



LB-42-20-C-3.5FSPO Standard Gain Horn Antenna 18-26.5GHz 20dB Gain 3.5mm Female

Standard Gain Horn Antenna Operating From 18GHz to 26.5GHz With a Nominal 20dB Gain With 3.5mm Female Connector

Product Information

SKU	LB-42-20-C-3.5FSPO
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Description

Standard Gain Horn Antenna LB-42-20-C-3.5FSPO, operating from 18 to 26.5GHz with a nominal 20dB gain and low VSWR 1.25:1 with 3.5mm Female connector output. The model LB-42-20-C-3.5FSPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 50W continuously and 100W 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

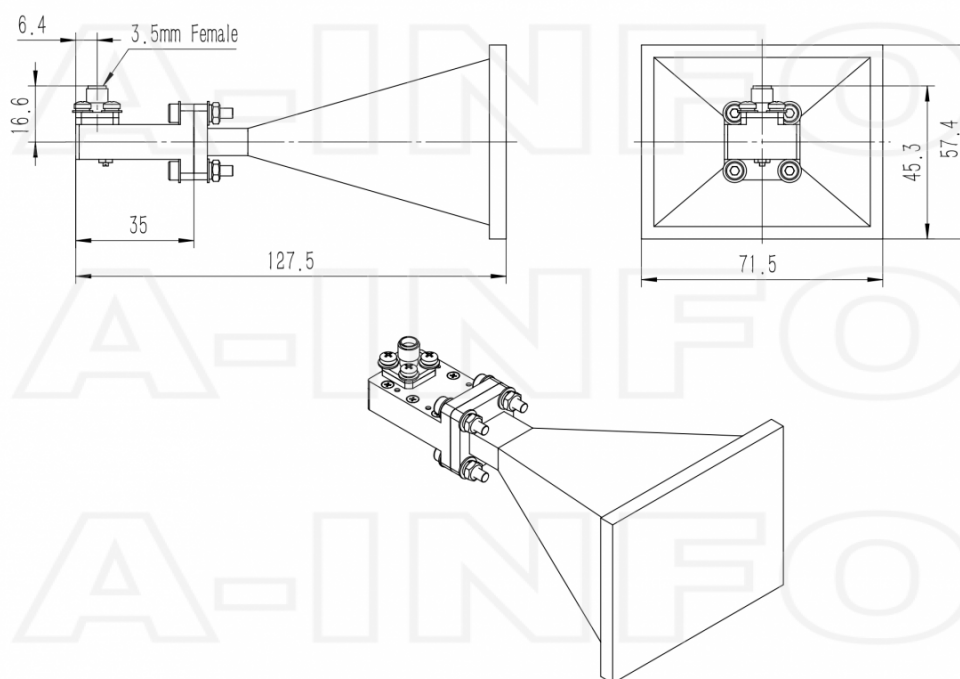
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	26.5	Connector	3.5mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR42	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Gold Plated and Passivation, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Size, W (mm)	71.5
Cross Pol. Isolation, Typ (dB)	35	Size, H (mm)	57.4
VSWR, Typ	1.25:1	Size, L (mm)	127.5
Impedance, (Ohm)	50	Weight, (kg)	0.24
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	100		

Additional Information

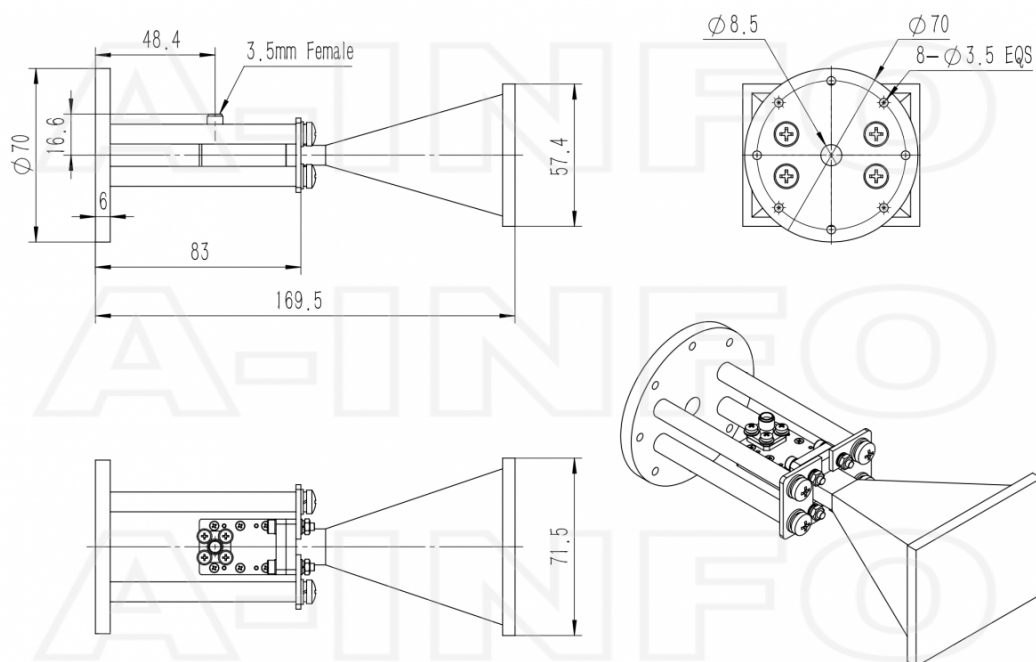
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

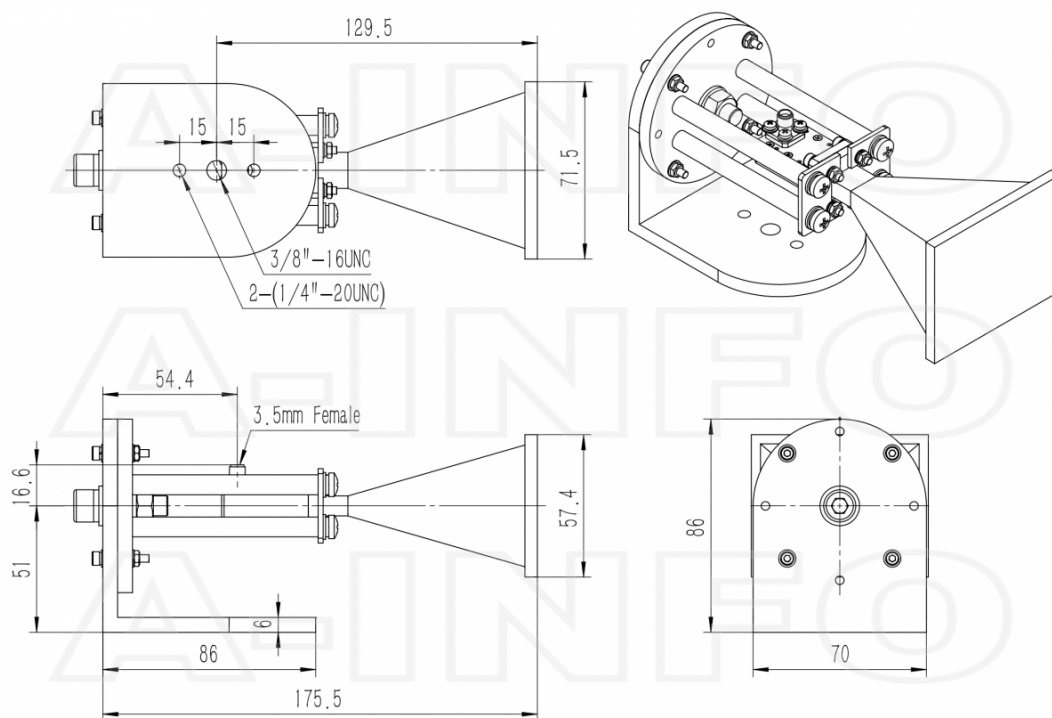
3.5mm Female Output with Radome (Option, P/N: LB-42-20-C-3.5FSPO, Outdoor Application)



3.5mm Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-42-10-C-MB & LB-42-20-C-3.5FSPO, Outdoor Application)

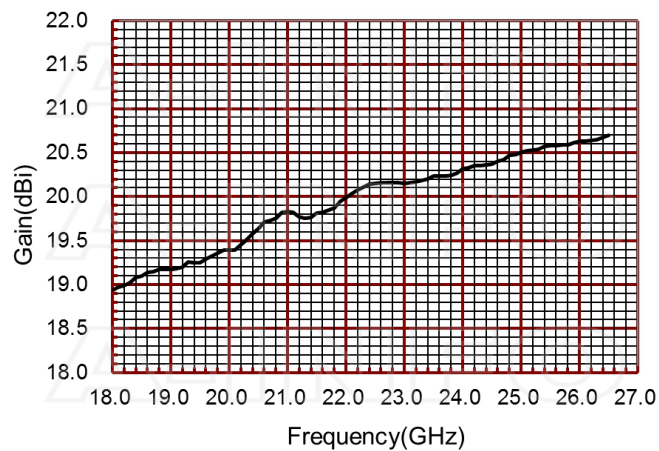


3.5mm Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-42-10-C-MBL & LB-42-20-C-3.5FSPO, Outdoor Application)

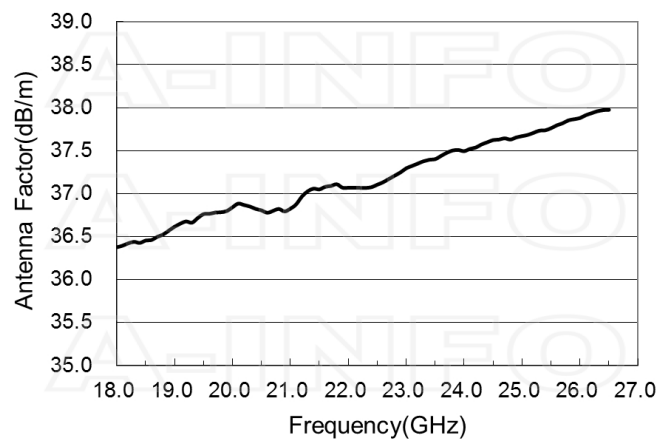


Typical Test Results

Gain



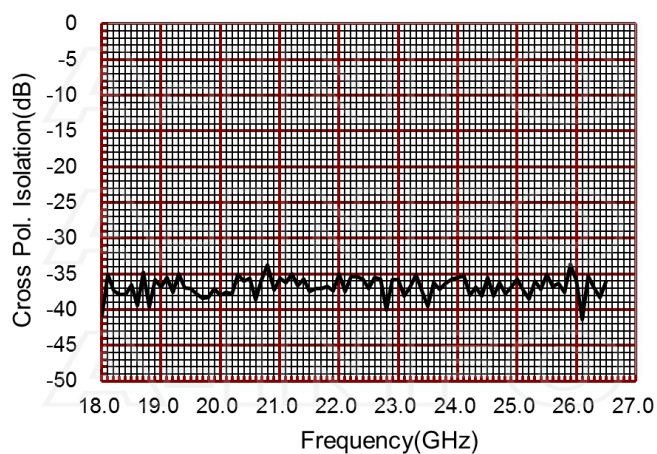
Antenna Factor



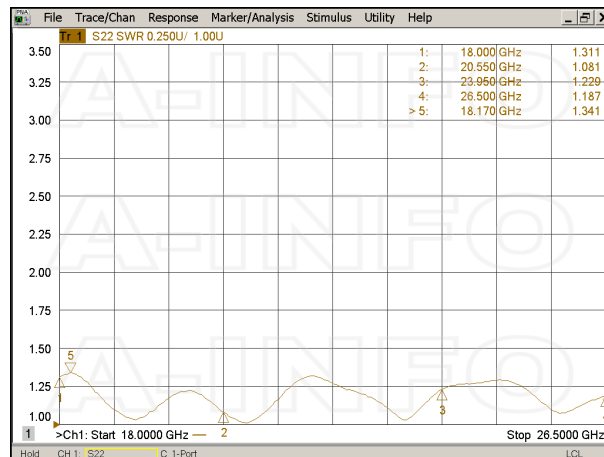
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	18.94	36.38
18.5	19.10	36.45
19.0	19.17	36.62
19.5	19.25	36.76
20.0	19.39	36.84
20.5	19.64	36.81
21.0	19.83	36.82
21.5	19.81	37.05
22.0	19.99	37.07
22.5	20.15	37.10
23.0	20.15	37.29
23.5	20.23	37.40
24.0	20.32	37.49
24.5	20.37	37.62
25.0	20.50	37.67
25.5	20.58	37.76
26.0	20.63	37.88
26.5	20.70	37.97

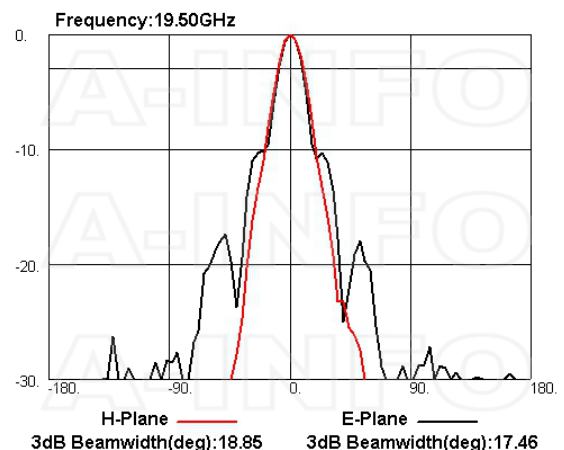
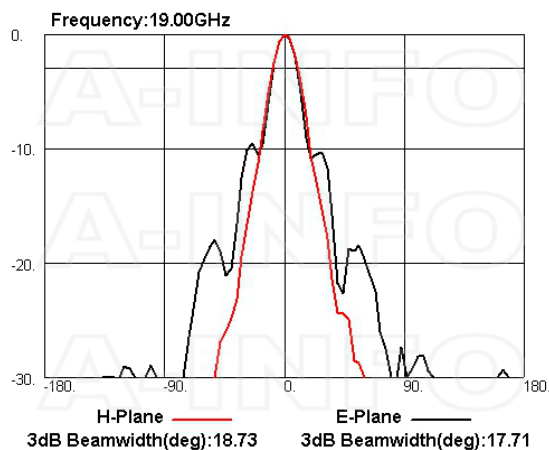
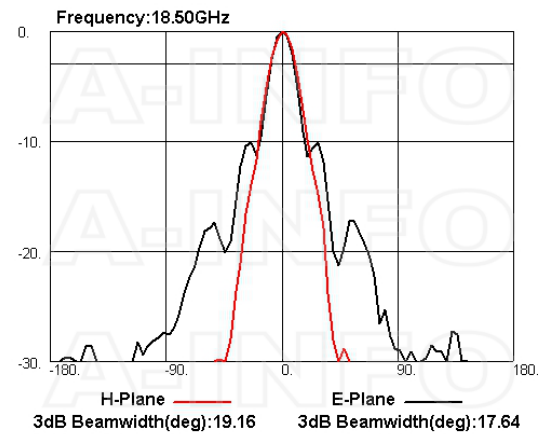
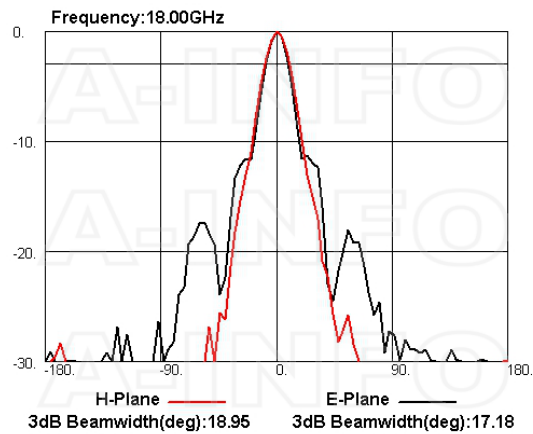
Cross Polarization Isolation

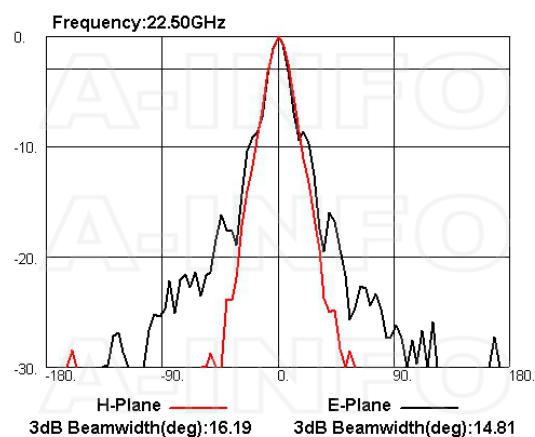
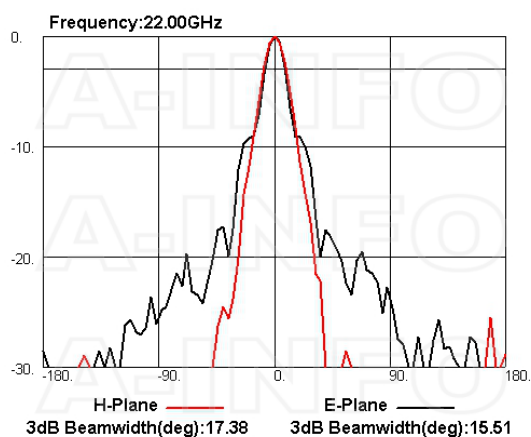
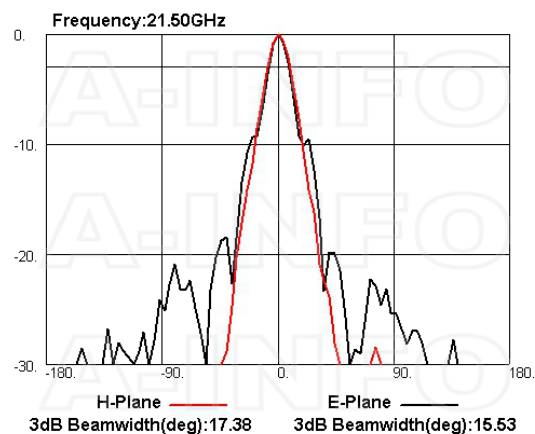
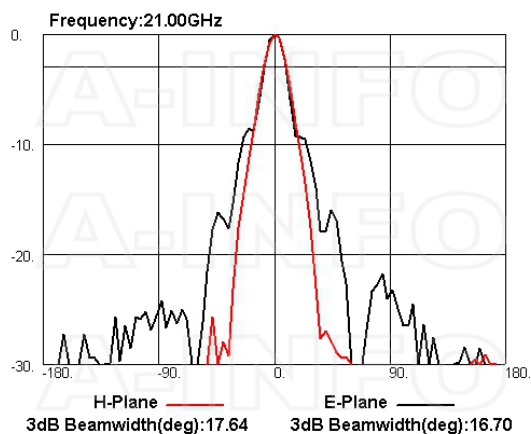
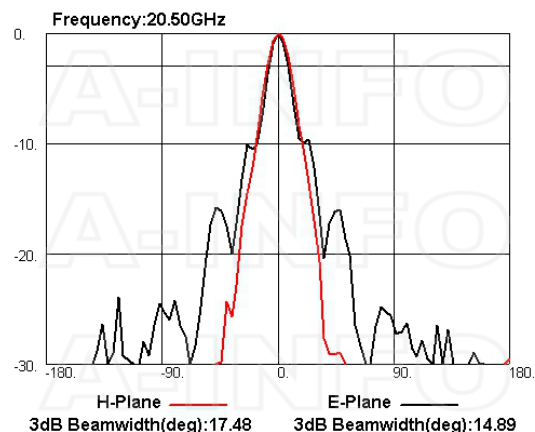
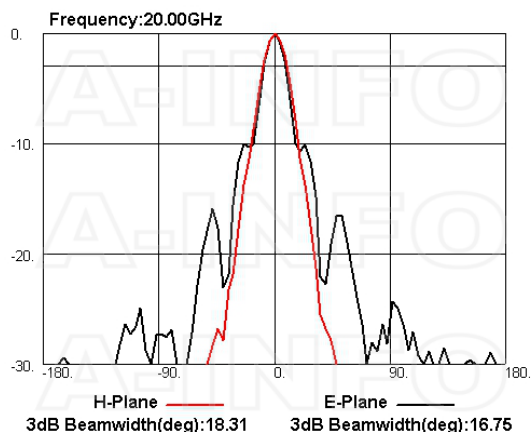


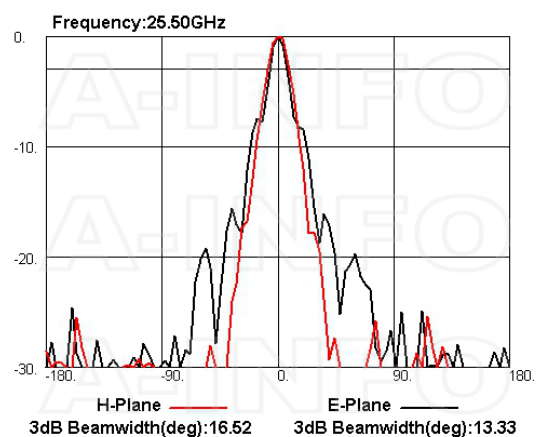
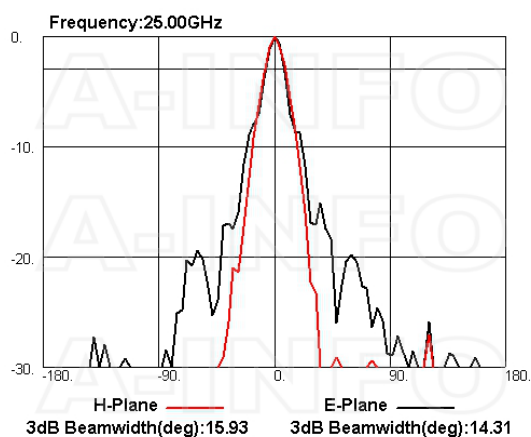
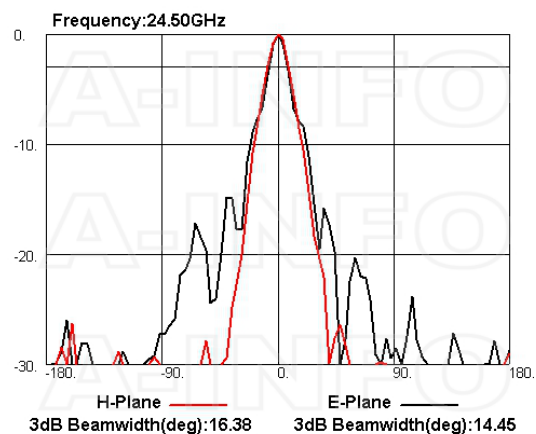
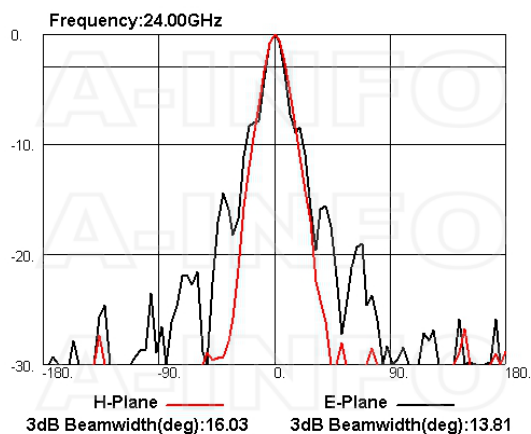
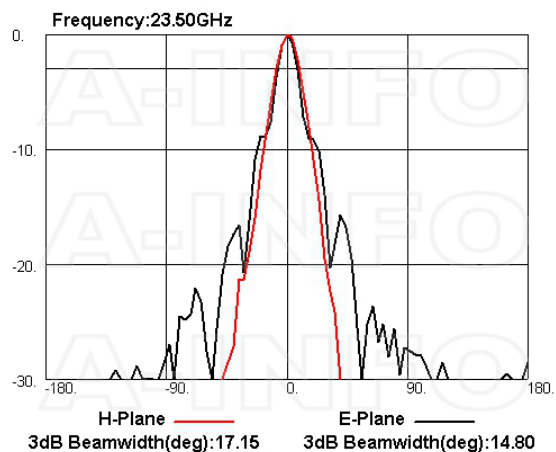
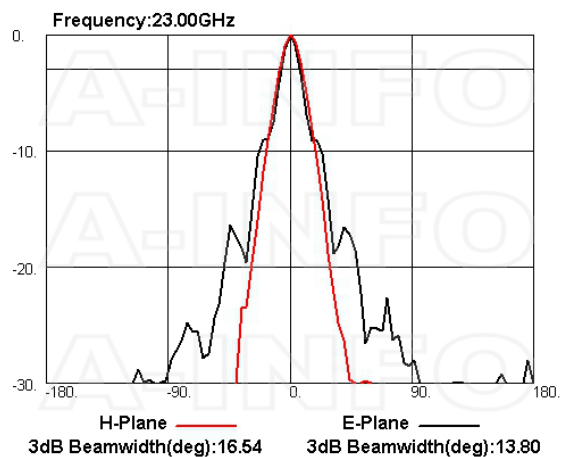
VSWR

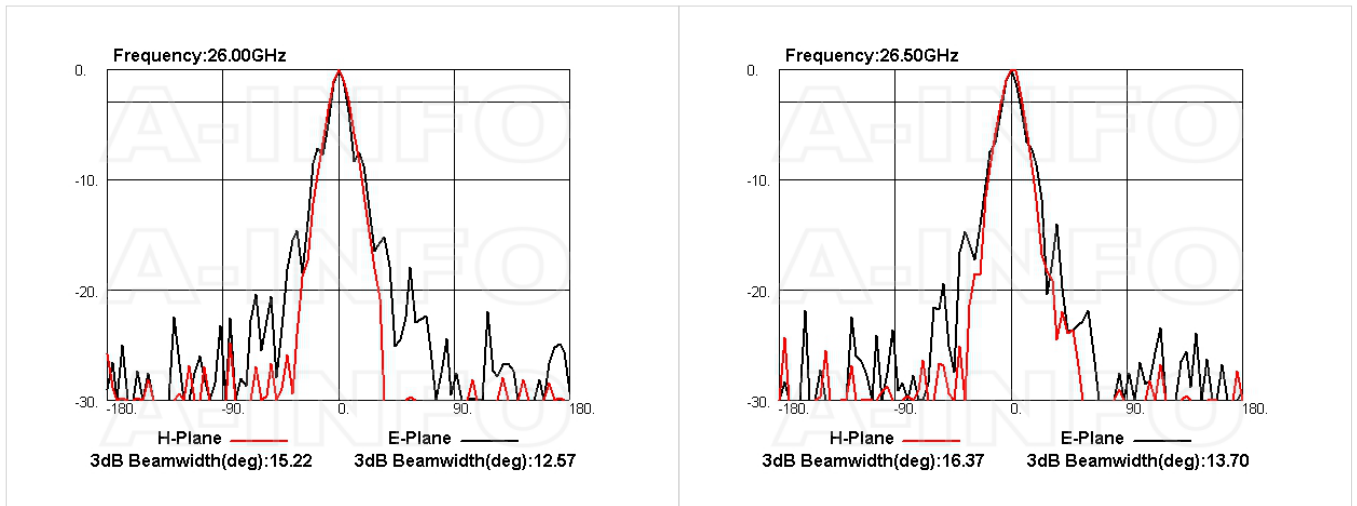


Pattern









Related Products



LB-42-10-C-MB Round Type Mounting Bracket



LB-42-10-C-MBL L Type Mounting Bracket



LB-42-10-C-MA Stinger Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-42-20-C Al Alloy Carrying Case



M3x14 Hex_Pack WR42- WR34 Flange Assembly Pack

Similar Products



LB-42-20-A Standard Gain Horn
Antenna 18-26.5GHz 20dB Gain
Rectangular Waveguide Interface



LB-42-20-ASPO Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain Rectangular Waveguide
Interface



LB-42-20-C-SF Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain SMA Female



LB-42-20-C-SFSPO Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain SMA Female



LB-42-20-C-KF Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain 2.92mm Female



LB-42-20-C-KFSPO Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain 2.92mm Female



LB-42-20-C-3.5F Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain 3.5mm Female



LB-42-20-C-EKF Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain Endlaunch 2.92mm Female

About this Datasheet

- Product Information

Product Link:
<https://www.ainfoinc.com/lb-42-20-c-3-5fspo-standard-gain-horn-antenna-18-26-5-ghz-20db-gain-3-5mm-female>
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