



LB-42-15-C-3.5F Standard Gain Horn Antenna 18-26.5GHz 15dB Gain 3.5mm Female

Standard Gain Horn Antenna Operating From 18GHz to 26.5GHz With a Nominal 15dB Gain With 3.5mm Female Connector

Product Information

SKU	LB-42-15-C-3.5F
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Description

Standard Gain Horn Antenna LB-42-15-C-3.5F, operating from 18 to 26.5GHz with a nominal 15dB gain and low VSWR 1.25:1 with 3.5mm Female connector output. The model LB-42-15-C-3.5F 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 antenna will provide years of trouble-free indoor and outdoor service. 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

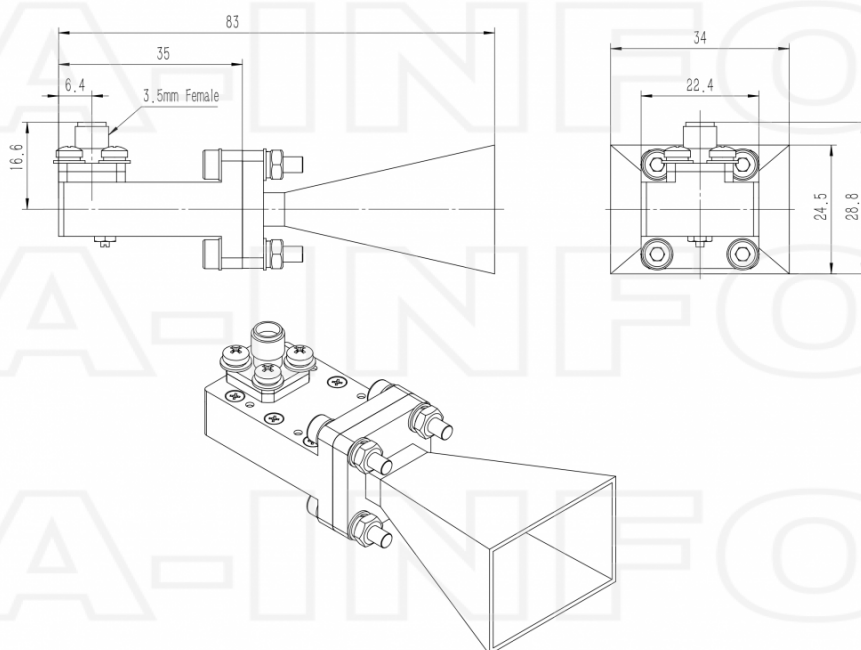
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	26.5	Connector	3.5mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR42	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	29	Finish	Gold Plated and Passivation, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Size, W (mm)	34
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	28.8
VSWR, Typ	1.25:1	Size, L (mm)	83
Impedance, (Ohm)	50	Weight, (kg)	0.12
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	100		

Additional Information

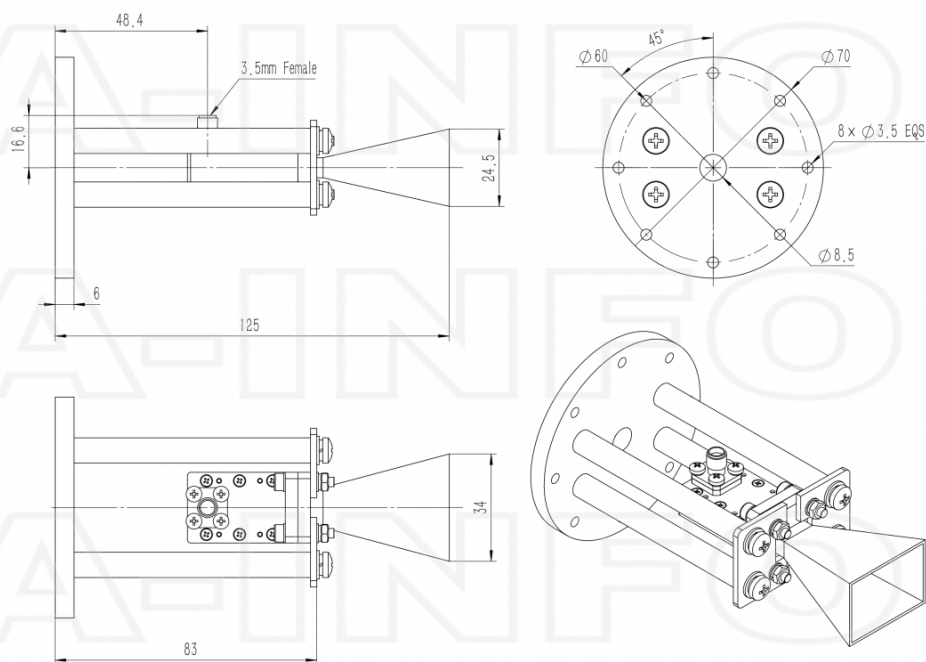
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

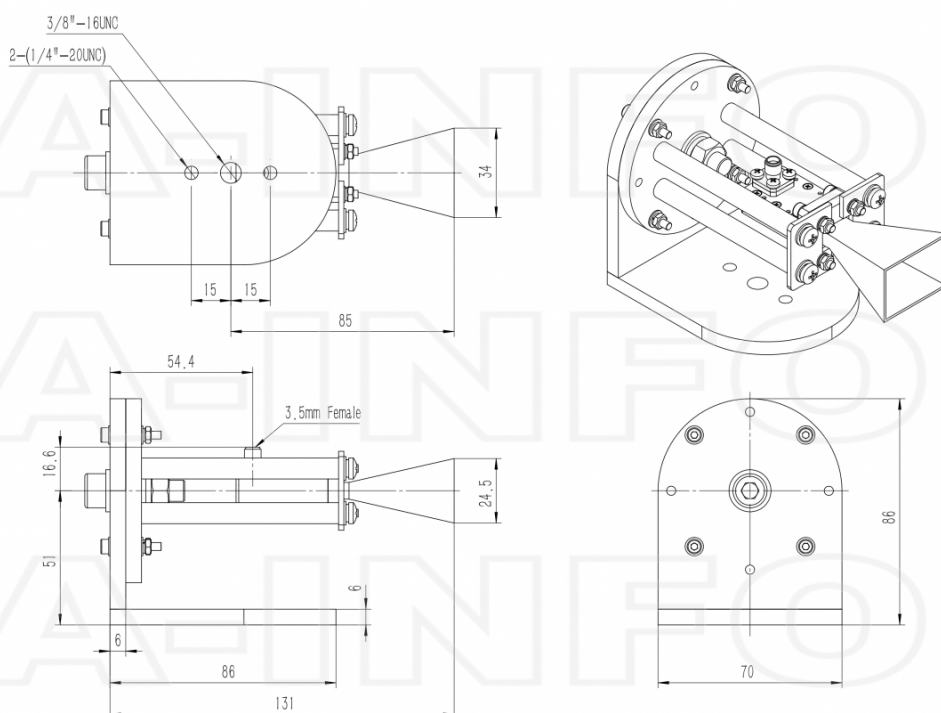
3.5mm Female Output (P/N: LB-42-15-C-3.5F)



3.5mm Female Output with Round Mounting Bracket (Option, P/N: LB-42-10-C-MB)

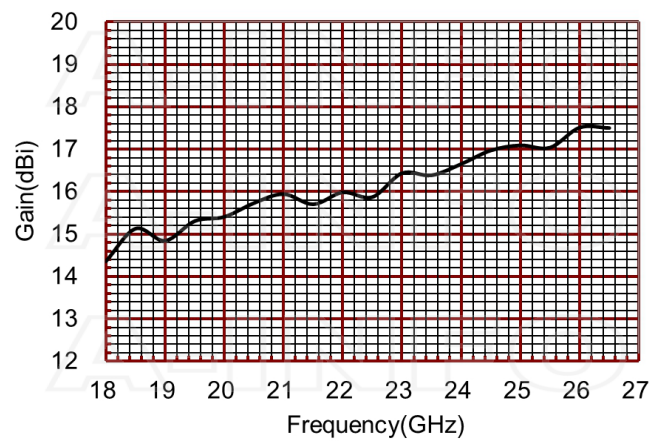


3.5mm Female Output with L Type Mounting Bracket (Option, P/N: LB-42-10-C-MBL)

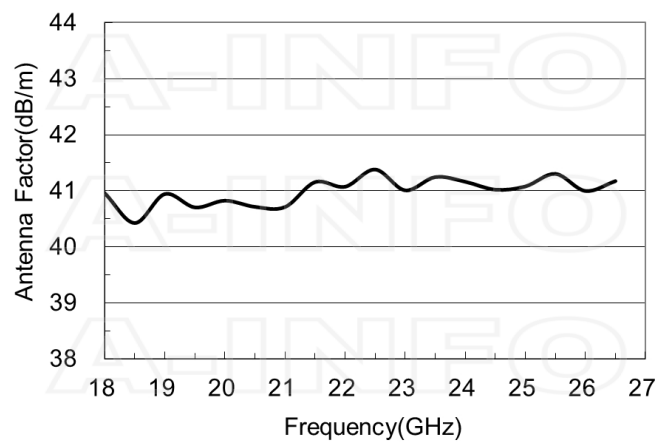


Typical Test Results

Gain



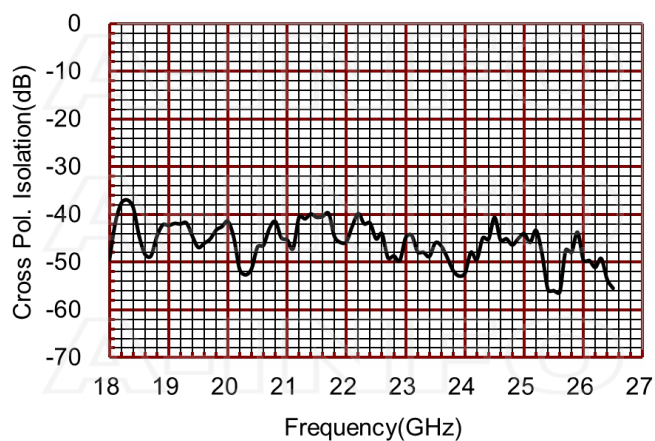
Antenna Factor



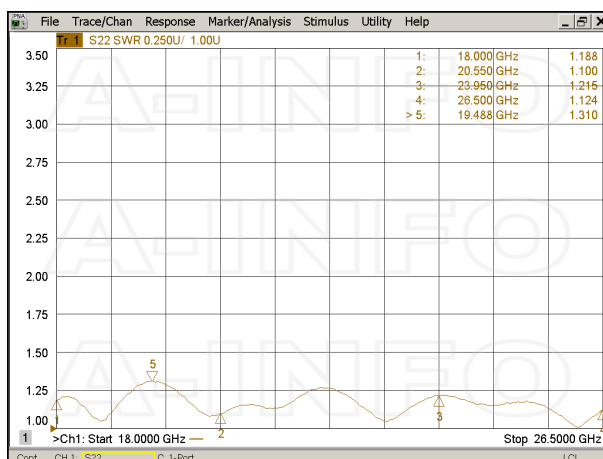
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.00	14.36	40.96
18.50	15.13	40.43
19.00	14.84	40.94
19.50	15.31	40.70
20.00	15.40	40.83
20.50	15.73	40.72
21.00	15.94	40.71
21.50	15.70	41.16
22.00	15.98	41.07
22.50	15.87	41.38
23.00	16.44	41.01
23.50	16.39	41.25
24.00	16.65	41.16
24.50	16.97	41.02
25.00	17.09	41.08
25.50	17.04	41.30
26.00	17.51	41.00
26.50	17.50	41.17

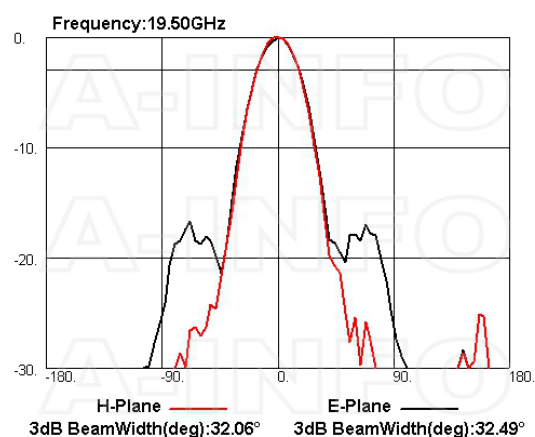
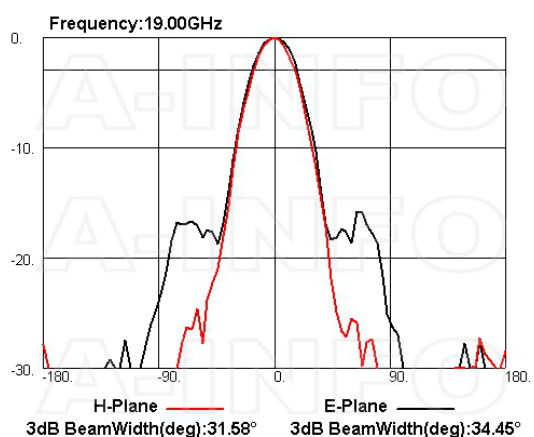
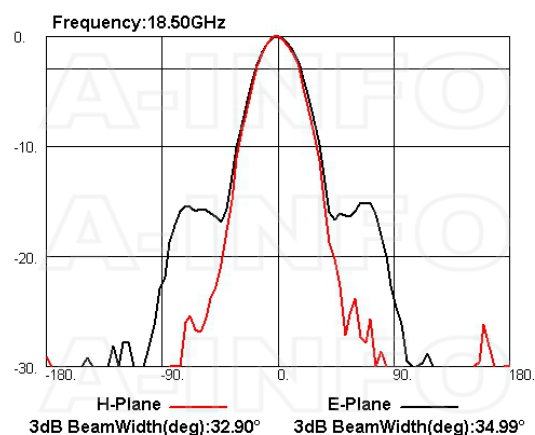
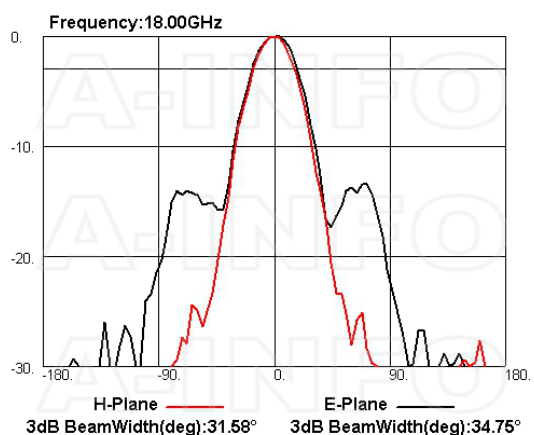
Cross Polarization Isolation

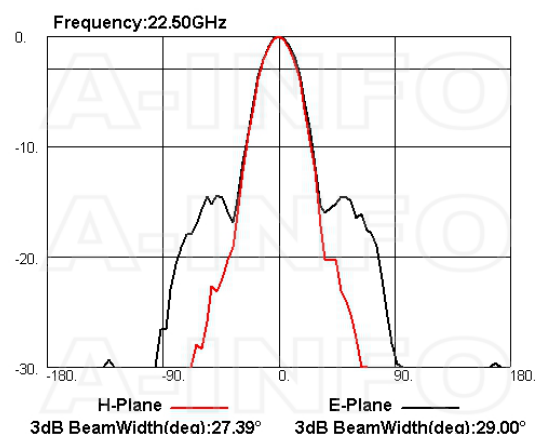
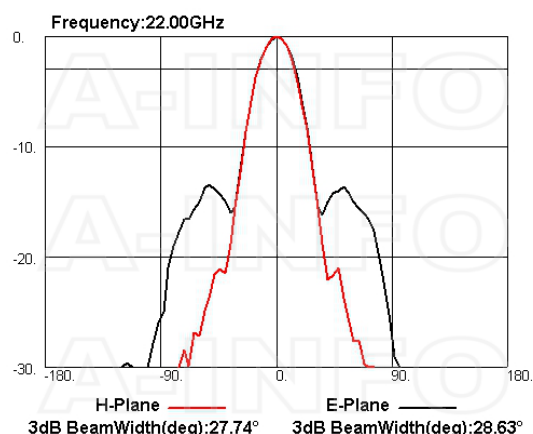
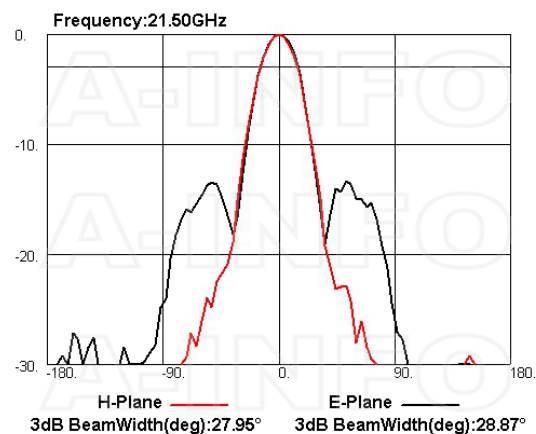
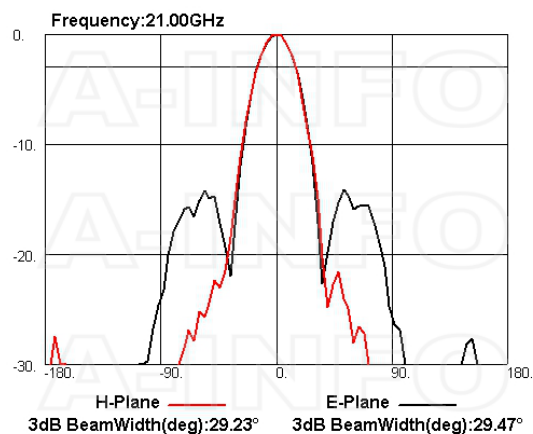
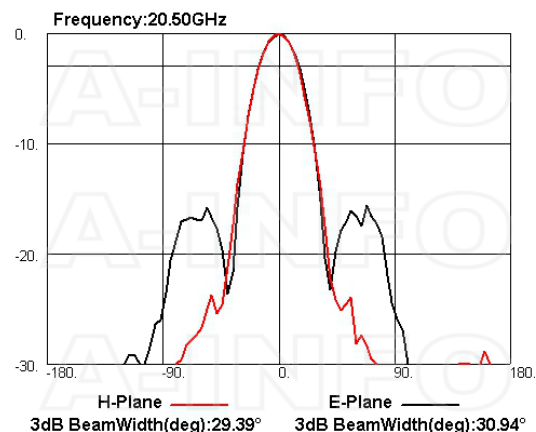
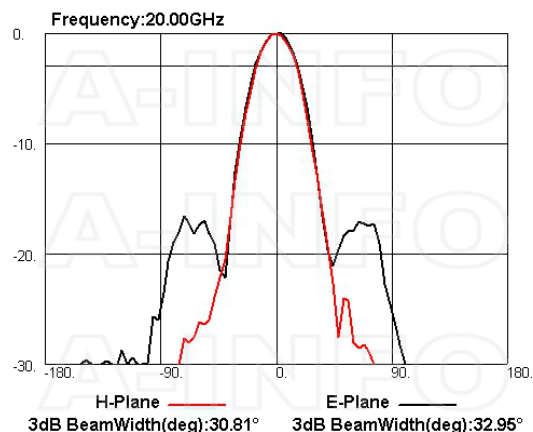


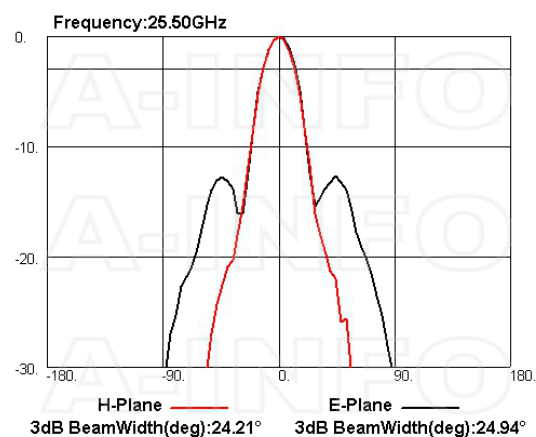
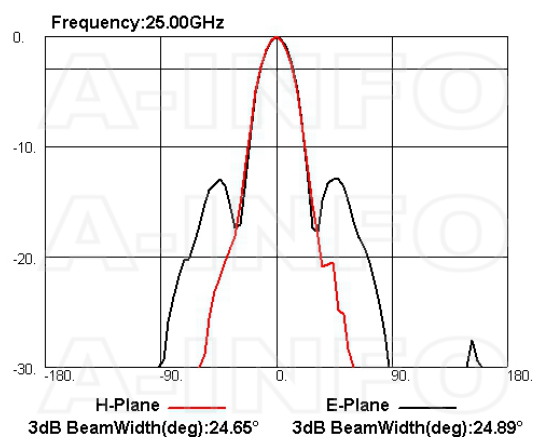
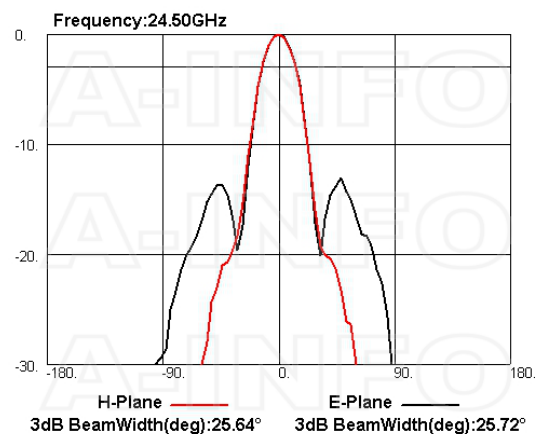
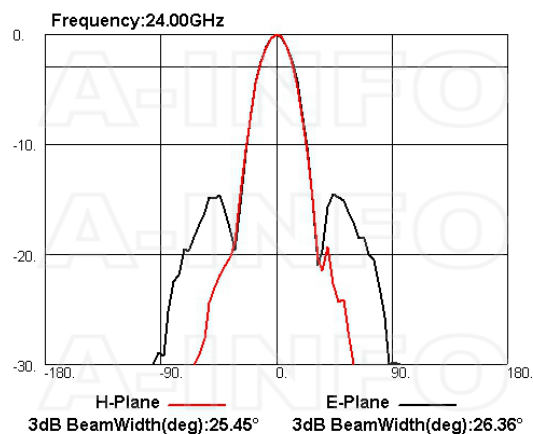
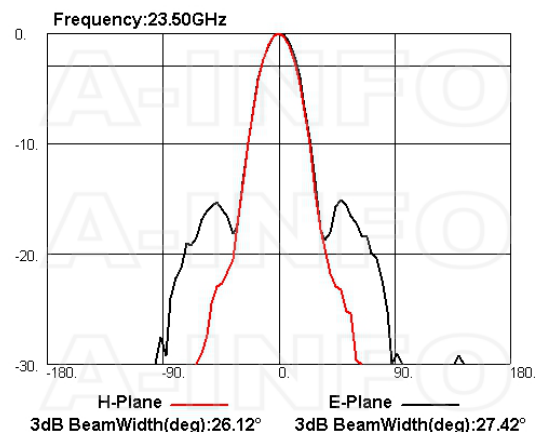
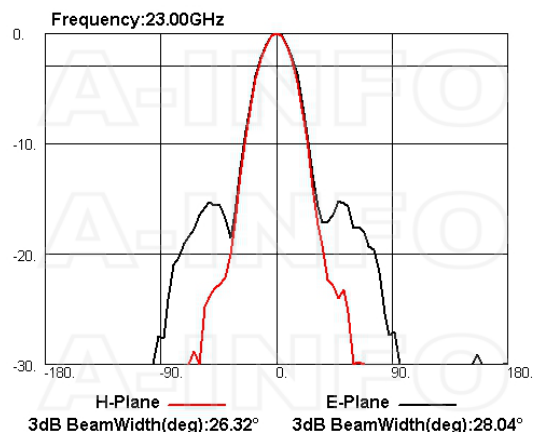
VSWR

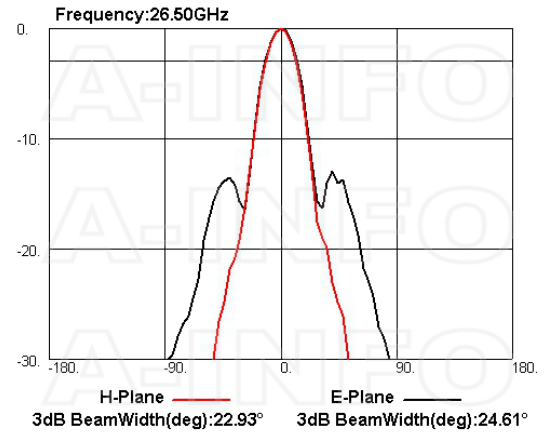
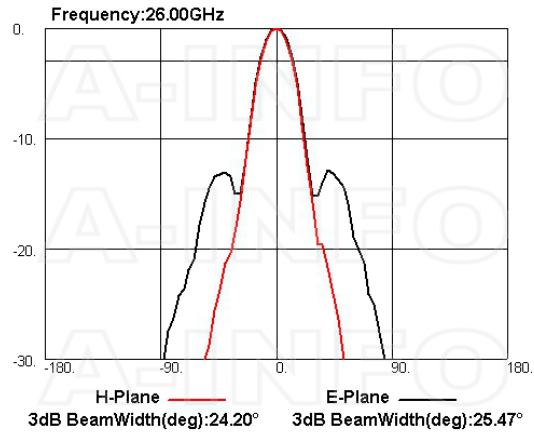


Pattern









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-42-15-C Al Alloy Carrying Case

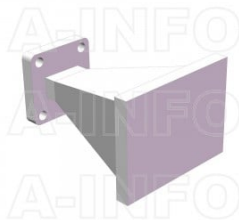


M3x14 Hex_Pack WR42- WR34 Flange Assembly Pack

Similar Products



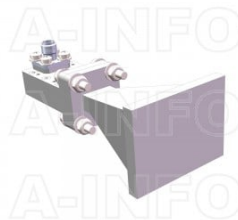
LB-42-15-A Standard Gain Horn
Antenna 18-26.5GHz 15dB Gain
Rectangular Waveguide Interface



LB-42-15-ASPO Standard Gain
Horn Antenna 18-26.5GHz 15dB
Gain Rectangular Waveguide
Interface



LB-42-15-C-SF Standard Gain
Horn Antenna 18-26.5GHz 15dB
Gain SMA Female



LB-42-15-C-SFSPO Standard Gain
Horn Antenna 18-26.5GHz 15dB
Gain SMA Female



LB-42-15-C-KF Standard Gain
Horn Antenna 18-26.5GHz 15dB
Gain 2.92mm Female



LB-42-15-C-KFSPO Standard Gain
Horn Antenna 18-26.5GHz 15dB
Gain 2.92mm Female



LB-42-15-C-3.5FSP Standard
Gain Horn Antenna 18-26.5GHz
15dB Gain 3.5mm Female

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-42-15-c-3-5f-standard-gain-horn-antenna-18-26-5-ghz-15db-gain-3-5mm-female Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	• Contact Us Address:dd 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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