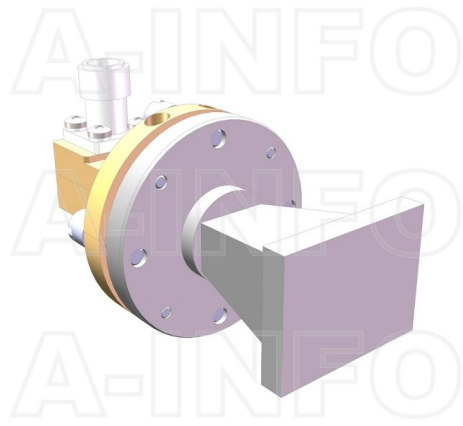


LB-19-15-C-1.85FSPO Standard Gain Horn Antenna 40-60GHz 15dB Gain 1.85mm Female

Standard Gain Horn Antenna Operating From 40GHz to 60GHz With a Nominal 15dB Gain With 1.85mm Female Connector



Product Information

SKU	LB-19-15-C-1.85FSPO
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Description

Standard Gain Horn Antenna LB-19-15-C-1.85FSPO, operating from 40 to 60GHz with a nominal 15dB gain and low VSWR 1.3:1 with 1.85mm Female connector output. The model LB-19-15-C-1.85FSPO 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 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

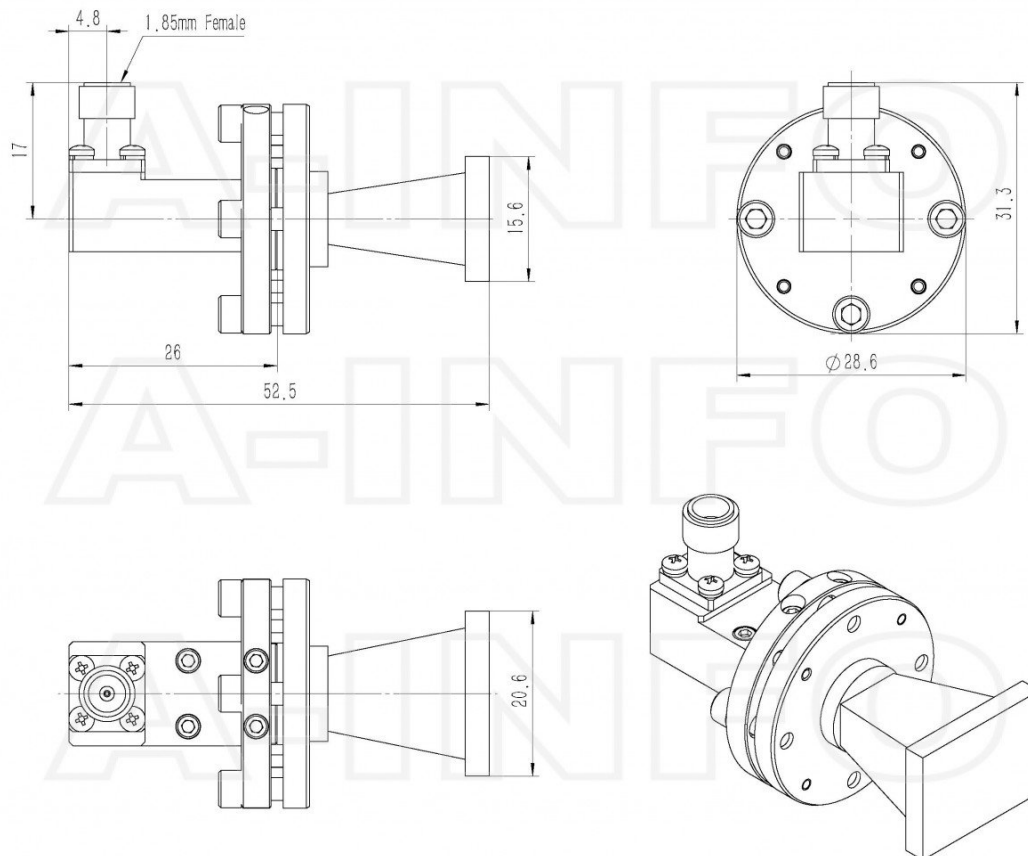
Electrical Specification		Interface	
Frequency, Min (GHz)	40	Output Type	Coaxial
Frequency, Max (GHz)	60	Connector	1.85mm(V)
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR19	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	31	Finish	Gold Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Size, W (mm)	28.6
Cross Pol. Isolation, Typ (dB)	45	Size, H (mm)	31.3
VSWR, Typ	1.3:1	Size, L (mm)	52.5
Impedance, (Ohm)	50	Weight, (kg)	0.08
Power Handling, CW, (W)	5		
Power Handling, Peak, (W)	10		

Additional Information

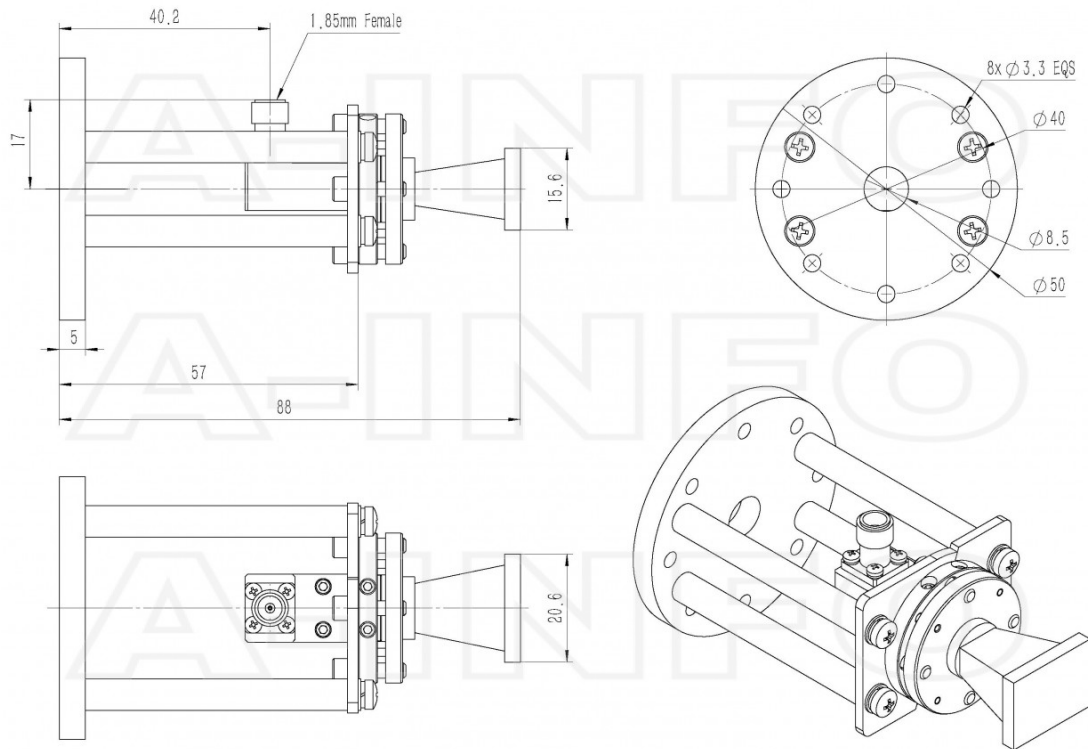
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

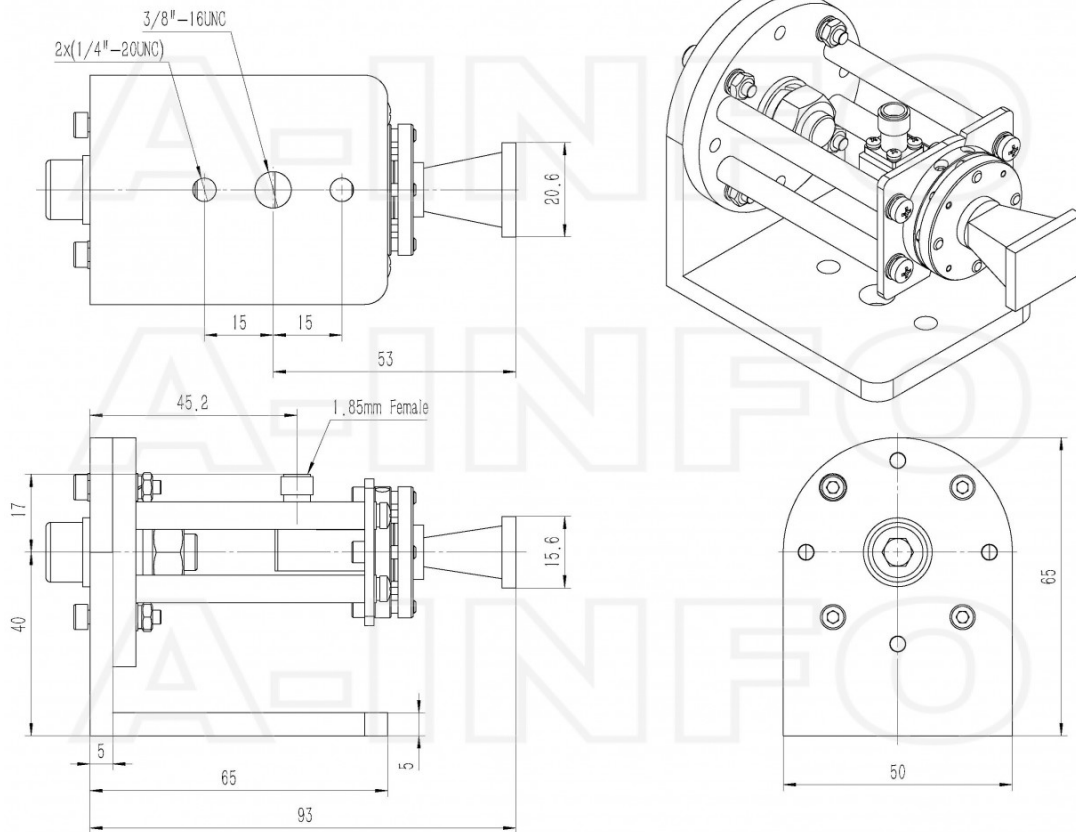
1.85mm-Female Output with Radome (Option, P/N: LB-19-15-C-1.85FSPO, Outdoor Application)



1.85mm-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-19-10-C-MB & LB-19-15-C-1.85FSPO, Outdoor Application)

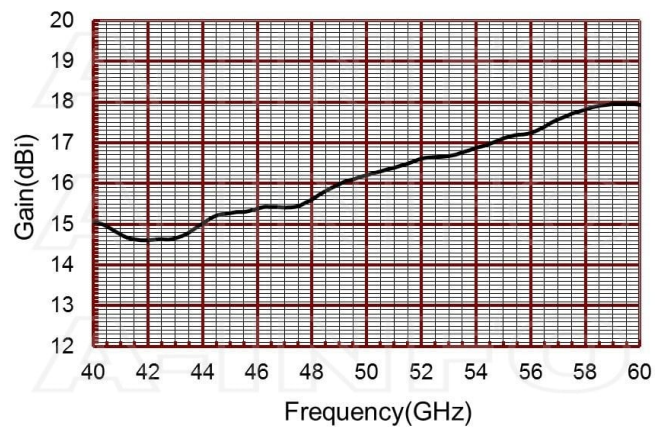


1.85mm-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-19-10-C-MBL & LB-19-15-C-1.85FSPO, Outdoor Application)

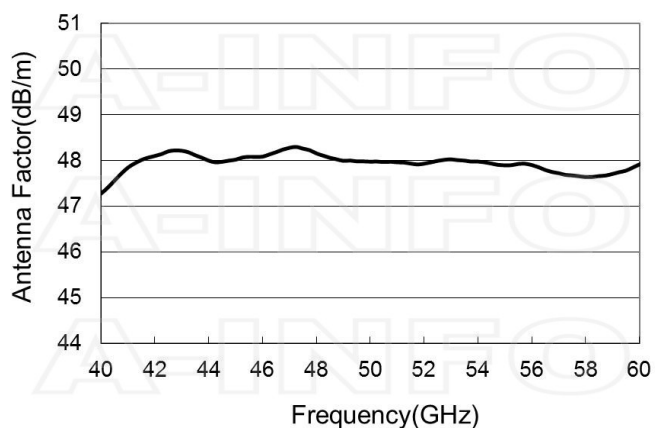


Typical Test Results

Gain



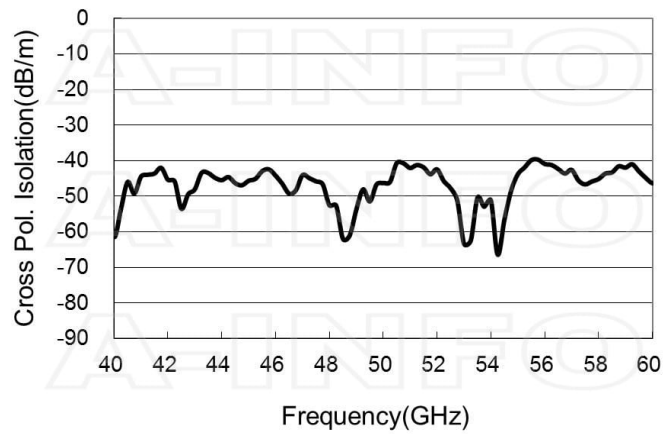
Antenna Factor



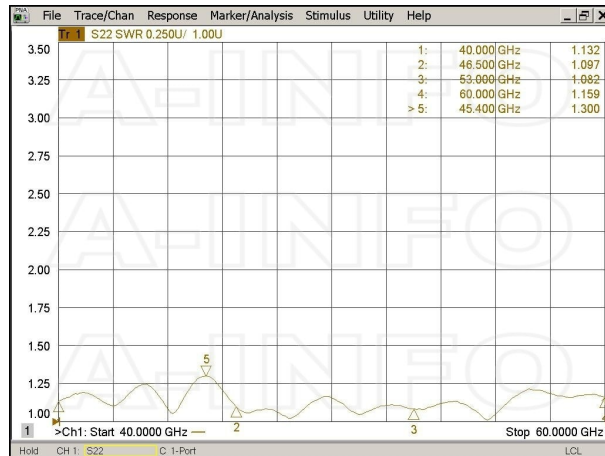
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)	Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
40.0	15.06	47.19	50.5	16.30	47.98
40.5	14.95	47.41	51.0	16.39	47.98
41.0	14.75	47.72	51.5	16.49	47.96
41.5	14.63	47.94	52.0	16.61	47.92
42.0	14.61	48.07	52.5	16.65	47.96
42.5	14.63	48.14	53.0	16.68	48.02
43.0	14.66	48.22	53.5	16.77	48.01
43.5	14.80	48.18	54.0	16.88	47.98
44.0	15.02	48.06	54.5	16.97	47.96
44.5	15.21	47.96	55.0	17.11	47.91
45.0	15.27	48.00	55.5	17.20	47.90
45.5	15.30	48.07	56.0	17.24	47.93
46.0	15.38	48.08	56.5	17.39	47.86
46.5	15.42	48.14	57.0	17.58	47.75
47.0	15.41	48.24	57.5	17.72	47.69
47.5	15.44	48.30	58.0	17.82	47.66
48.0	15.61	48.23	58.5	17.91	47.64
48.5	15.82	48.11	59.0	17.95	47.67
49.0	15.99	48.03	59.5	17.95	47.75
49.5	16.10	48.00	60.0	17.93	47.85
50.0	16.21	47.98			

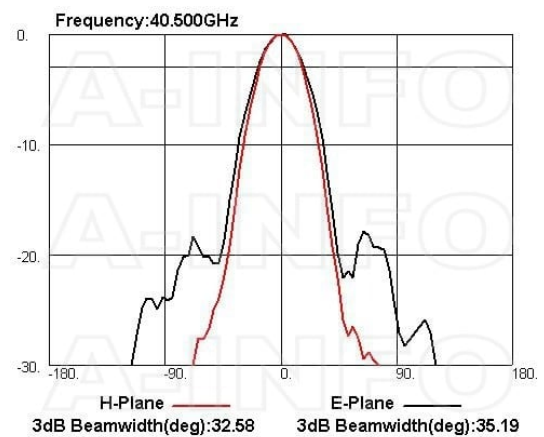
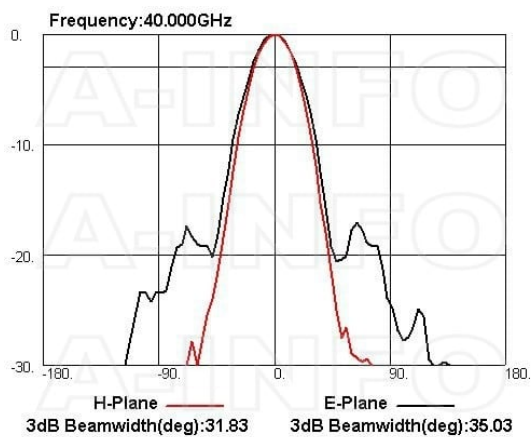
Cross Polarization Isolation

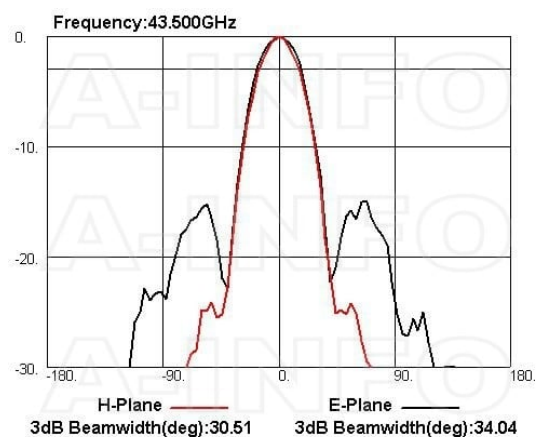
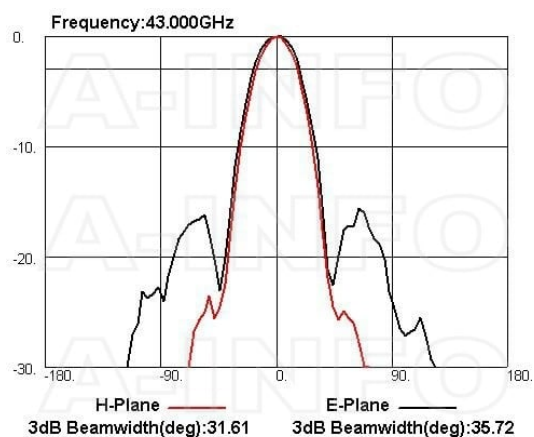
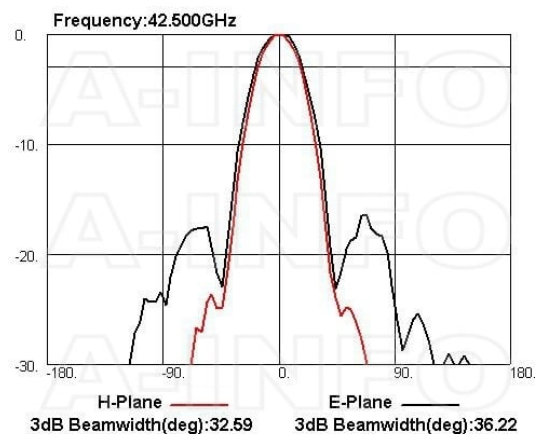
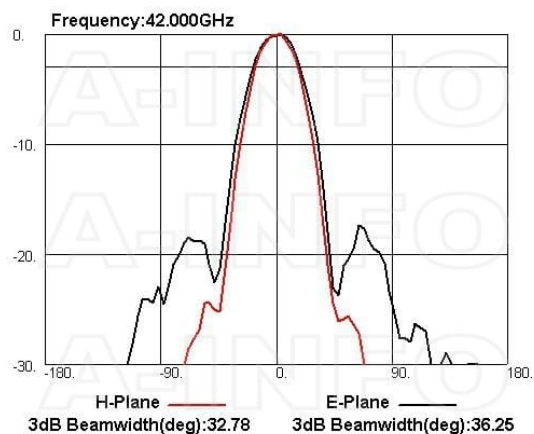
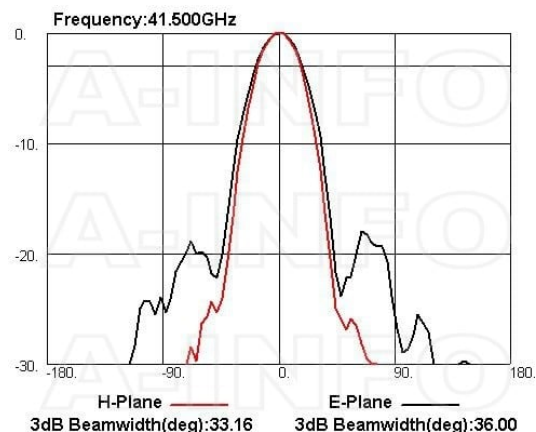
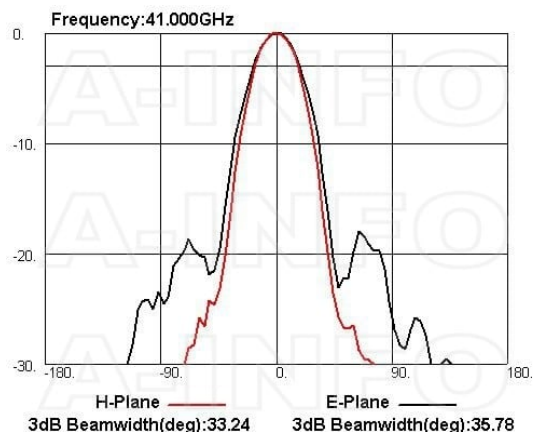


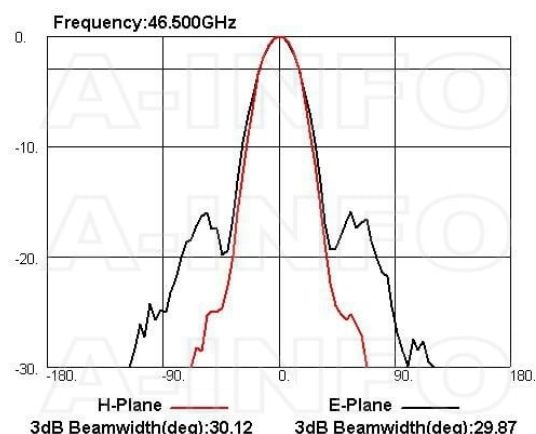
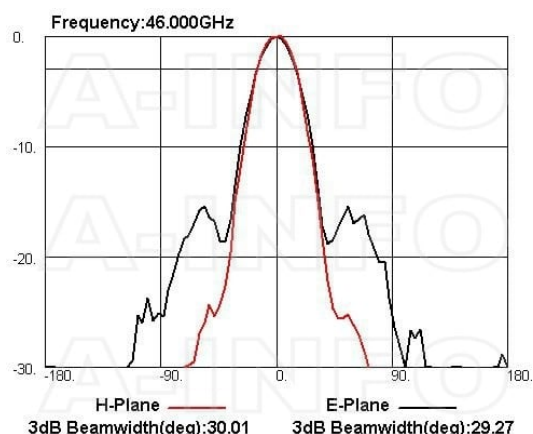
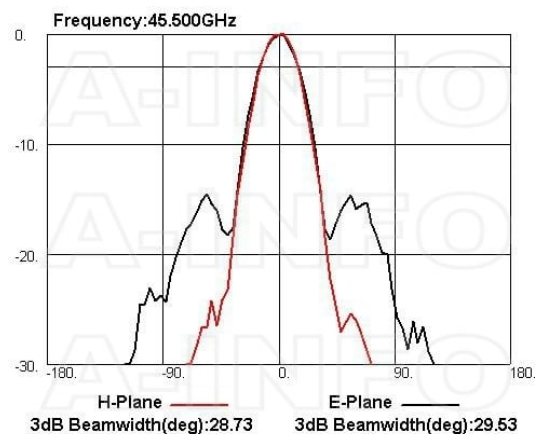
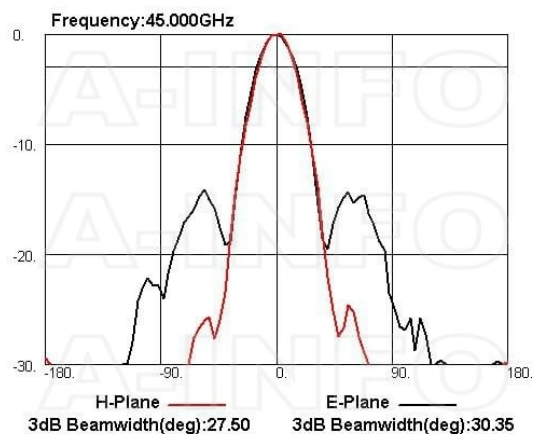
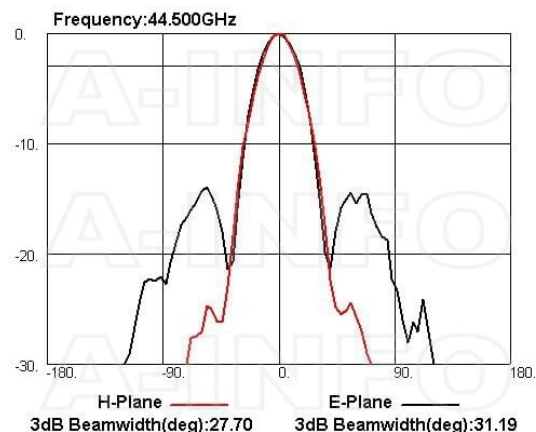
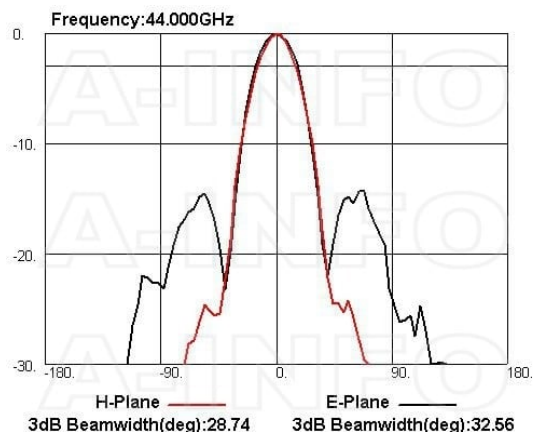
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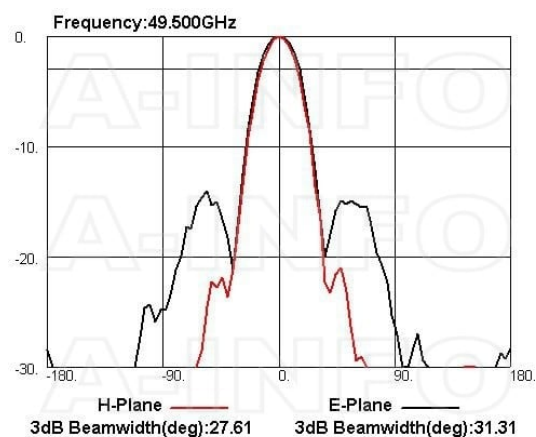
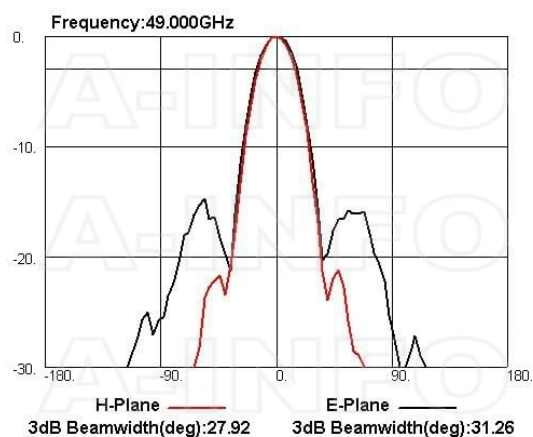
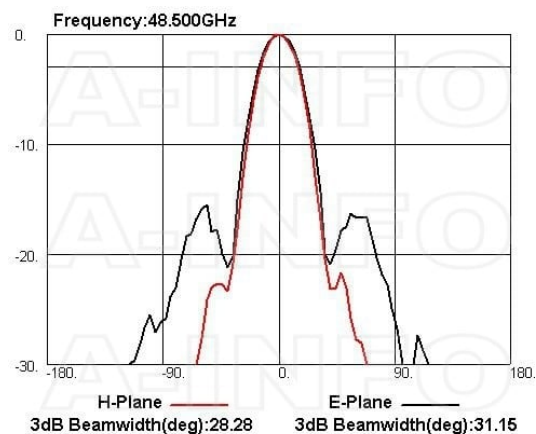
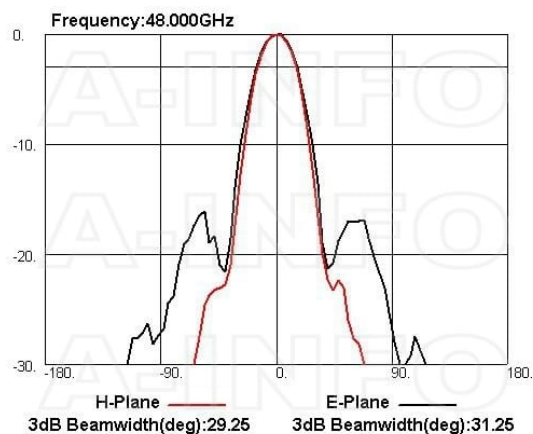
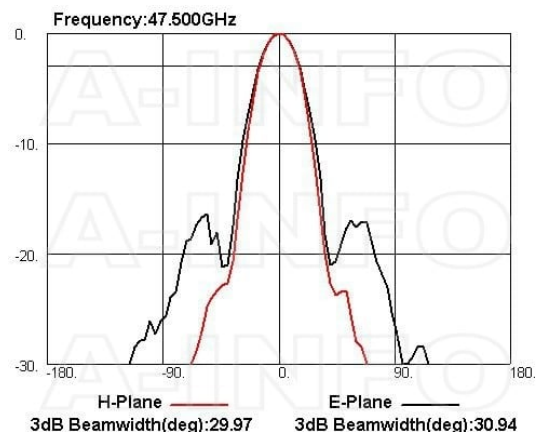
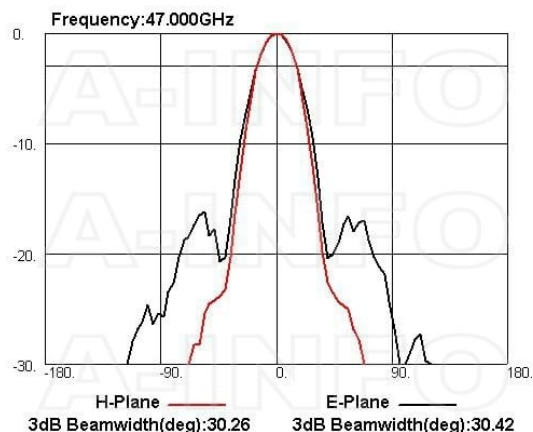


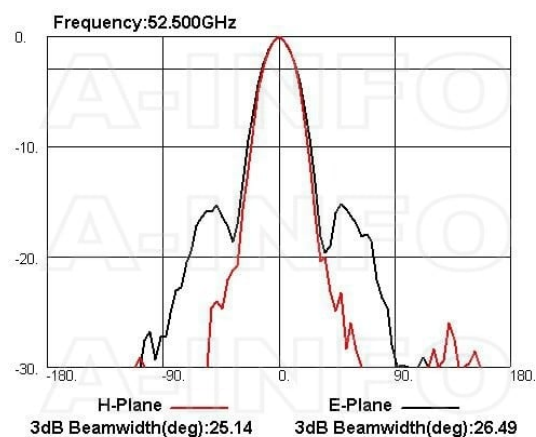
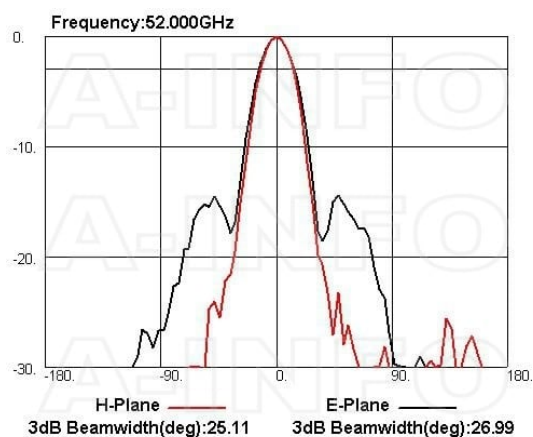
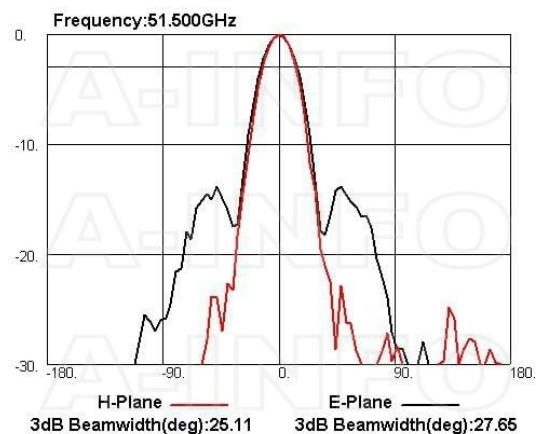
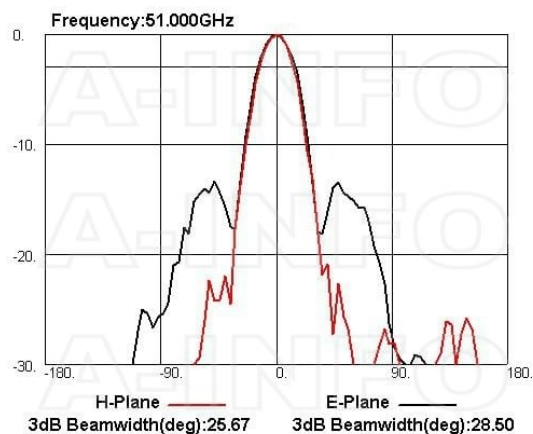
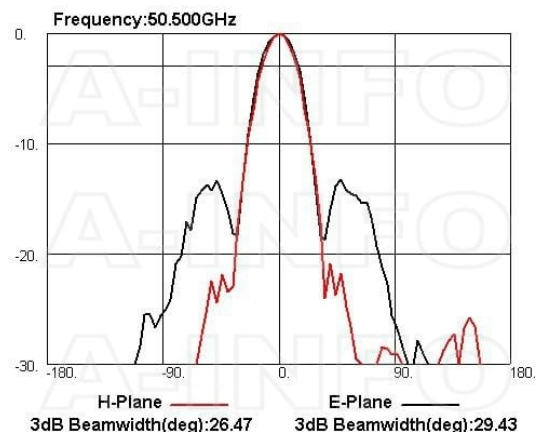
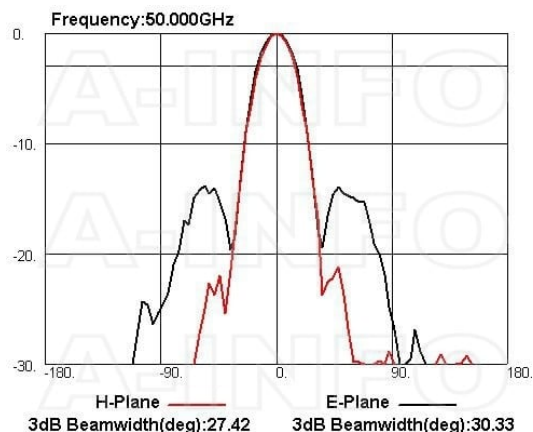
Pattern

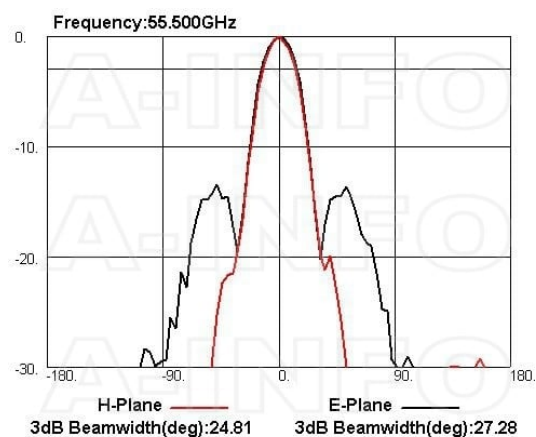
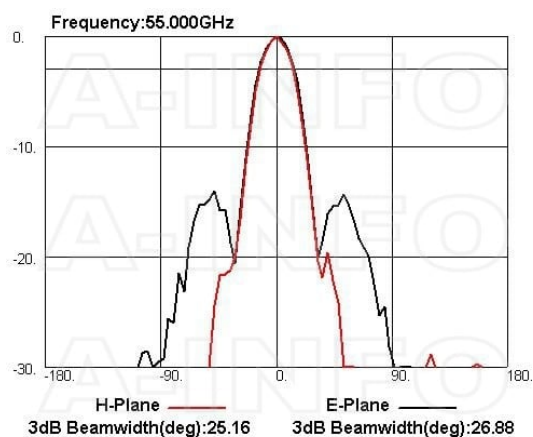
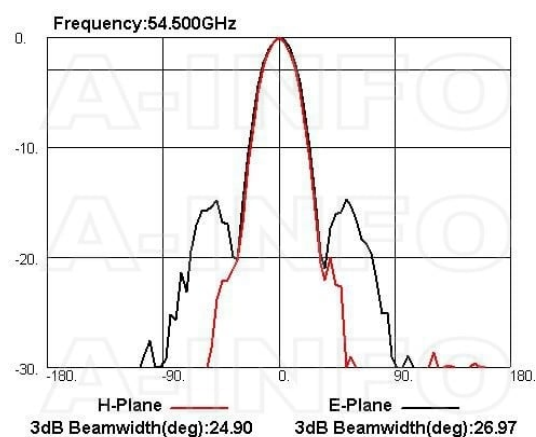
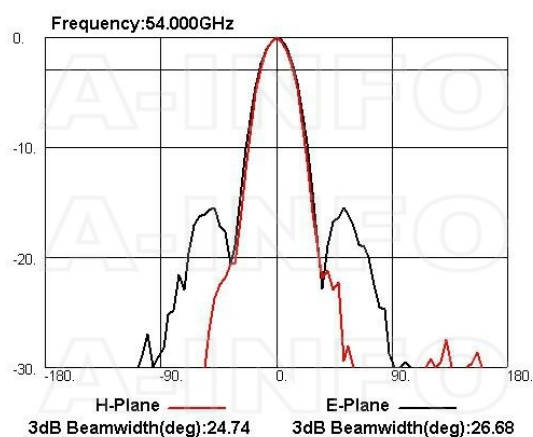
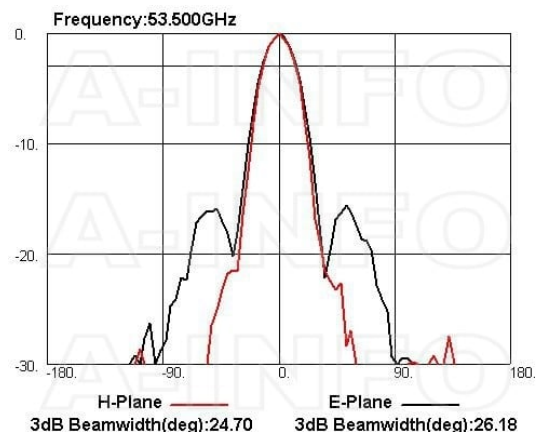
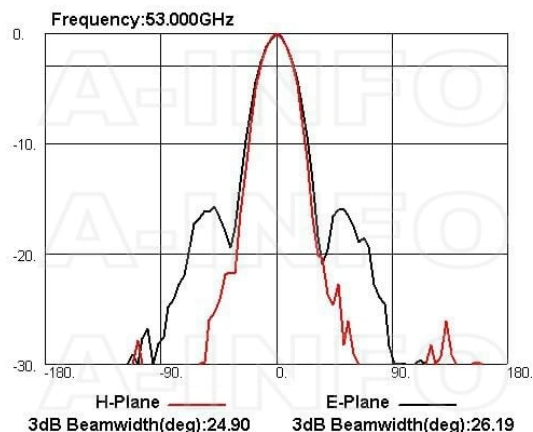


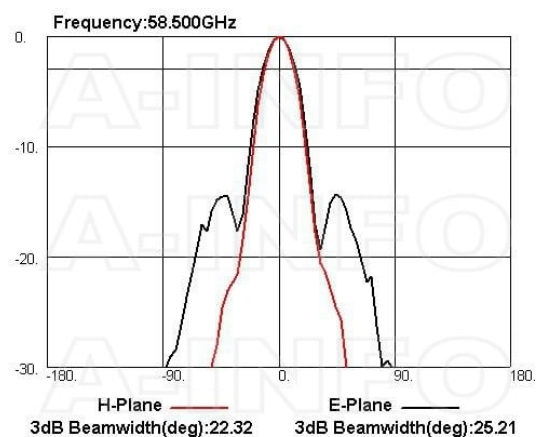
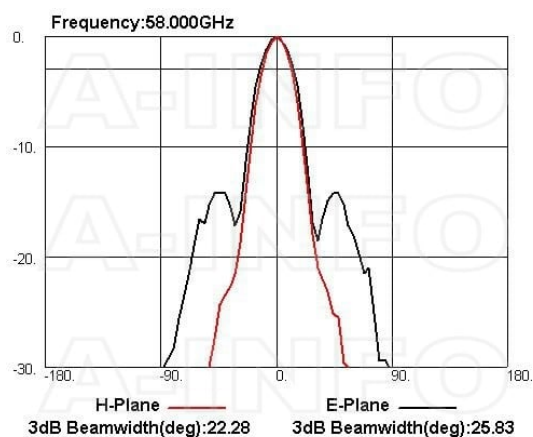
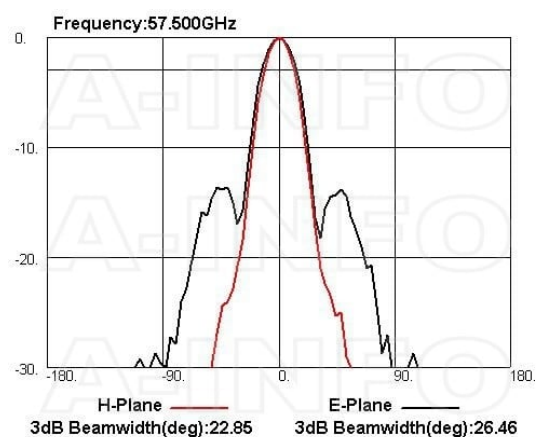
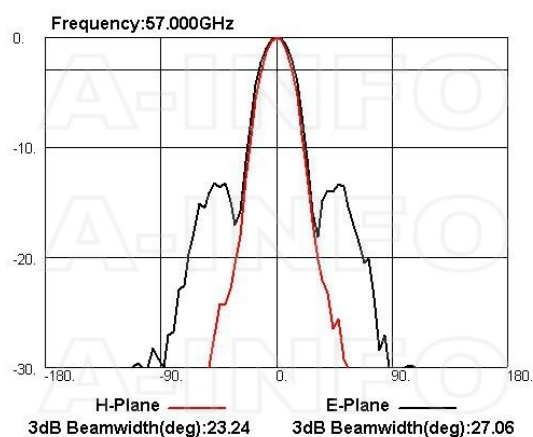
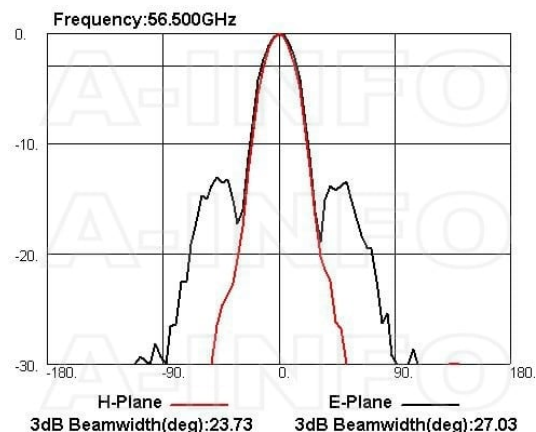
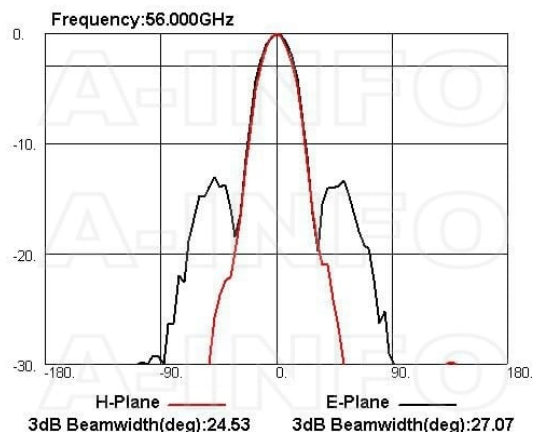


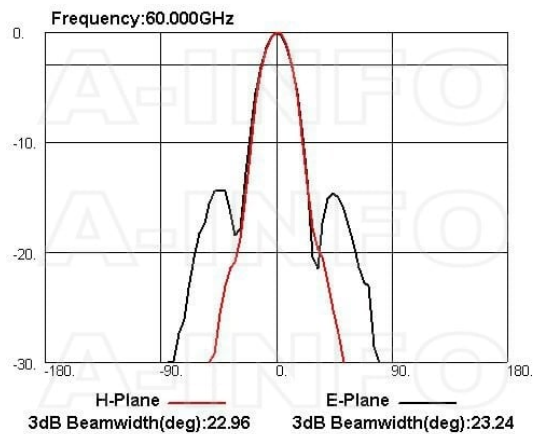
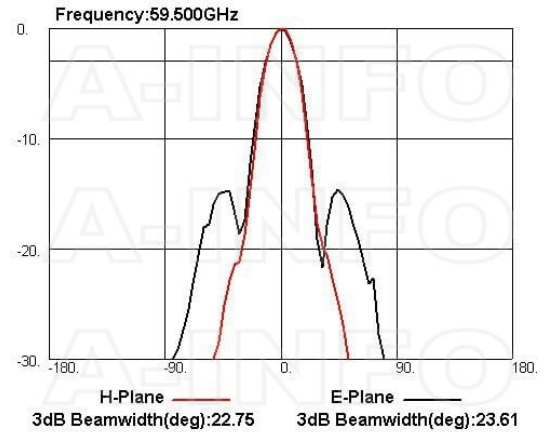
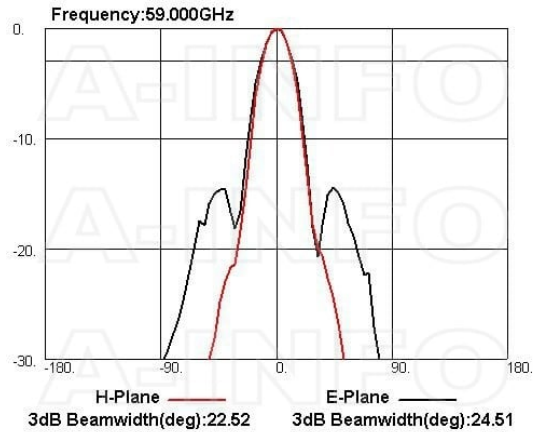












Related Products



LB-19-10-C-MB Round Type Mounting Bracket



LB-19-10-C-MBL L type mounting bracket



LB-19-10-C-MA Stinger Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod
Metalfree



Carrying Case_LB-19-15-C AI
Alloy Carrying Case



HSCS_4-40UNC_Pack Assembly
Pack



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



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



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



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



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-19-15-A Standard Gain Horn
Antenna 40-60GHz 15dB Gain
Rectangular Waveguide Interface



LB-19-15-ASPO Standard Gain
Horn Antenna 40-60GHz 15dB
Gain Rectangular Waveguide
Interface



LB-19-15-C-2.4F Standard Gain
Horn Antenna 40-50GHz 15dB
Gain 2.4mm Female



LB-19-15-C-2.4FSPO Standard
Gain Horn Antenna 40-50GHz
15dB Gain 2.4mm Female



LB-19-15-C-1.85F Standard Gain
Horn Antenna 40-60GHz 15dB
Gain 1.85mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-19-15-c-1-85fspo-standard-gain-horn-antenna-40-60-ghz-15db-gain-1-85mm-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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