



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

Standard Gain Horn Antenna Operating From 8.2GHz to 12.4GHz With a
Nominal 20dB Gain With 3.5mm Female Connector

Product Information

SKU	LB-90-20-C-3.5FSPO	Patents	ZL201830355569.9 (China)
-----	--------------------	---------	--------------------------

Description

Standard Gain Horn Antenna LB-90-20-C-3.5FSPO, operating from 8.2 to 12.4GHz with a nominal 20dB gain and low VSWR 1.25:1 with 3.5mm Female connector output. The model LB-90-20-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

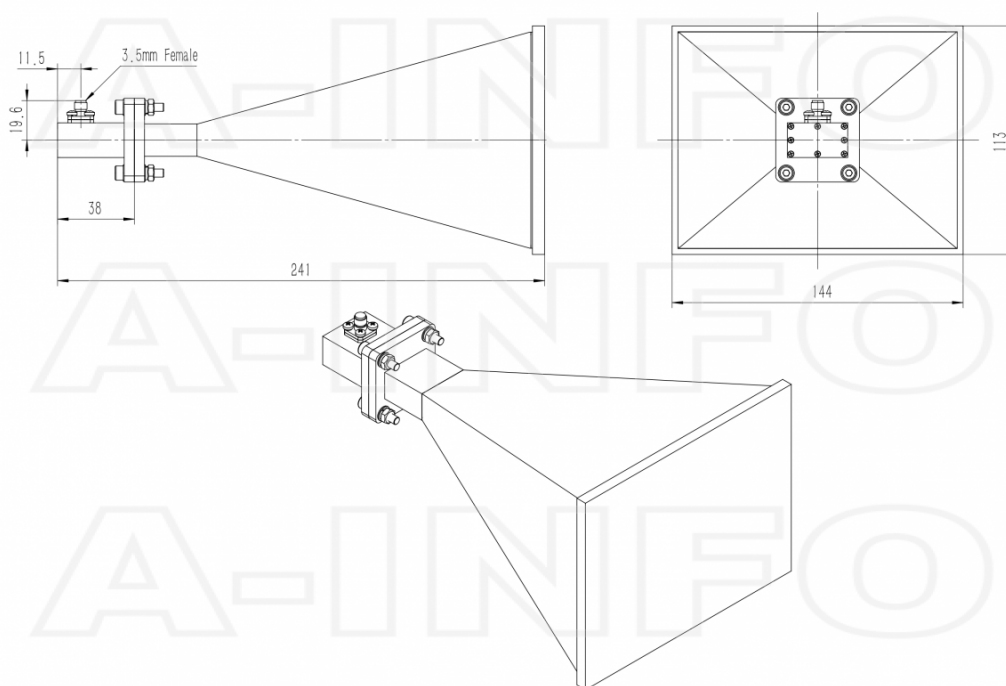
Electrical Specification		Interface	
Frequency, Min (GHz)	8.2	Output Type	Coaxial
Frequency, Max (GHz)	12.4	Connector	3.5mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR90	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	14	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Size, W (mm)	144
Cross Pol. Isolation, Typ (dB)	45	Size, H (mm)	113
VSWR, Typ	1.25:1	Size, L (mm)	241
Impedance, (Ohm)	50	Weight, (kg)	0.47
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	100		

Additional Information

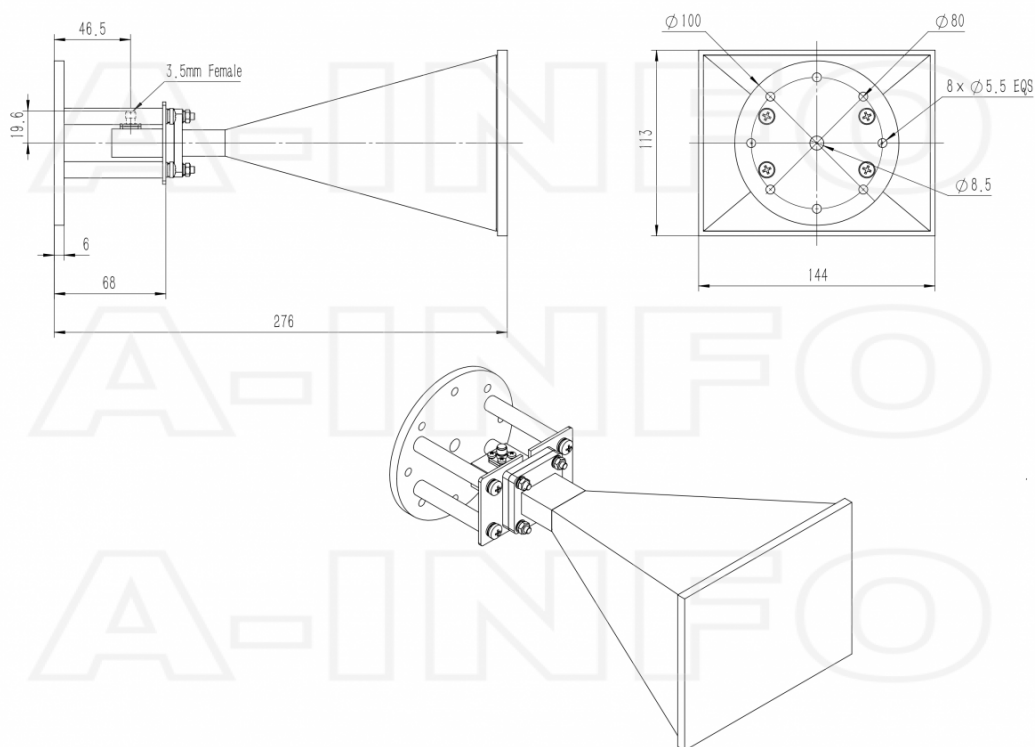
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	--	--------------	---

Outline Drawing

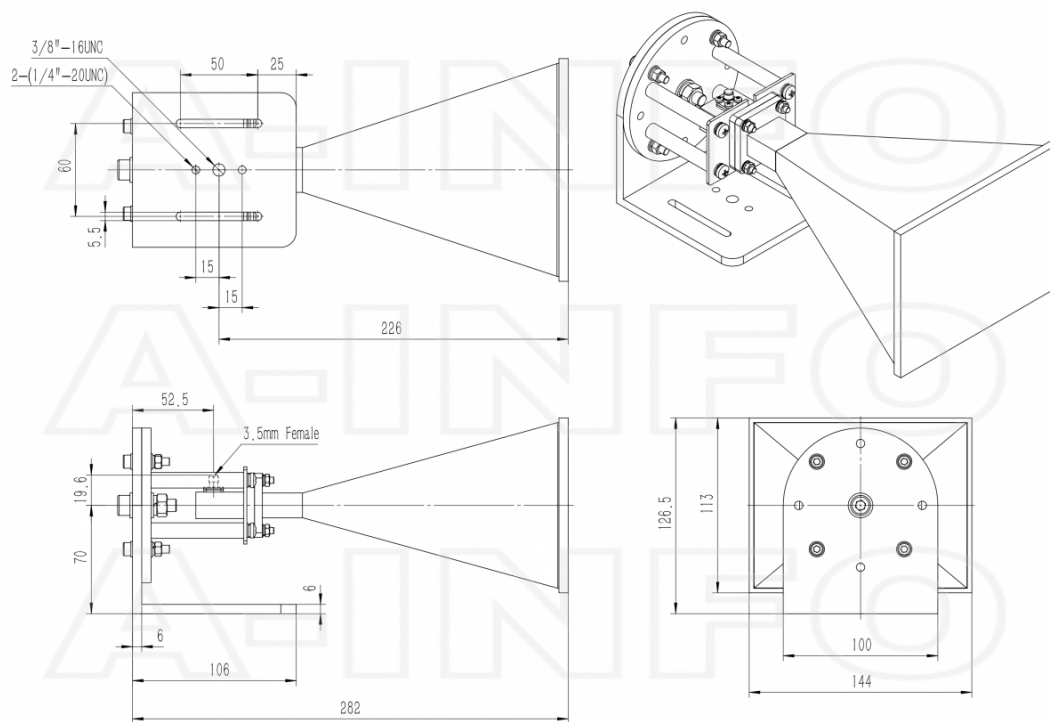
3.5mm Female Output with Radome (Option, P/N: LB-90-20-C-3.5FSPO, Outdoor Application)



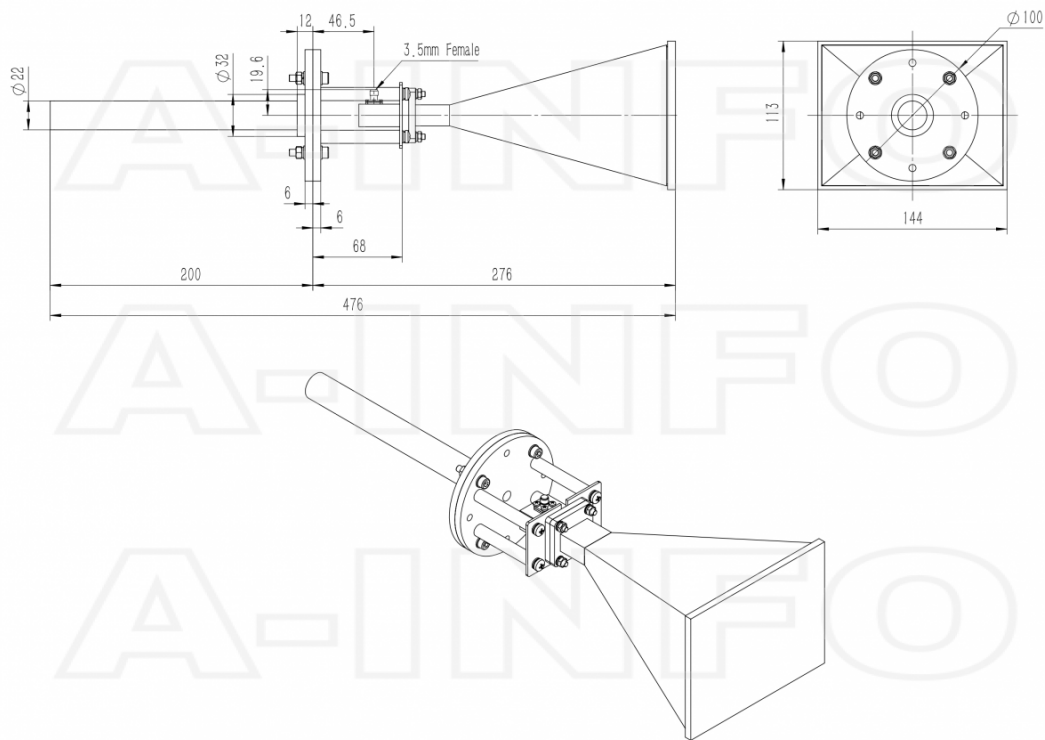
3.5mm Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MB & LB-90-20-C-3.5FSPO, Outdoor Application)



3.5mm Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MBL & LB-90-20-C-3.5FSPO, Outdoor Application)

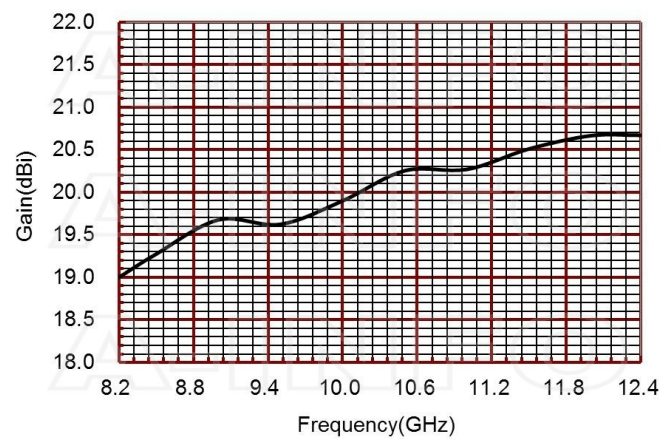


3.5mm Female Output with Stinger Type Mounting Bracket & Radome (Option, P/N: LB-90-10-C-MA & LB-90-20-C-3.5FSPO, Outdoor Application)

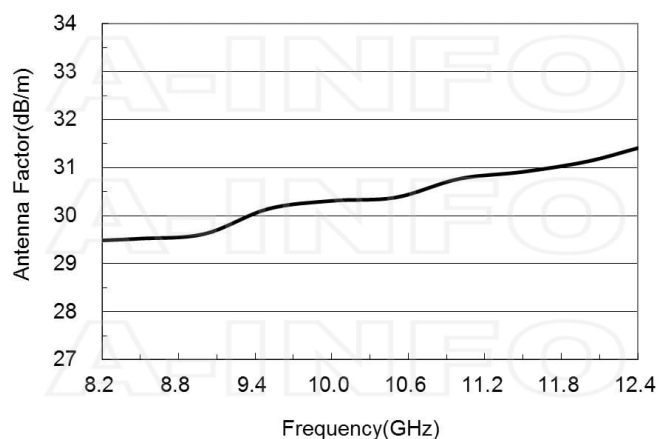


Typical Test Results

Gain



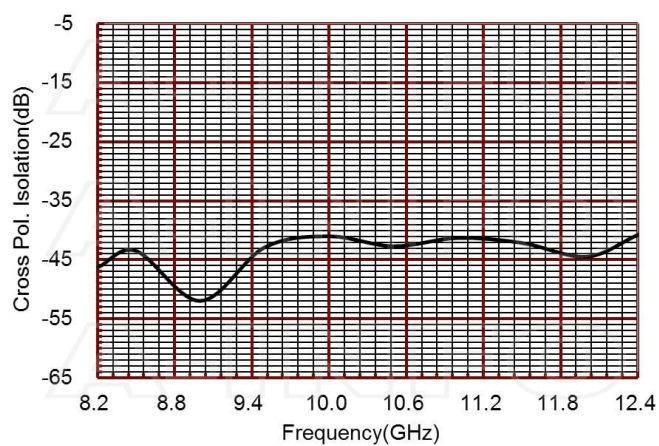
Antenna Factor



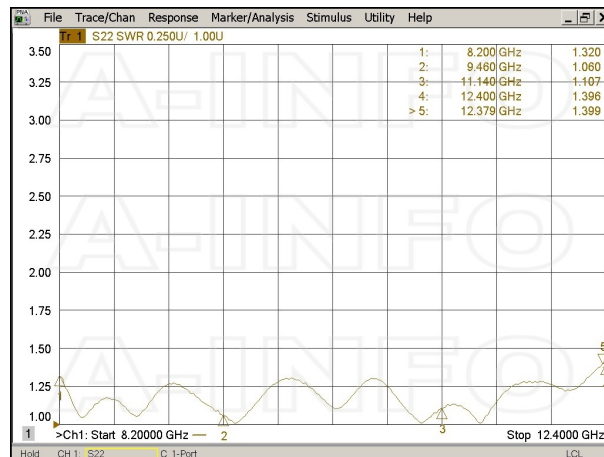
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
8.2	19.00	29.49
8.5	19.27	29.52
9.0	19.68	29.62
9.5	19.62	30.14
10.0	19.90	30.31
10.5	20.25	30.38
11.0	20.27	30.77
11.5	20.51	30.91
12.0	20.67	31.13
12.4	20.67	31.41

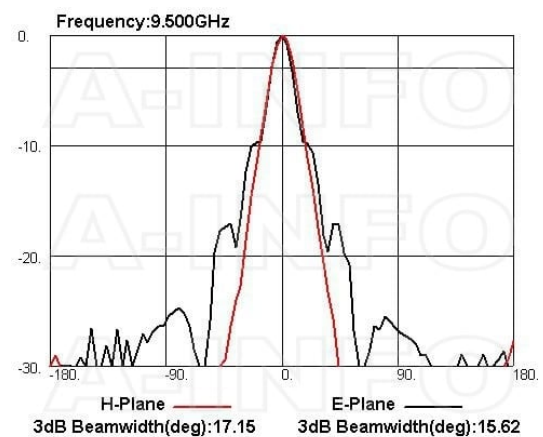
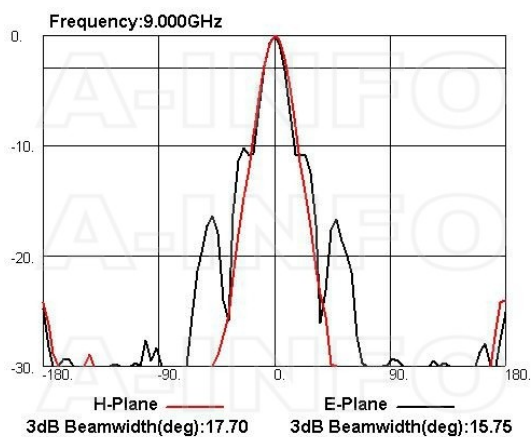
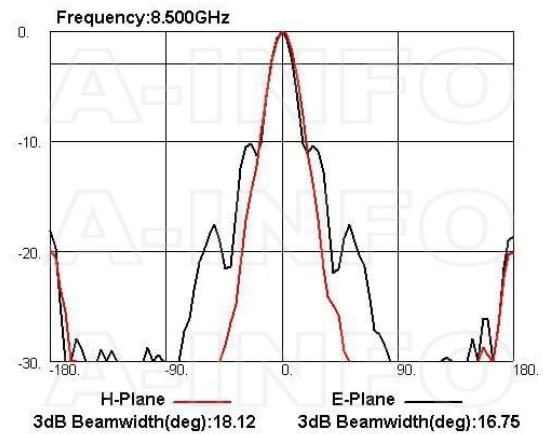
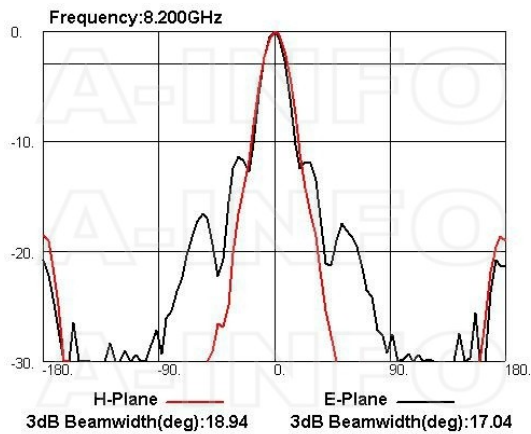
Cross Polarization Isolation

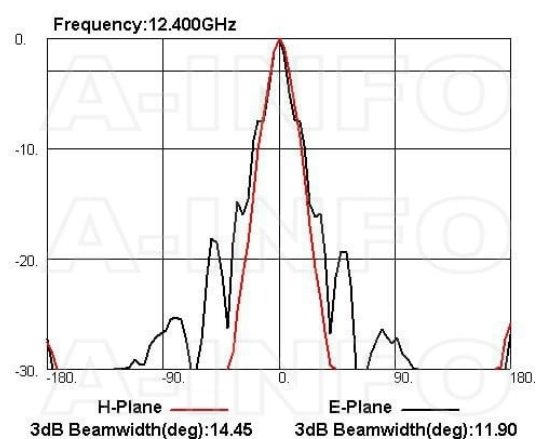
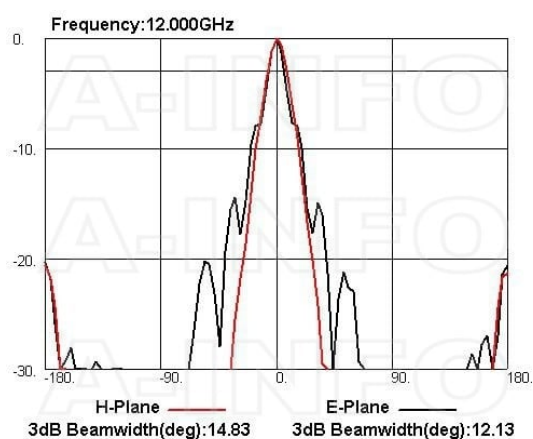
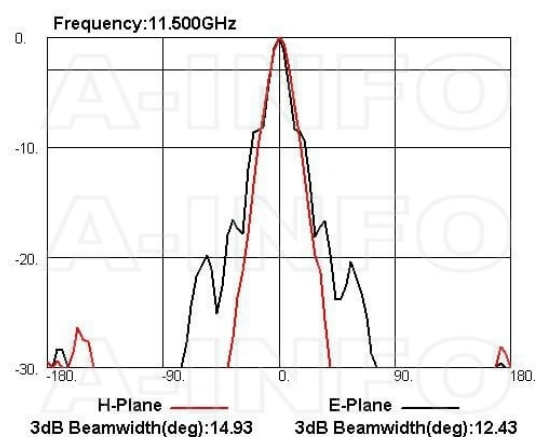
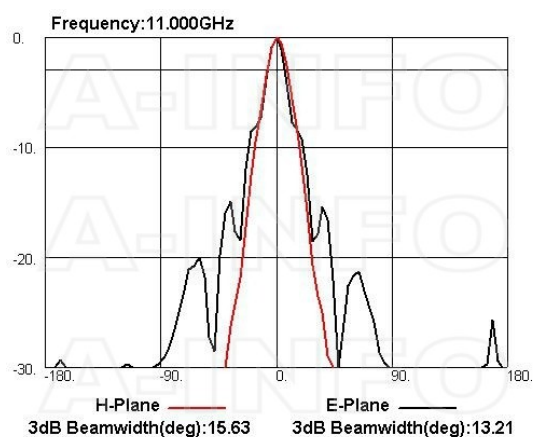
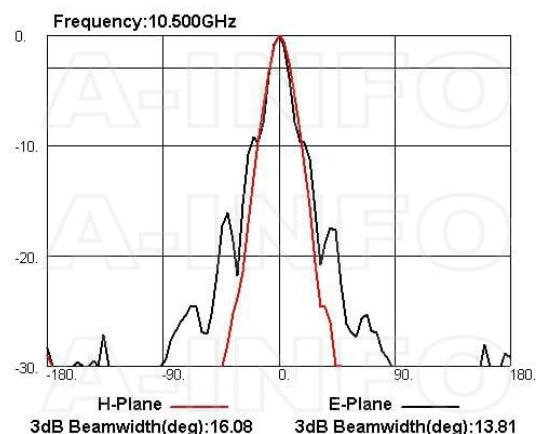
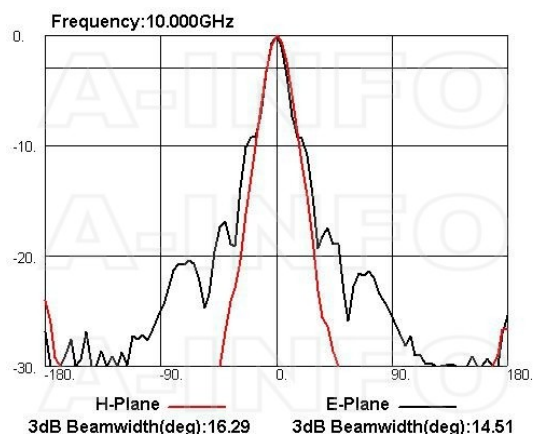


VSWR



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

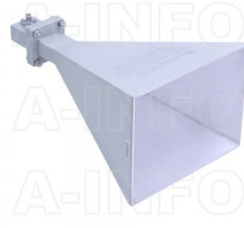
Similar Products



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



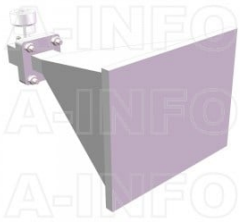
LB-90-20-C-TF Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain TNC Female



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-7SPO 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

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-90-20-c-3-5fspo-standard-gain-horn-antenna-8-2-12-4-ghz-20db-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
--	---	--