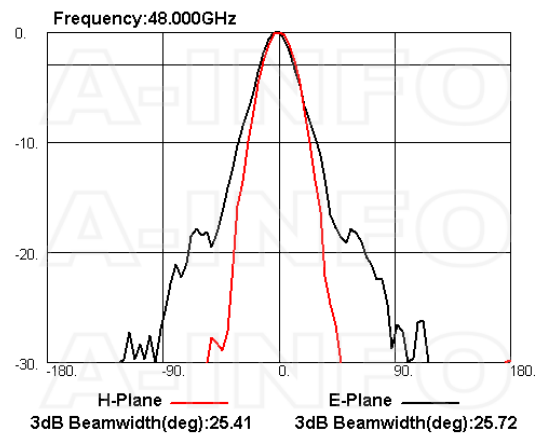
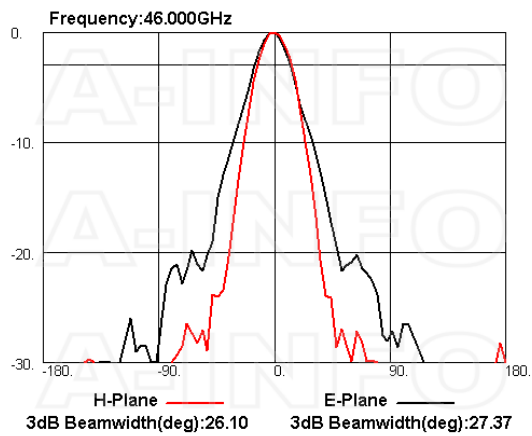
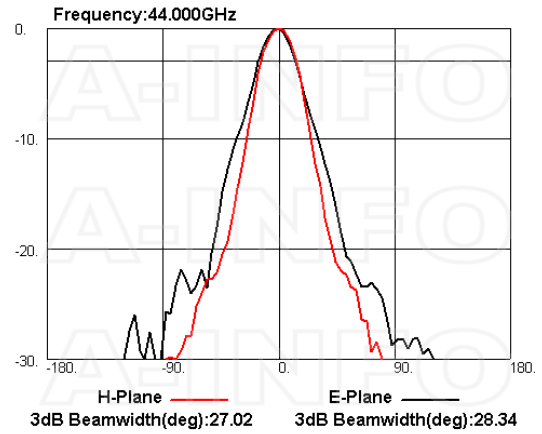
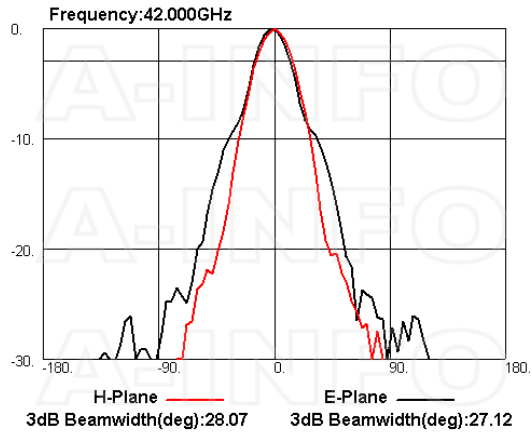
Beamwidth

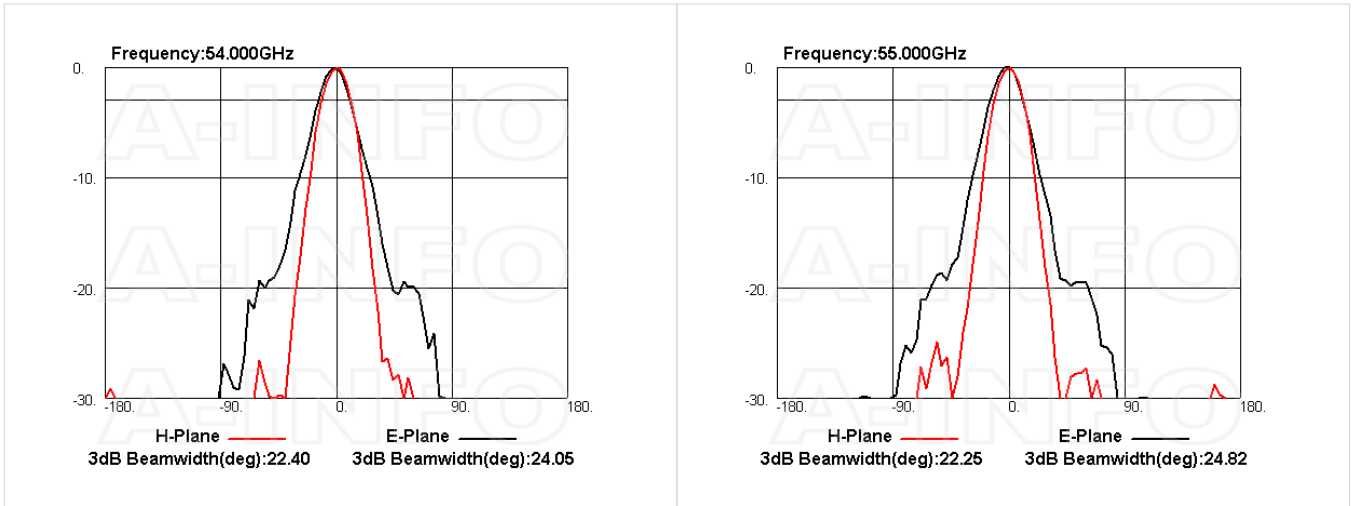


Pattern









Related Products



LB-180400-10-C-MB Round Type Mounting Bracket



LB-180400-10-C-MBL 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



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



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



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1.85M-1.85F-B010S-1500 Flexible Cable Assembly 1500mm 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

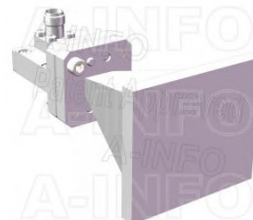
Similar Products



LB-180400-KF Broadband Horn Antenna 18-40GHz 15dB Gain 2.92mm Female



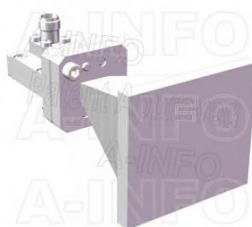
LB-180400-KM Broadband Horn Antenna 18-40GHz 15dB Gain 2.92mm Male



LB-180400-KFSPO Broadband Horn Antenna 18-40GHz 15dB Gain 2.92mm Female



LB-180400-2.4F Broadband Horn Antenna 18-40GHz 15dB Gain 2.4mm Female



LB-180400-2.4FSP0 Broadband Horn Antenna 18-40GHz 15dB Gain 2.4mm Female



LB-180400H-KF Broadband Horn Antenna 18-40GHz 20dB Gain 2.92mm Female



LB-180400H-KM Broadband Horn Antenna 18-40GHz 20dB Gain 2.92mm Male



LB-180400H-KFSPO Broadband Horn Antenna 18-40GHz 20dB Gain 2.92mm Female



LB-180400H-2.4F Broadband Horn Antenna 18-40GHz 20dB Gain 2.4mm Female



LB-180400H-2.4FSPO Broadband Horn Antenna 18-40GHz 20dB Gain 2.4mm Female



LB-180550L-1.85FSPO Broadband Horn Antenna 18-55GHz 10dB Gain 1.85mm Female



LB-180550-1.85F Broadband Horn Antenna 18-55GHz 15dB Gain 1.85mm Female



LB-180550-1.85FSPO Broadband Horn Antenna 18-55GHz 15dB Gain 1.85mm Female



LB-180550H-1.85F Broadband Horn Antenna 18-55GHz 20dB Gain 1.85mm Female



LB-180550H-1.85FSPO Broadband Horn Antenna 18-55GHz 20dB Gain 1.85mm Female



LB-60670-1.85F Broadband Horn Antenna 6-67GHz 13dB Gain 1.85mm 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 <p>Product Link: https://www.ainfoinc.com/lb-180550l-1-85f-broadband-horn-antenna-18-55-ghz-10db-gain-1-85mm-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> ● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none"> ● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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