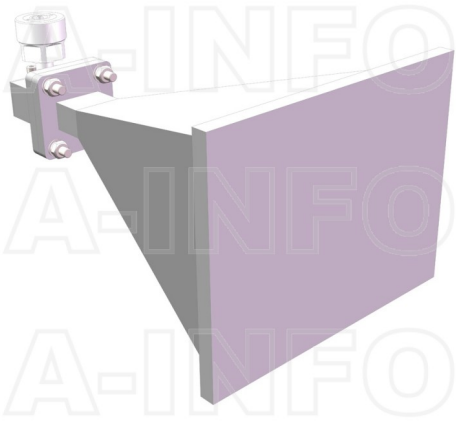




LB-90-20-C-7SPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain 7mm

Standard Gain Horn Antenna Operating From 8.2GHz to 12.4GHz With a Nominal 20dB Gain With 7mm Connector

Product Information

SKU	LB-90-20-C-7SPO	Patents	ZL201830355569.9 (China)
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Description

Standard Gain Horn Antenna LB-90-20-C-7SPO, operating from 8.2 to 12.4GHz with a nominal 20dB gain and low VSWR 1.25:1 with 7mm connector output. The model LB-90-20-C-7SPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W continuously and 3000W 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

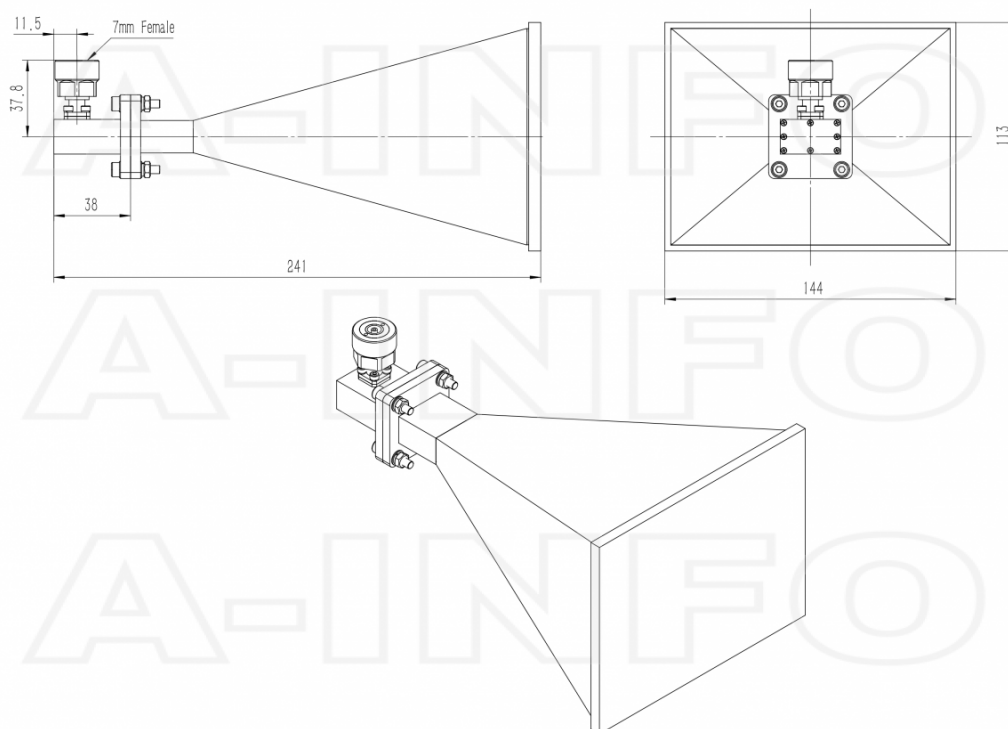
Electrical Specification		Interface	
Frequency, Min (GHz)	8.2	Output Type	Coaxial
Frequency, Max (GHz)	12.4	Connector	7mm
Waveguide Type	Rectangular	Mechanical Specification	
Waveguide Size EIA WR	WR90	Figure	C Type
Gain, Typ (dBi)	20	Body Material	Al
Polarization	Linear	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Typ (Deg.)	14	Size, W (mm)	144
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Size, H (mm)	113
Cross Pol. Isolation, Typ (dB)	45	Size, L (mm)	241
VSWR, Typ	1.25:1	Weight, (kg)	0.52
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

Additional Information

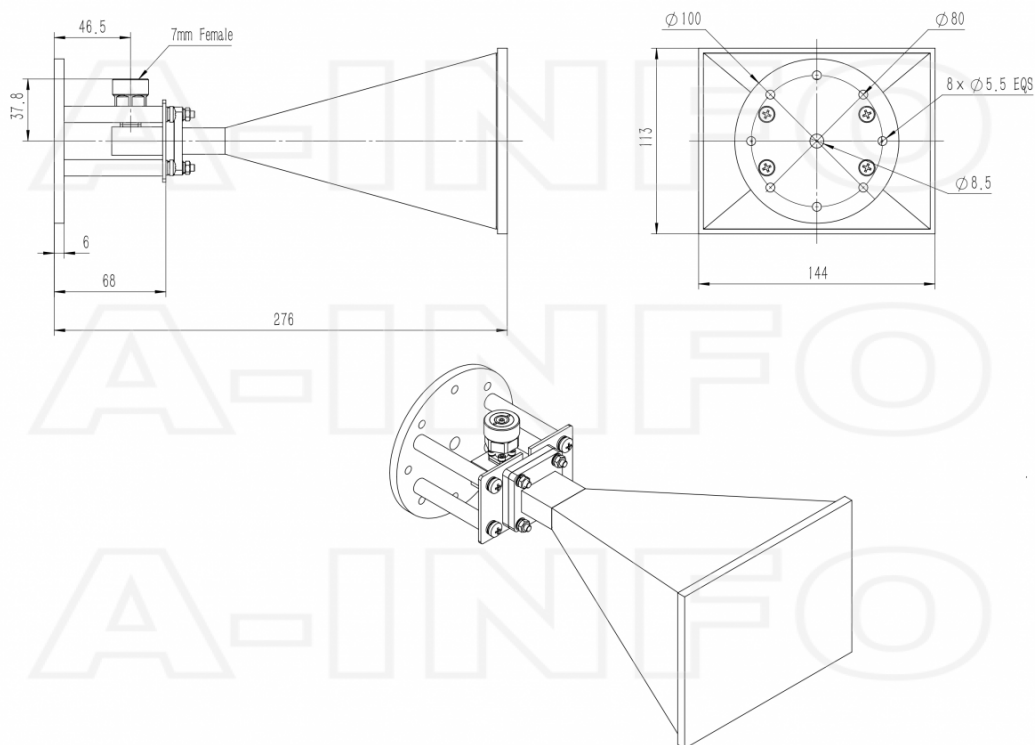
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

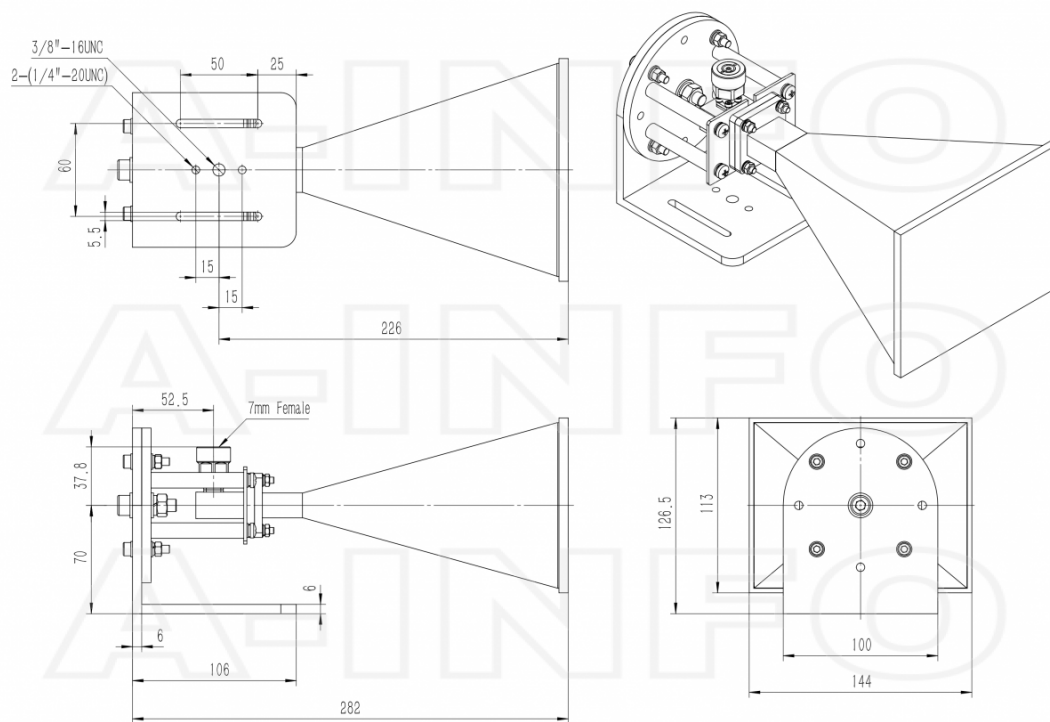
7mm Female Output with Radome (Option, P/N: LB-90-20-C-7SPO, Outdoor Application)



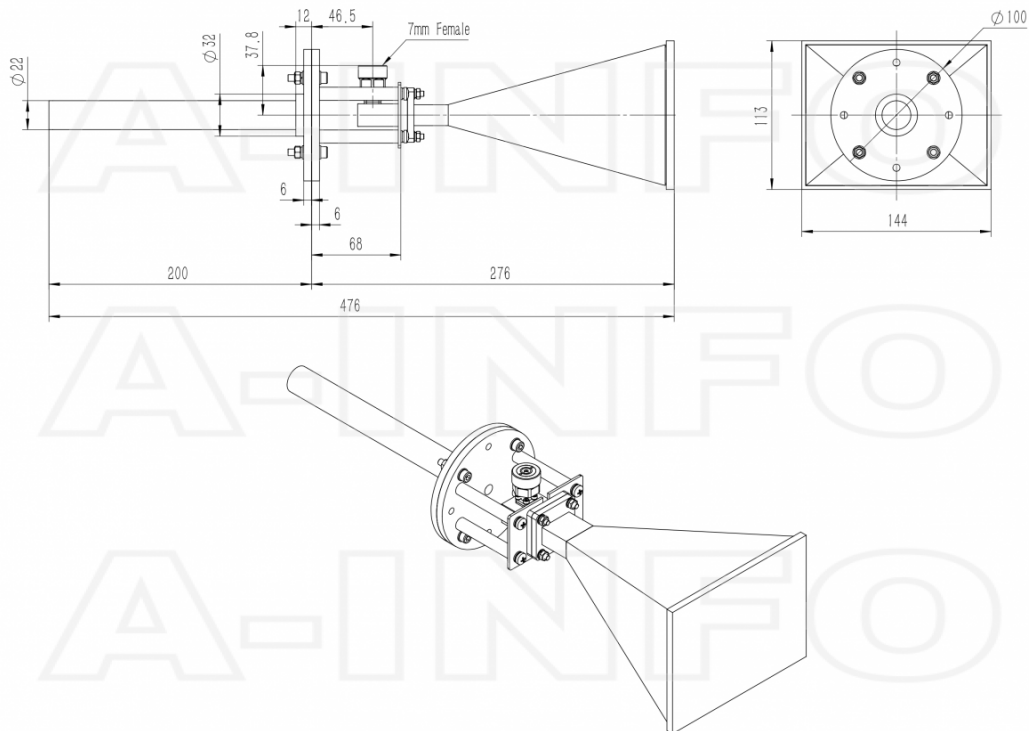
7mm Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MB & LB-90-20-C-7SPO, Outdoor Application)



7mm Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MBL & LB-90-20-C-7SPO, Outdoor Application)

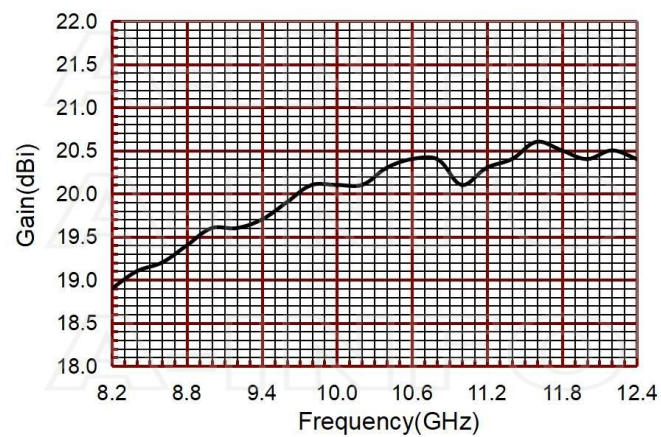


7mm Output with Stinger Type Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MA & LB-90-20-C-7SPO, Outdoor Application)

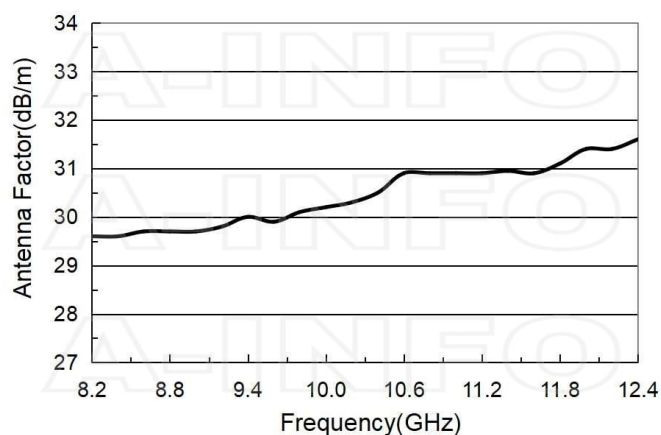


Typical Test Results

Gain



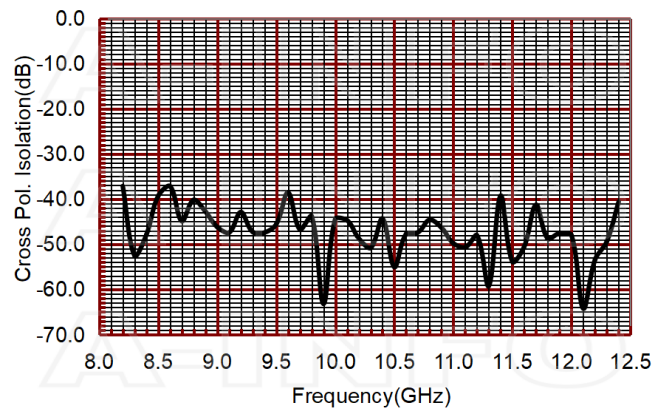
Antenna Factor



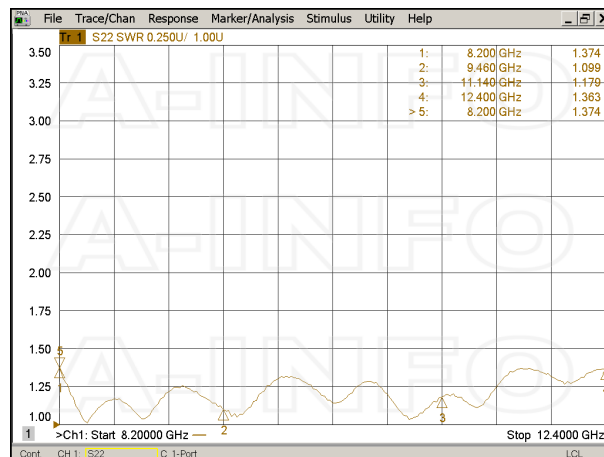
Antenna Factor (Table)

Frequency(GHz)	Gain(dB)	Antenna Factor(dB/m)
8.20	18.90	29.60
8.40	19.10	29.60
8.60	19.20	29.70
8.80	19.40	29.70
9.00	19.60	29.70
9.20	19.60	29.80
9.40	19.70	30.00
9.60	19.90	29.90
9.80	20.10	30.10
10.00	20.10	30.20
10.20	20.10	30.30
10.40	20.30	30.50
10.60	20.40	30.90
10.80	20.40	30.90
11.00	20.10	30.90
11.20	20.30	30.90
11.40	20.40	30.95
11.60	20.60	30.90
11.80	20.50	31.10
12.00	20.40	31.40
12.20	20.50	31.40
12.40	20.4	31.6

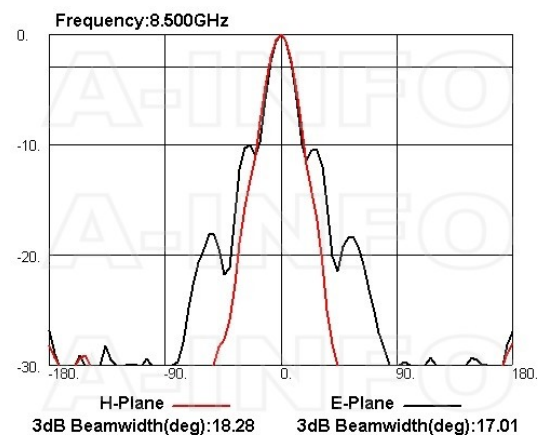
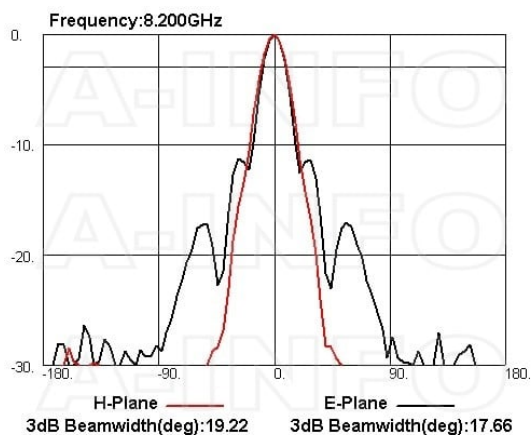
Cross Polarization Isolation

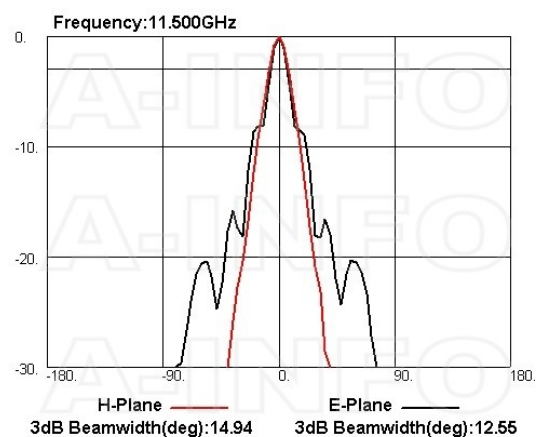
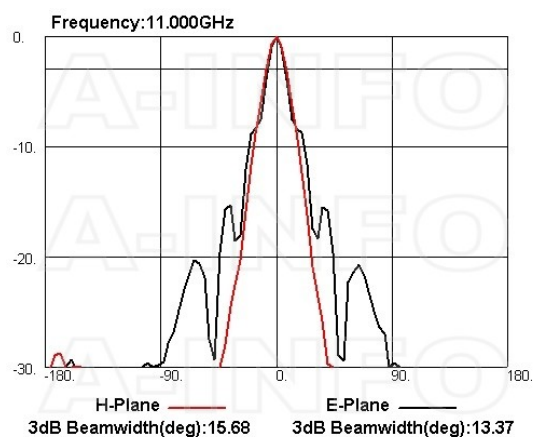
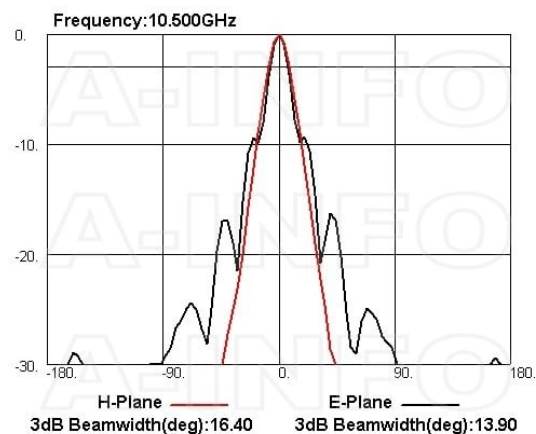
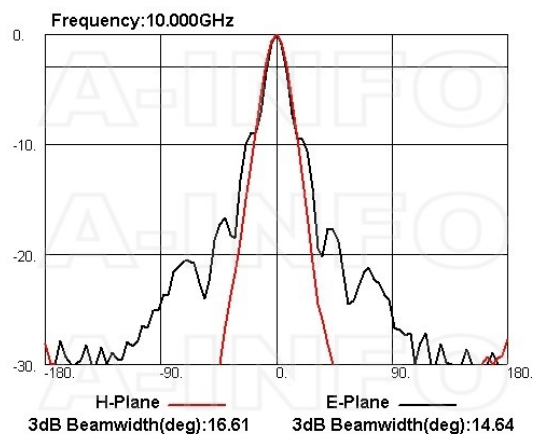
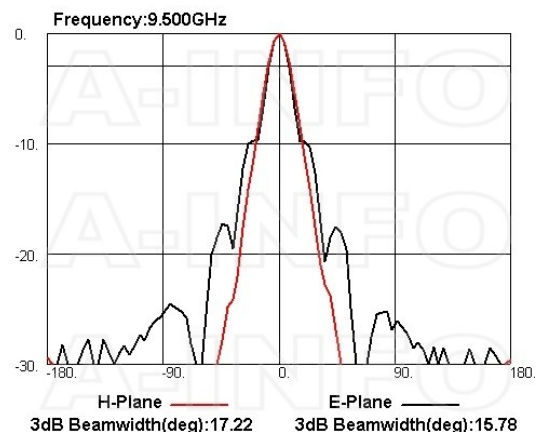
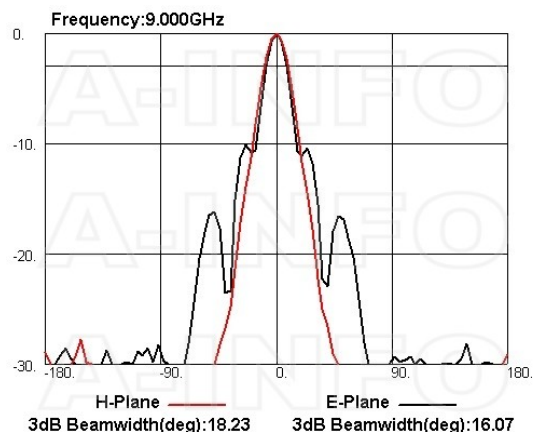


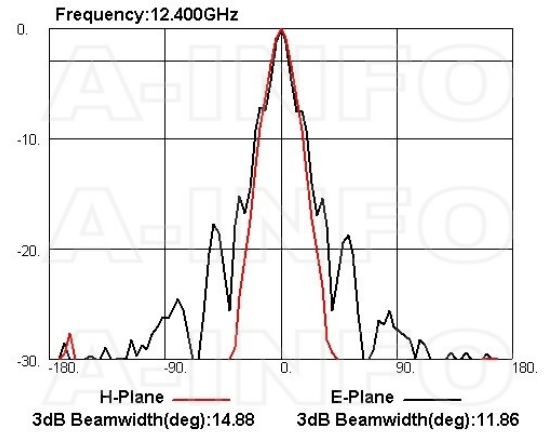
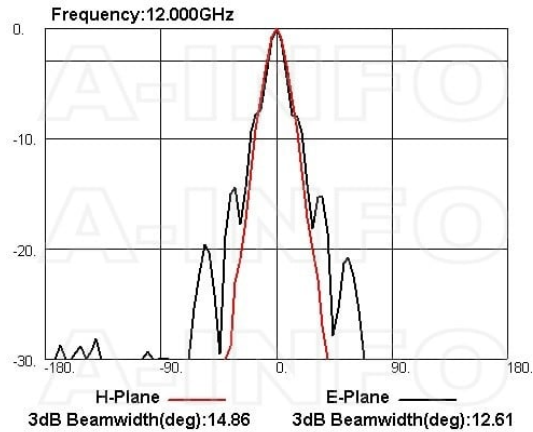
VSWR



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-90-20-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-90-20-A Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain Rectangular Waveguide Interface



LB-90-20-ASPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain Rectangular Waveguide Interface



LB-90-20-C-SF Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain SMA Female



LB-90-20-C-SFSPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain SMA Female



LB-90-20-C-NF Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain N Type Female



LB-90-20-C-NFSPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain N Type Female



LB-90-20-C-TF Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain TNC Female



LB-90-20-C-TFSPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain TNC Female



LB-90-20-C-7 Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain 7mm



LB-90-20-C-3.5F Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain 3.5mm Female



LB-90-20-C-3.5FSPO Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain 3.5mm Female

About this Datasheet

• Product Information

Product Link:
<https://www.ainfoinc.com/lb-90-20-c-7spo-standard-gain-horn-antenna-8-2-12-4-ghz-20db-gain-7mm>
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