

LB-90-10-C-3.5F Standard Gain Horn Antenna 8.2-12.4GHz 10dB Gain
3.5mm Female



Standard Gain Horn Antenna Operating From 8.2GHz to 12.4GHz With a Nominal 10dB Gain With 3.5mm Female Connector

Product Information

SKU	LB-90-10-C-3.5F
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Description

Standard Gain Horn Antenna LB-90-10-C-3.5F, operating from 8.2 to 12.4GHz with a nominal 10dB gain and low VSWR 1.25:1 with 3.5mm Female connector output. The model LB-90-10-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

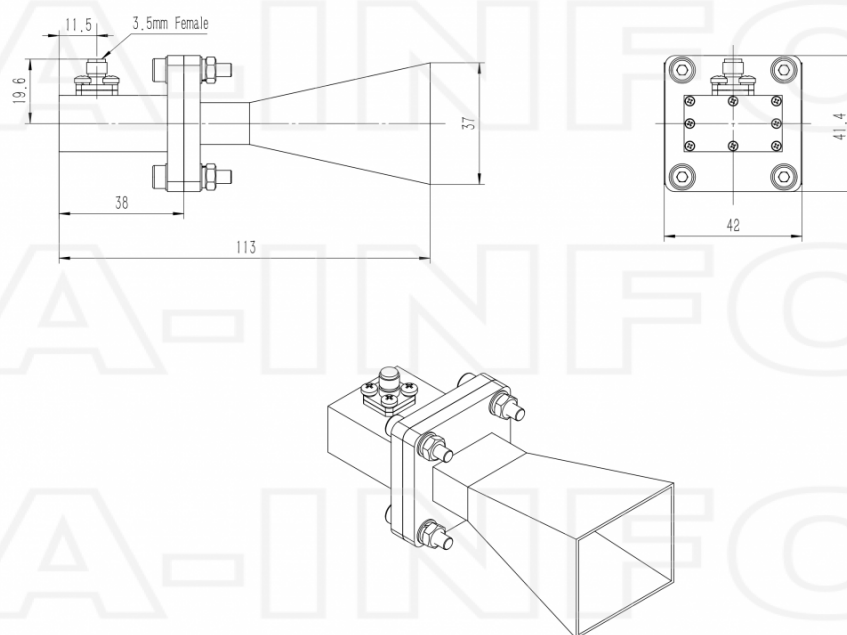
Electrical Specification		Interface	
Frequency, Min (GHz)	8.2	Output Type	Coaxial
Frequency, Max (GHz)	12.4	Connector	3.5mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR90	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	42	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	45	Size, W (mm)	42
Cross Pol. Isolation, Typ (dB)	30	Size, H (mm)	41.4
VSWR, Typ	1.25:1	Size, L (mm)	113
Impedance, (Ohm)	50	Weight, (kg)	0.1
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	100		

Additional Information

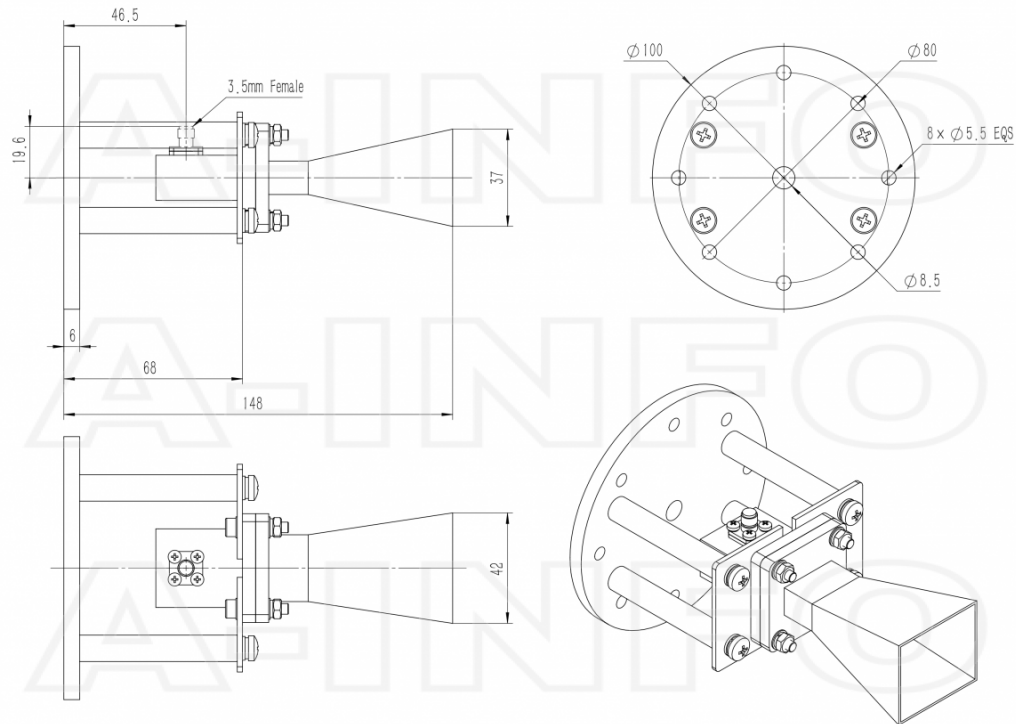
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

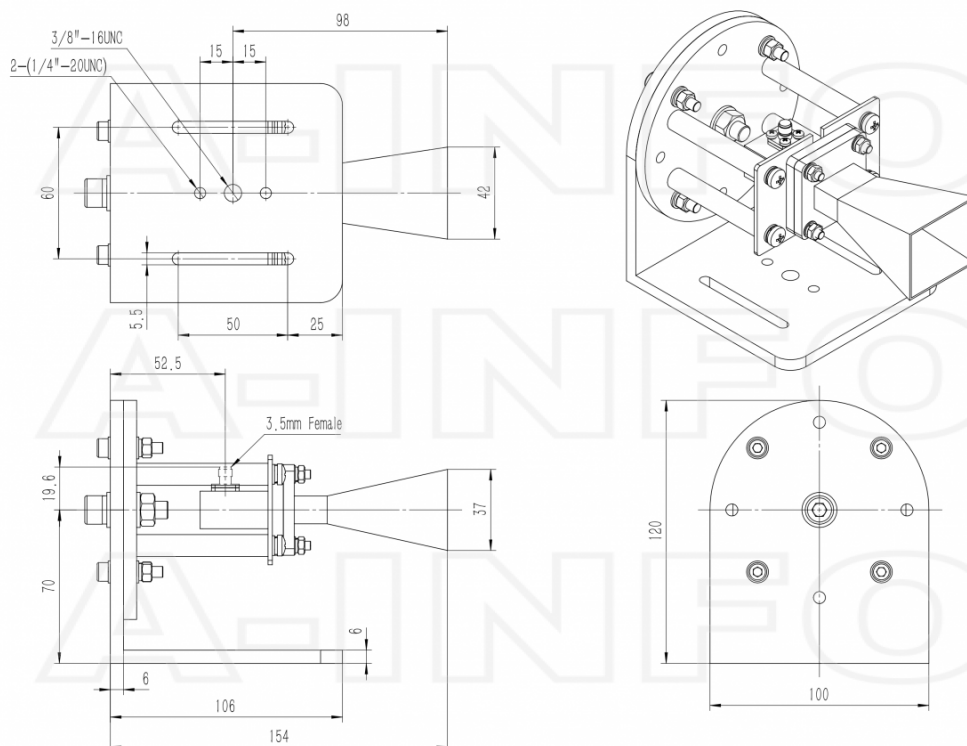
3.5mm Female Output (P/N: LB-90-10-C-3.5F)



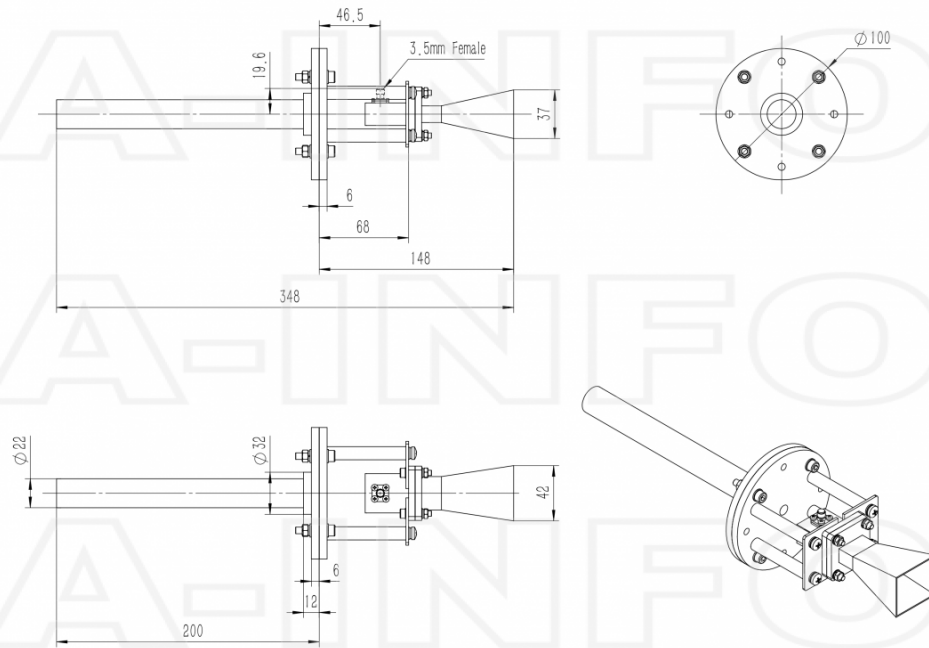
3.5mm Female Output with Round Mounting Bracket (Option, P/N: LB-90-10-C-MB)



3.5mm Female Output with L Type Mounting Bracket (Option, P/N: LB-90-10-C-MBL)

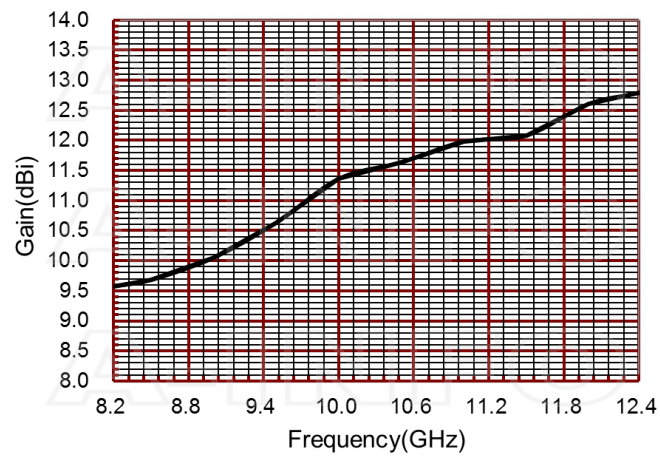


3.5mm Female Output with Stinger Type Mounting Bracket (Option, P/N: LB-90-10-C-MA)

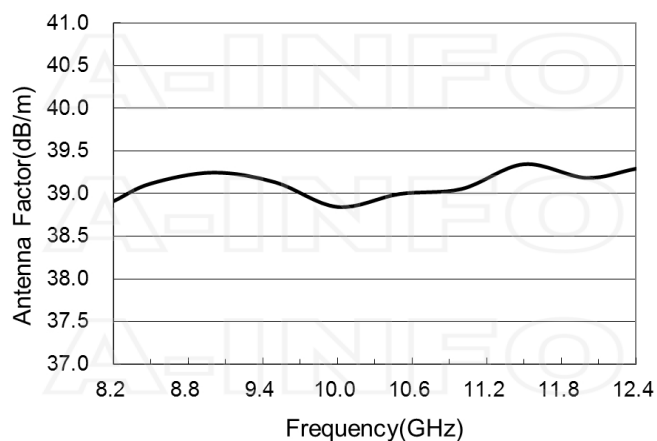


Typical Test Results

Gain



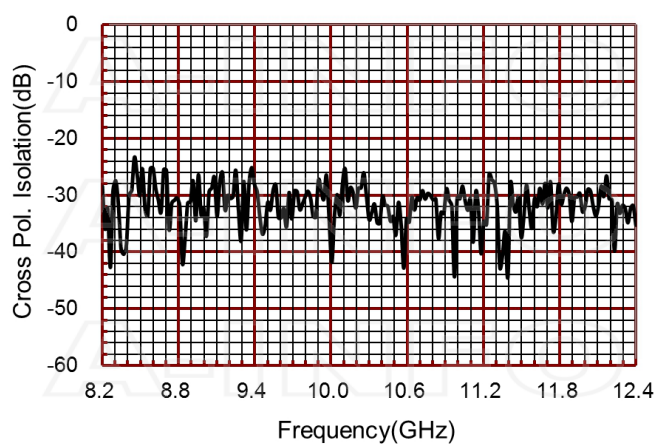
Antenna Factor



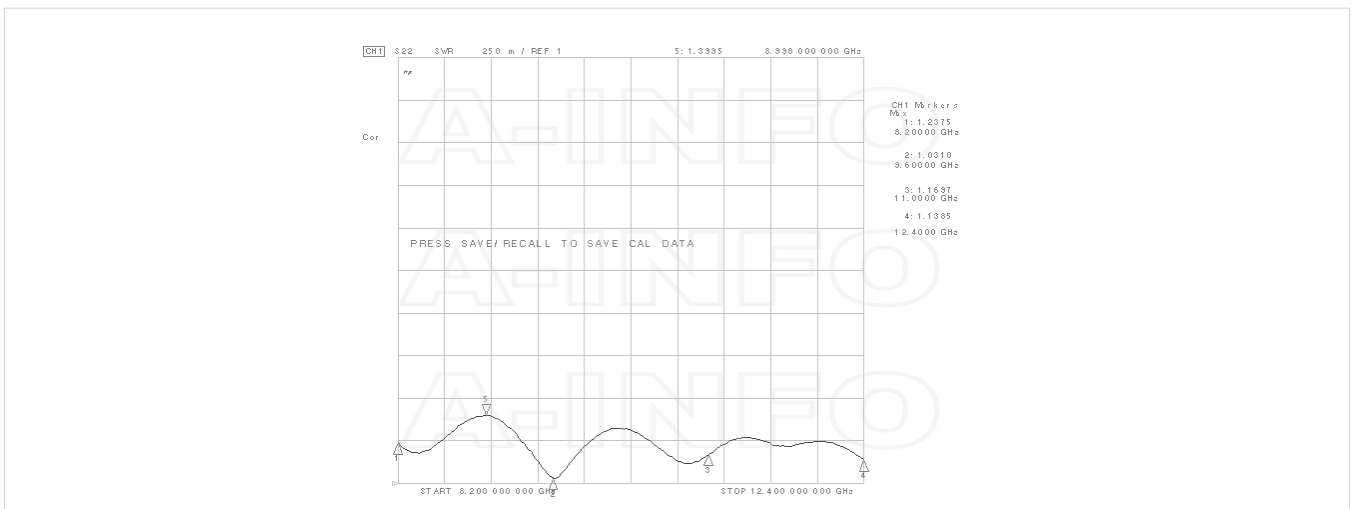
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
8.2	9.57	38.91
8.5	9.68	39.12
9.0	10.05	39.25
9.5	10.63	39.13
10.0	11.37	38.84
10.5	11.64	39.00
11.0	11.98	39.05
11.5	12.08	39.34
12.0	12.61	39.18
12.4	12.79	39.29

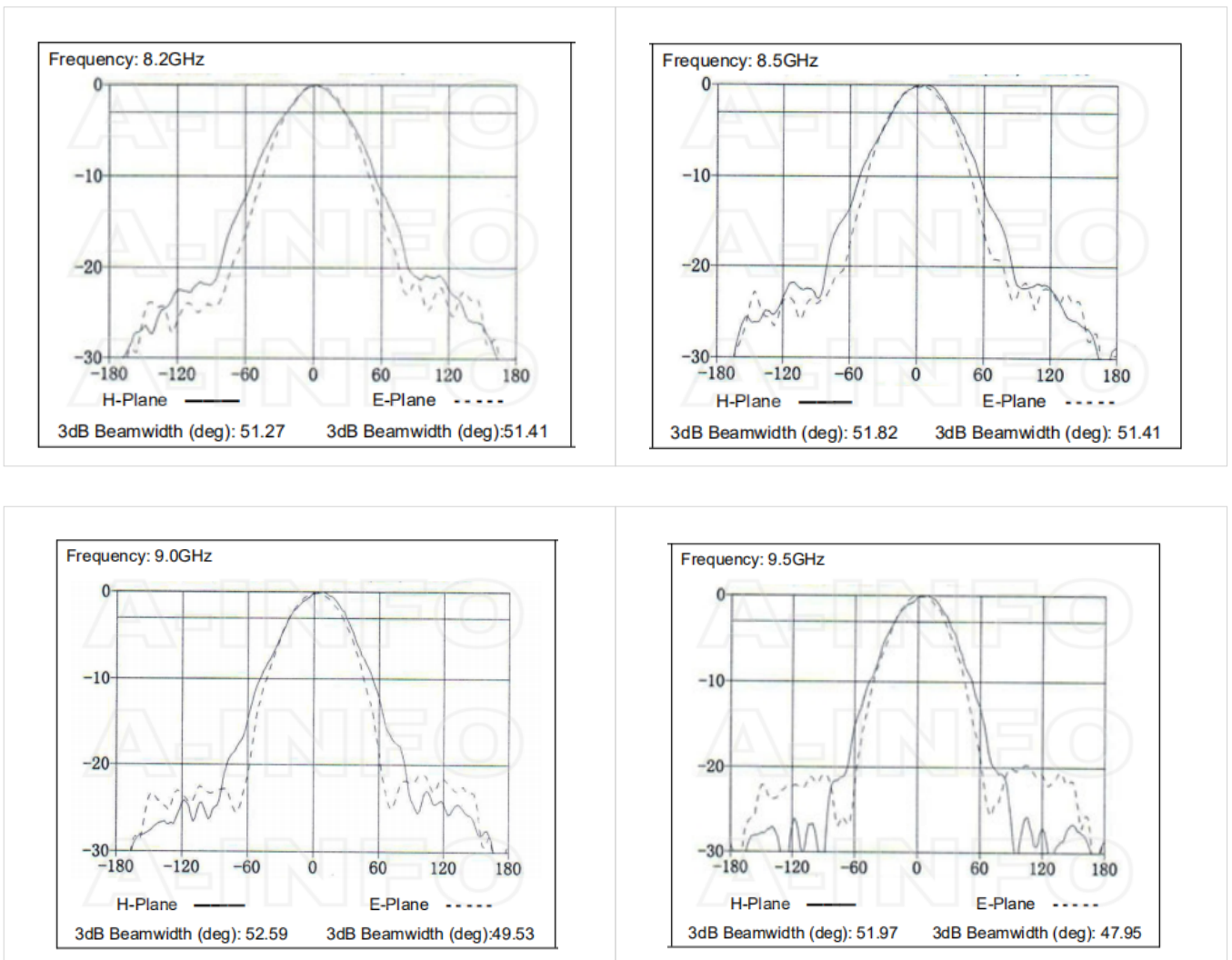
Cross Polarization Isolation

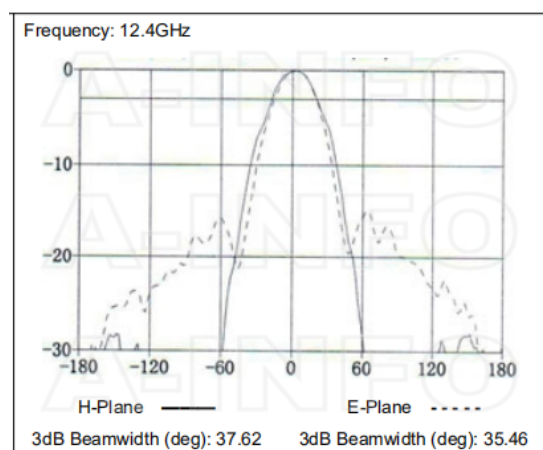
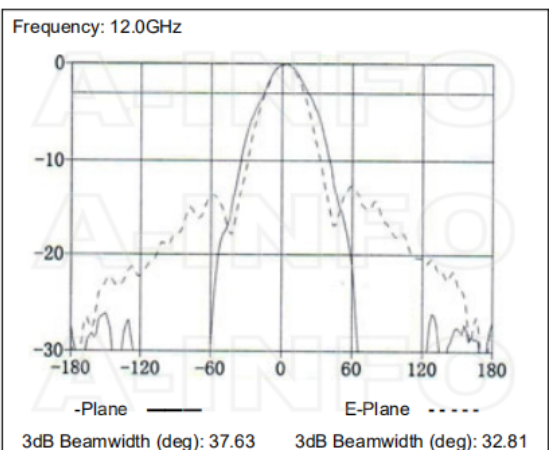
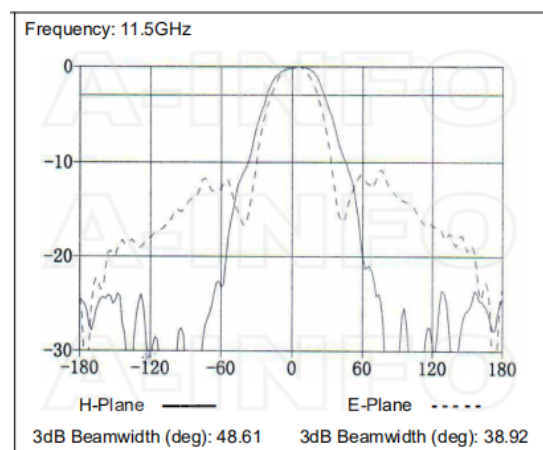
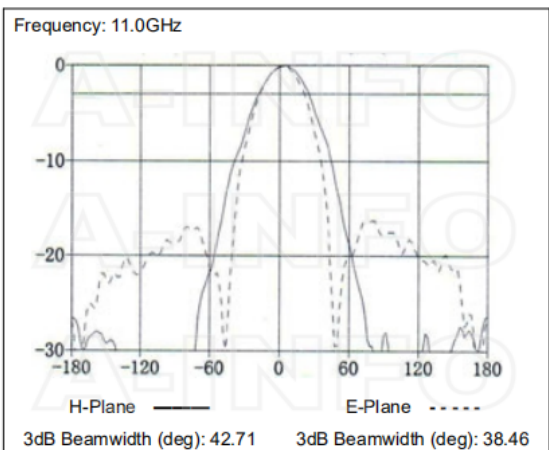
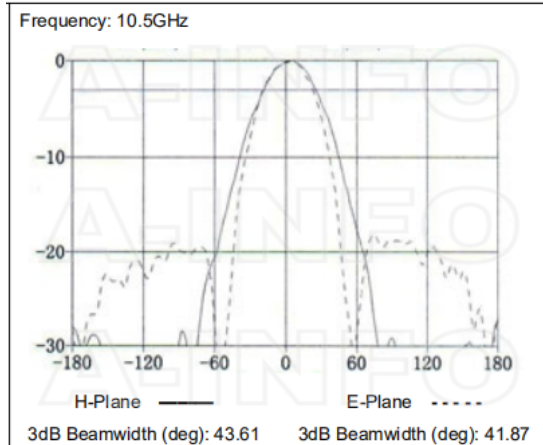
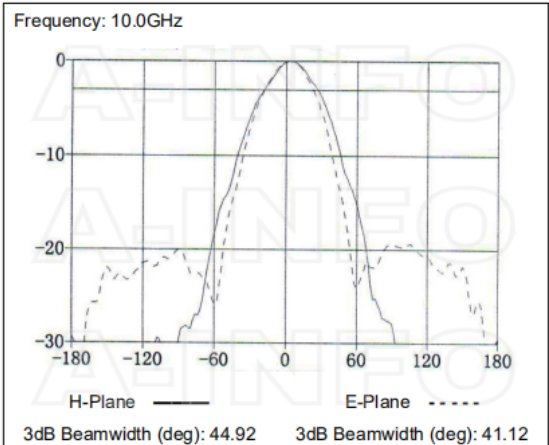


VSWR



Pattern





Related Products



LB-90-10-C-MB Round Type
Mounting Bracket



LB-90-10-C-MBL L type mounting
bracket



LB-90-10-C-MA Stinger Type
Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod
Metalfree



Carrying Case_LB-90-10-C Al
Alloy Carrying Case



M4x12 Hex_Pack WR51-WR112
Assembly Pack



M4x20 Hex_Pack WR112- WR51
Flange Assembly Pack

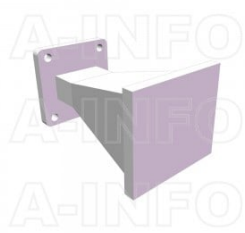


M4x30 Hex_Pack Log Periodic, DS
Assembly Pack

Similar Products



LB-90-10-A Standard Gain Horn
Antenna 8.2-12.4GHz 10dB Gain
Rectangular Waveguide Interface



LB-90-10-ASPO Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain Rectangular Waveguide
Interface



LB-90-10-C-SF Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain SMA Female



LB-90-10-C-SFSPO Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain SMA Female



LB-90-10-C-ESF Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain Endlaunch SMA Female



LB-90-10-C-NF Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain N Type Female



LB-90-10-C-NFSPO Standard
Gain Horn Antenna 8.2-12.4GHz
10dB Gain N Type Female



LB-90-10-C-TF Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain TNC Female



LB-90-10-C-TFSPO Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain TNC Female



LB-90-10-C-7 Standard Gain Horn
Antenna 8.2-12.4GHz 10dB Gain
7mm



LB-90-10-C-7SPO Standard Gain
Horn Antenna 8.2-12.4GHz 10dB
Gain 7mm



LB-90-10-C-3.5FSPO Standard
Gain Horn Antenna 8.2-12.4GHz
10dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-90-10-c-3-5f-standard-gain-horn-antenna-8-2-12-4-ghz-10db-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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