



LB-159-20-C-NFSPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain N Type Female

Standard Gain Horn Antenna Operating From 4.9GHz to 7.05GHz With a Nominal 20dB Gain With N Type Female Connector

Product Information

SKU	LB-159-20-C-NFSPO
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Description

Standard Gain Horn Antenna LB-159-20-C-NFSPO, operating from 4.9 to 7.05GHz with a nominal 20dB gain and low VSWR 1.25:1 with N Type Female connector output. The model LB-159-20-C-NFSPO 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

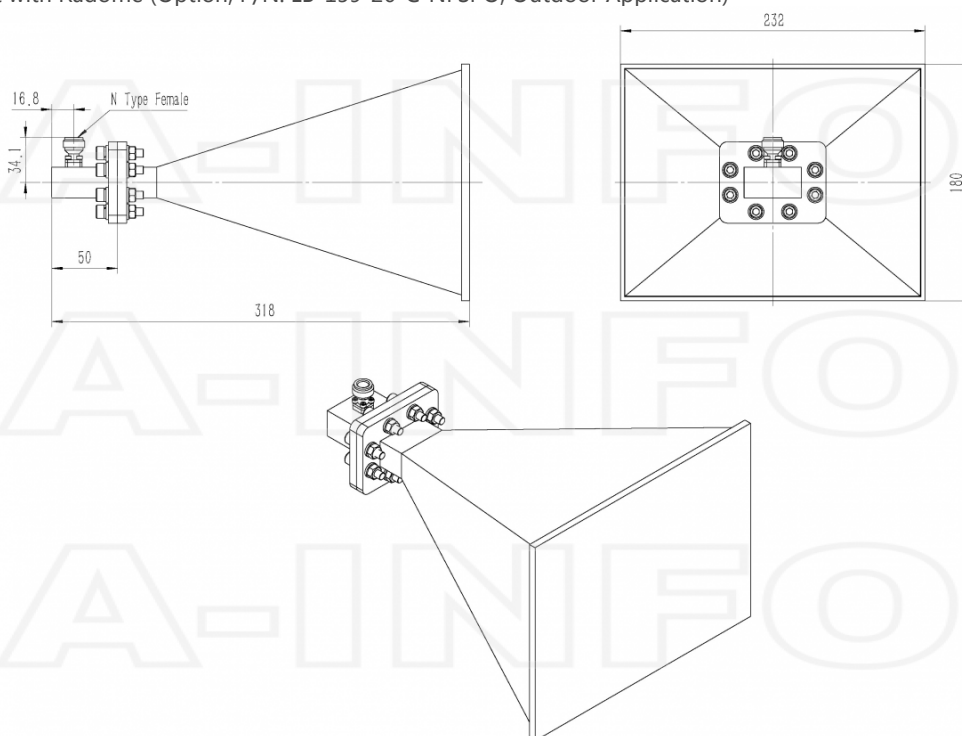
Electrical Specification		Interface	
Frequency, Min (GHz)	4.9	Output Type	Coaxial
Frequency, Max (GHz)	7.05	Connector	N Type
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR159	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Size, W (mm)	232
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	180
VSWR, Typ	1.25:1	Size, L (mm)	318
Impedance, (Ohm)	50	Weight, (kg)	1.04
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

Additional Information

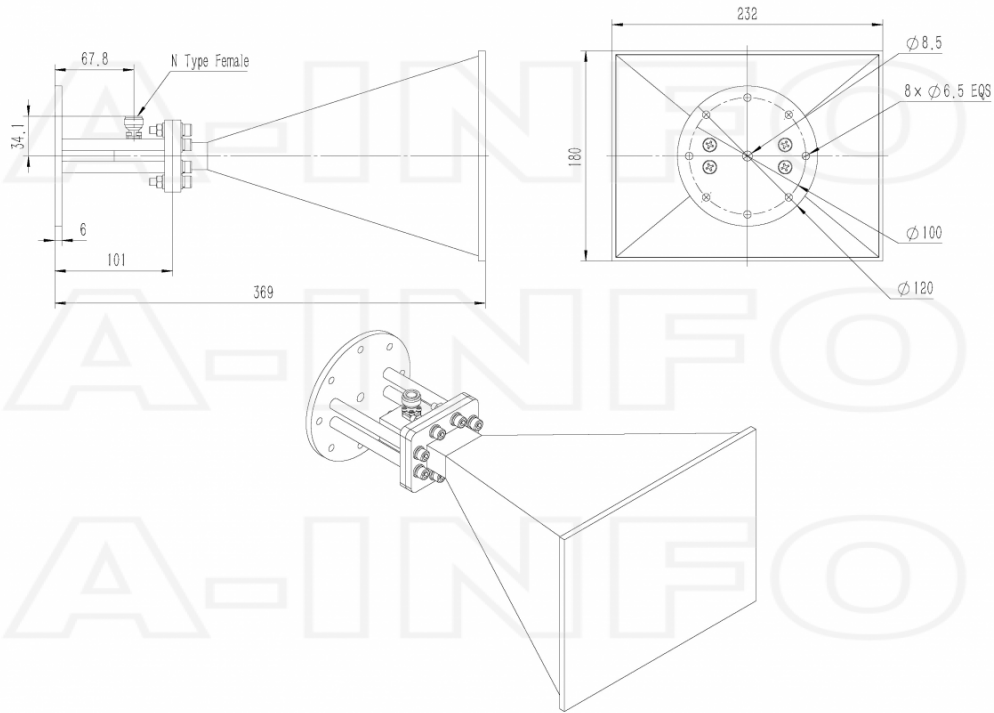
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

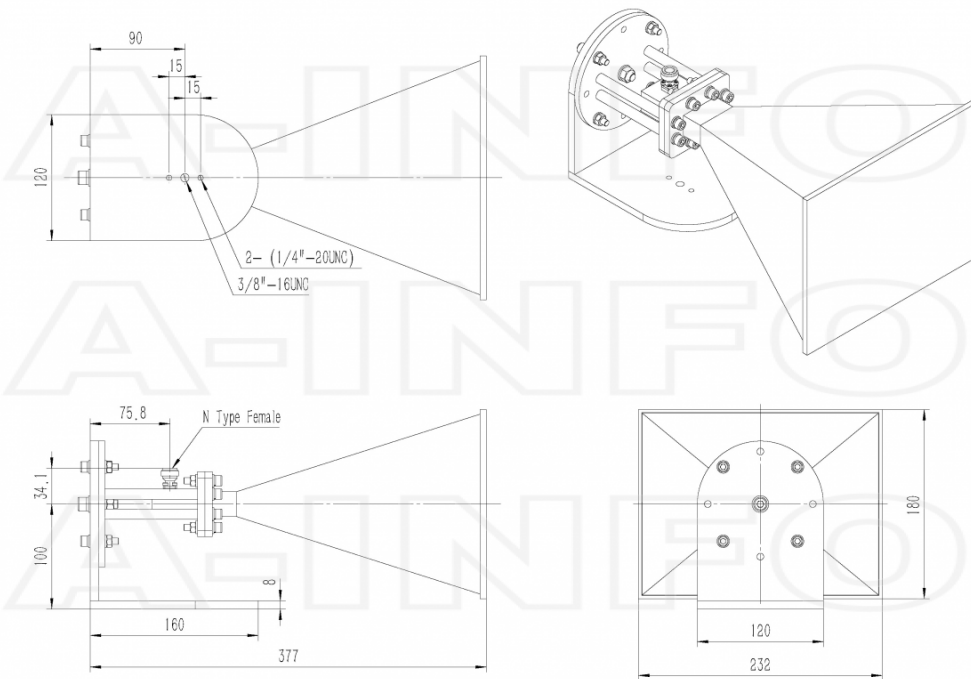
N-Female Output with Radome (Option, P/N: LB-159-20-C-NFSPO, Outdoor Application)



N-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-159-10-C-MB & LB-159-20-C-NFSPO, Outdoor Application)

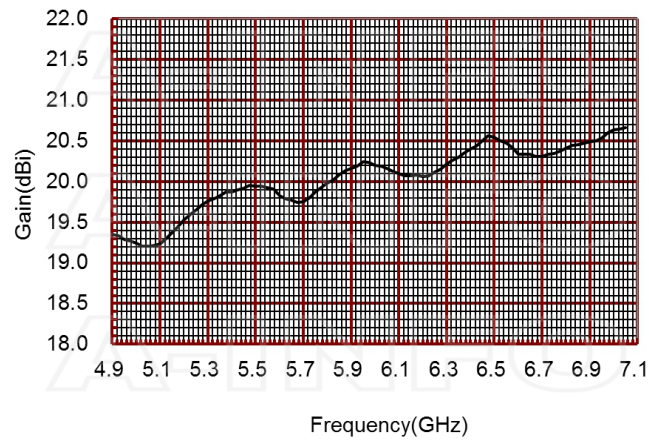


N-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-159-10-C-MBL & LB-159-20-C-NFSPO, Outdoor Application)

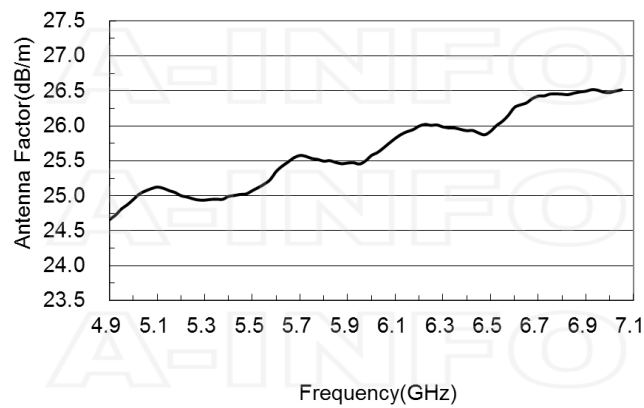


Typical Test Results

Gain



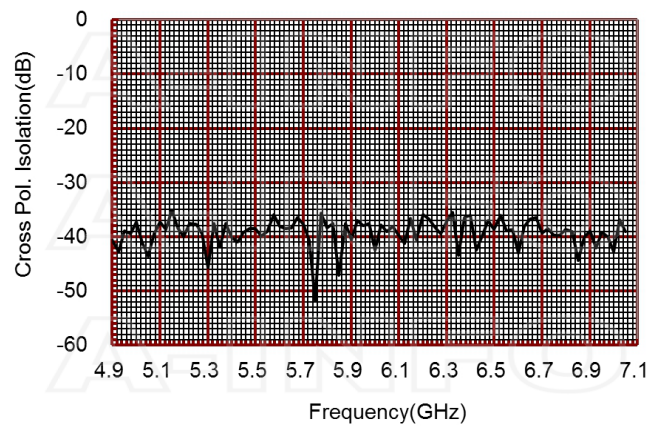
Antenna Factor



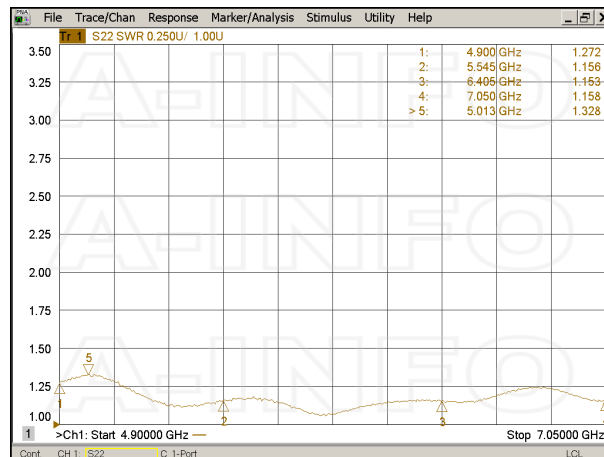
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
4.90	19.35	24.66		6.10	20.10	25.82
5.00	19.24	24.95		6.20	20.06	26.00
5.10	19.24	25.12		6.30	20.21	25.98
5.20	19.53	25.00		6.40	20.40	25.93
5.30	19.76	24.94		6.50	20.55	25.92
5.40	19.87	24.99		6.60	20.34	26.26
5.50	19.94	25.07		6.70	20.31	26.43
5.60	19.83	25.35		6.80	20.41	26.45
5.70	19.75	25.58		6.90	20.49	26.50
5.80	19.98	25.50		7.00	20.64	26.48
5.90	20.16	25.47		7.05	20.66	26.52
6.00	20.20	25.58				

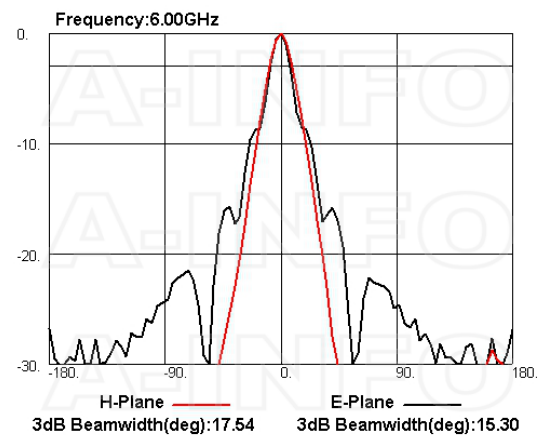
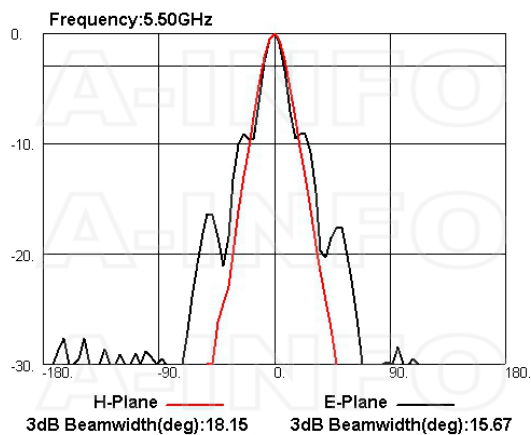
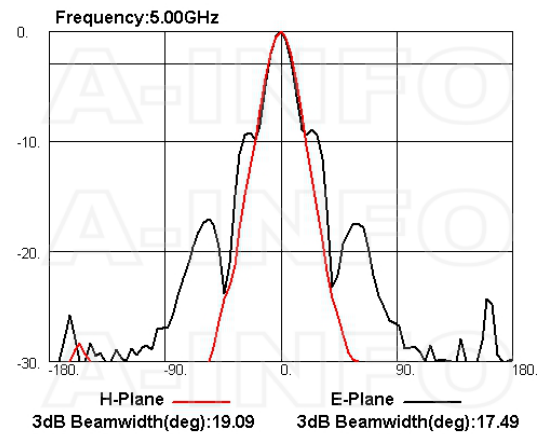
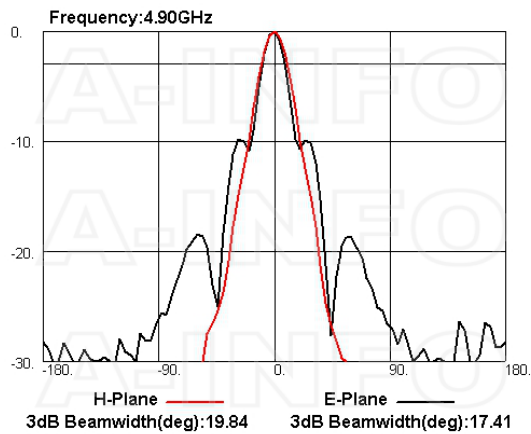
Cross Polarization Isolation

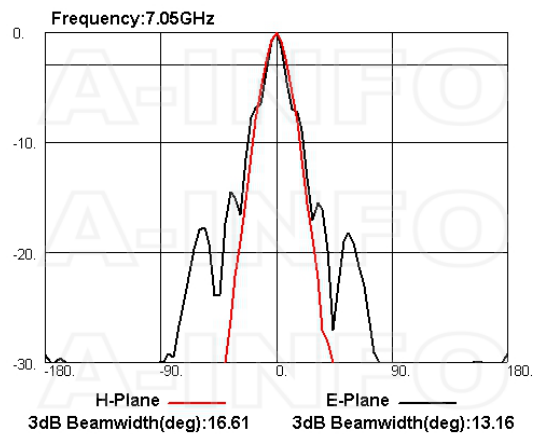
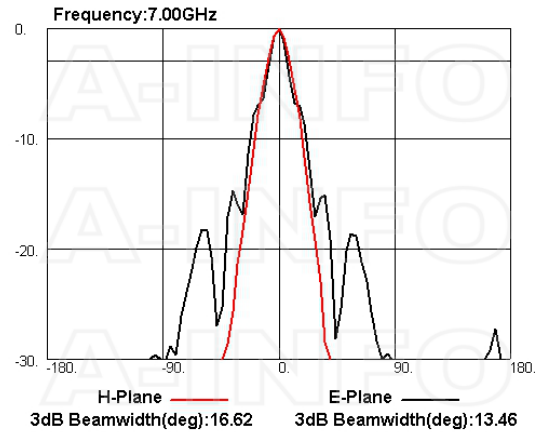
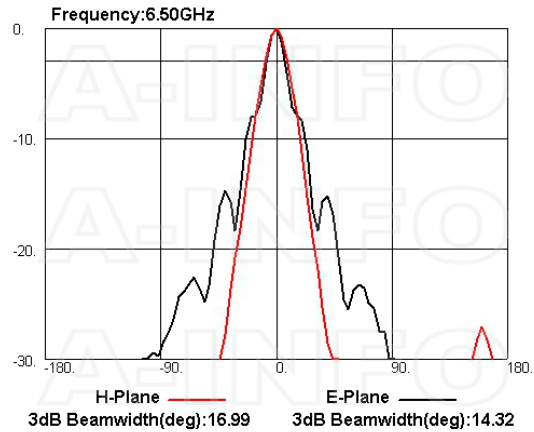


VSWR



Pattern





Related Products



LB-159-10-C-MB Round Type Mounting Bracket



LB-159-10-C-MBL L type mounting bracket



Carrying Case_LB-159-20-C AI Alloy Carrying Case



NM-NM-A050-1000 Flexible Cable Assembly 1000mm DC-18GHz N Male to N Male



NM-NM-A050-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A050-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A050-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A050-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A050-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



NM-NM-A050-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male



NM-NM-A100-500 Flexible Cable Assembly 500mm DC-18GHz N Male to N Male



NM-NM-A100-1000 Flexible Cable Assembly 1000mm DC-18GHz N Male to N Male



NM-NM-A100-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A100-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A100-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A100-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

Similar Products



LB-159-20-A Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain Rectangular Waveguide Interface



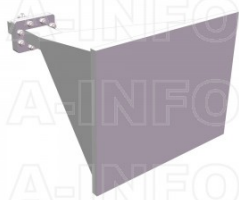
LB-159-20-ASPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain Rectangular Waveguide Interface



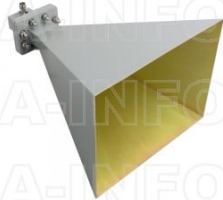
LB-159-20-C-NF Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain N Type Female



LB-159-20-C-SF Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain SMA Female



LB-159-20-C-SFSPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain SMA Female



LB-159-20-C-TF Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain TNC Female



LB-159-20-C-TFSPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain TNC Female



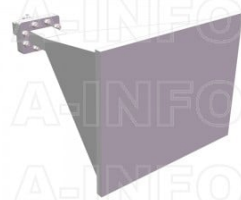
LB-159-20-C-7 Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain 7mm



LB-159-20-C-7SPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain 7mm



LB-159-20-C-3.5F Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain 3.5mm Female



LB-159-20-C-3.5FSPO Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain 3.5mm Female

About this Datasheet

• Product Information

Product Link:
<https://www.ainfoinc.com/lb-159-20-c-nfspo-standard-gain-horn-antenna-4-9-7-05-ghz-20db-gain-n-type-female>
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