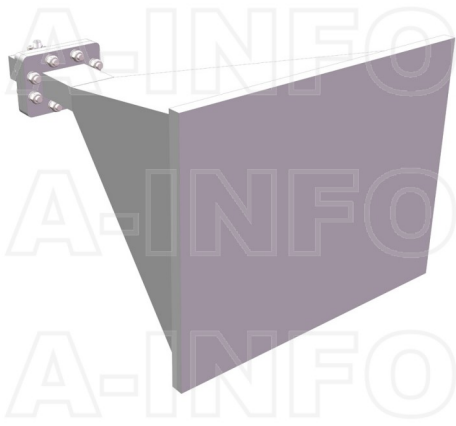




LB-159-20-C-SFSP0 Standard Gain Horn Antenna 4.9-7.05GHz 20dB Gain SMA Female

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

Product Information

SKU	LB-159-20-C-SFSP0
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Description

Standard Gain Horn Antenna LB-159-20-C-SFSP0, operating from 4.9 to 7.05GHz with a nominal 20dB gain and low VSWR 1.25:1 with SMA Female connector output. The model LB-159-20-C-SFSP0 has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 50W 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

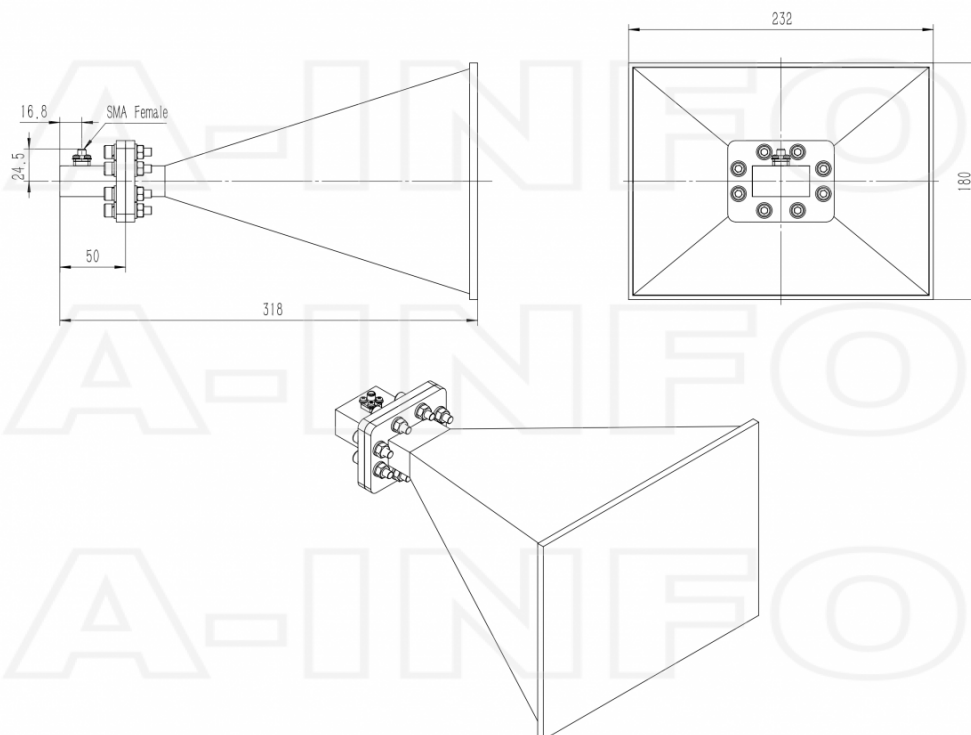
Electrical Specification		Interface	
Frequency, Min (GHz)	4.9	Output Type	Coaxial
Frequency, Max (GHz)	7.05	Connector	SMA
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR159	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB 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)	50		
Power Handling, Peak, (W)	3000		

Additional Information

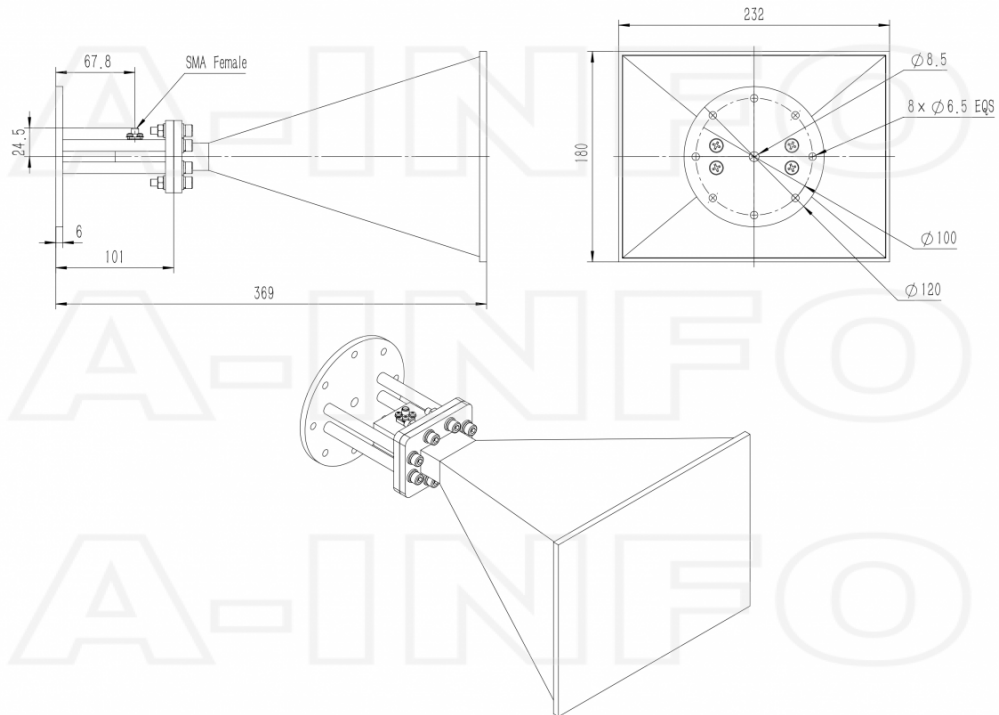
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

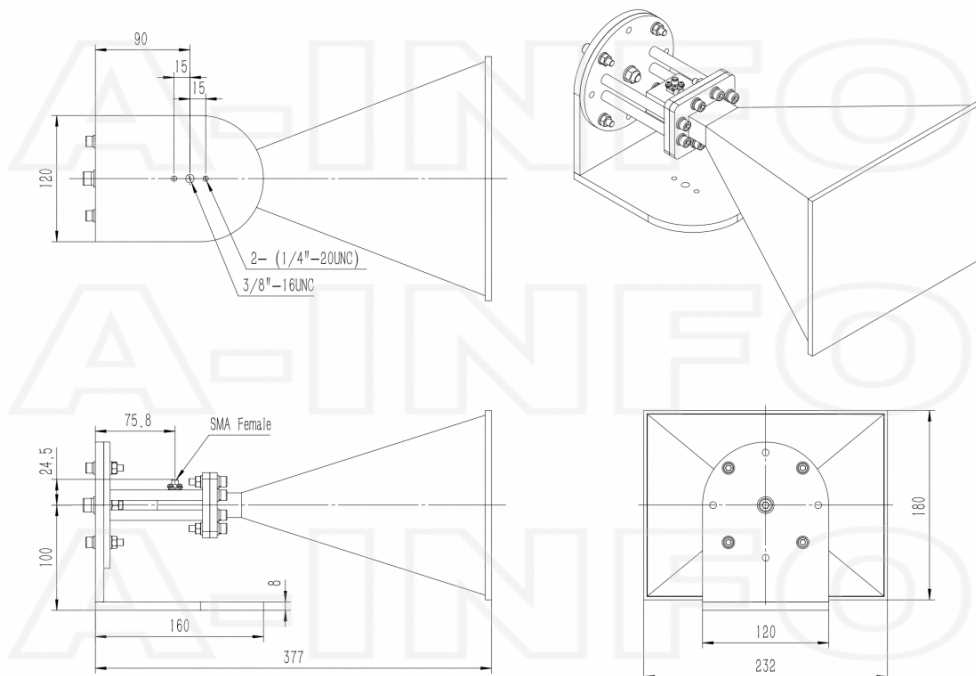
SMA Female Output with Radome (Option, P/N: LB-159-20-C-SFSP0, Outdoor Application)



SMA Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-159-10-C-MB & LB-159-20-C-SFSP0, Outdoor Application)

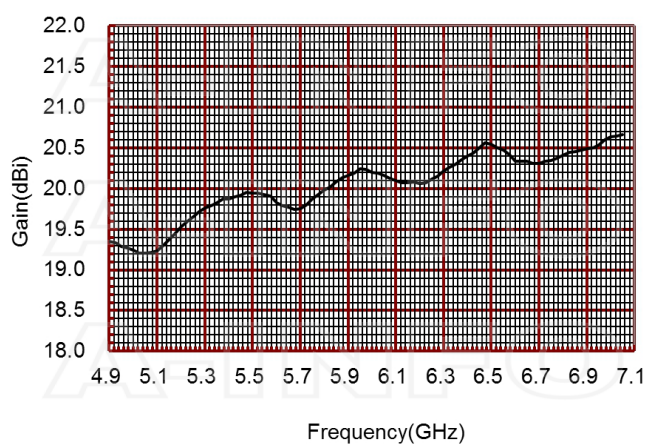


SMA Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-159-10-C-MBL & LB-159-20-C-SFSP0, Outdoor Application)

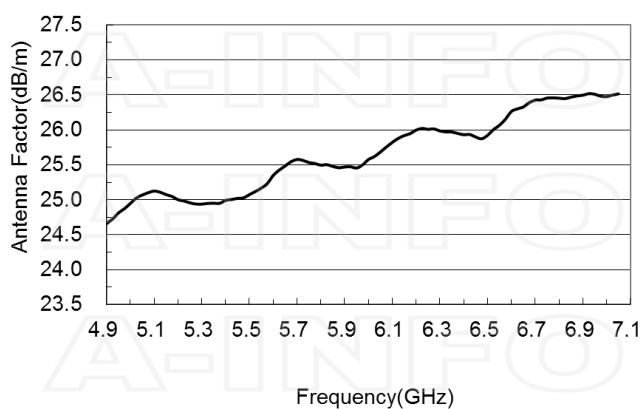


Typical Test Results

Gain



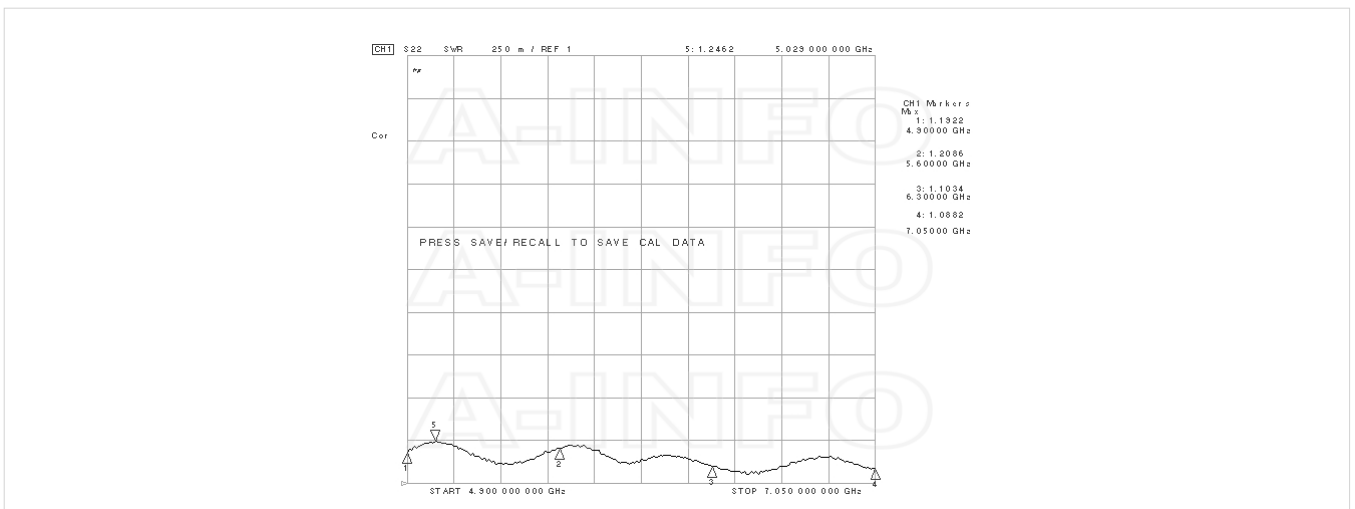
Antenna Factor



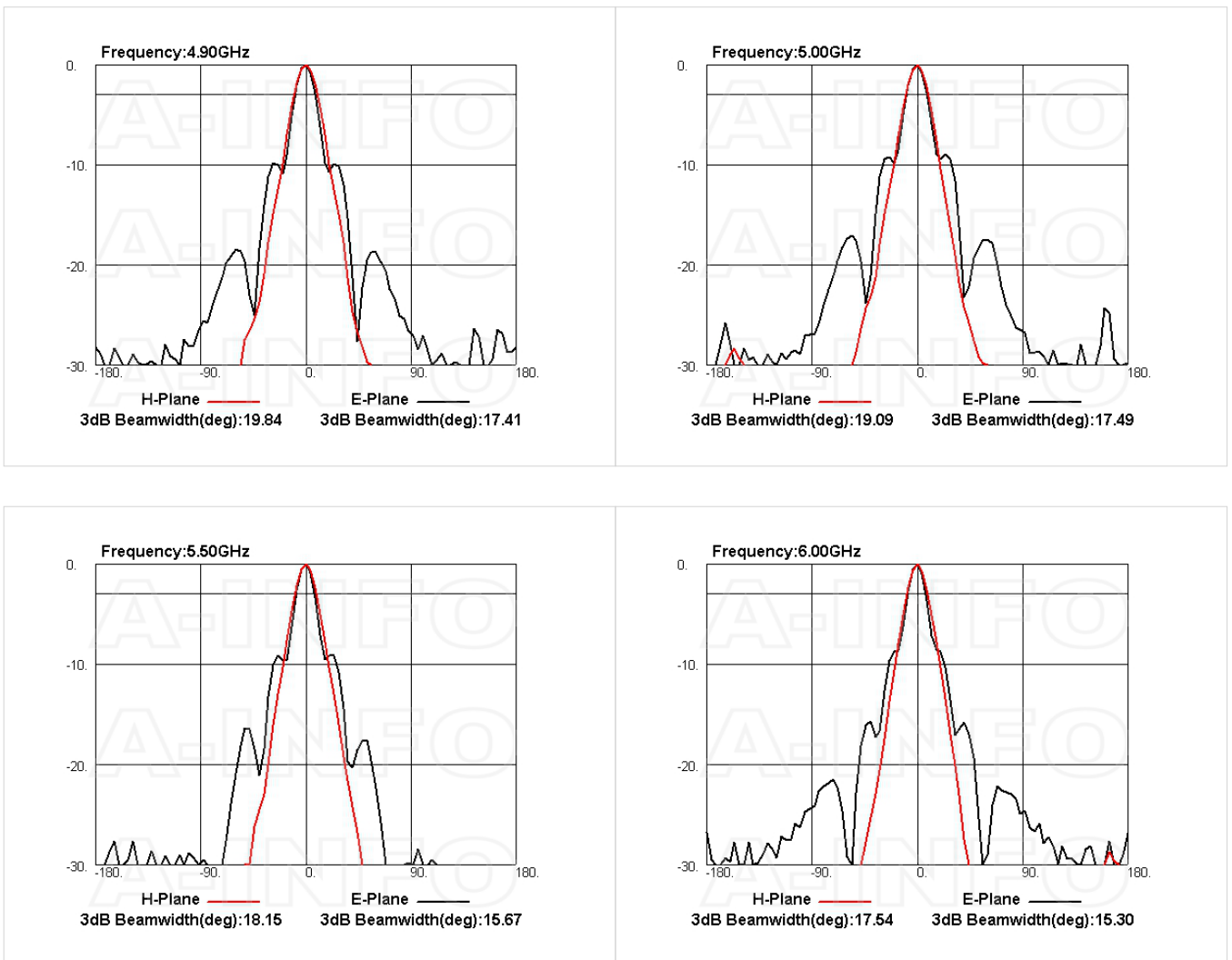
Antenna Factor (Table)

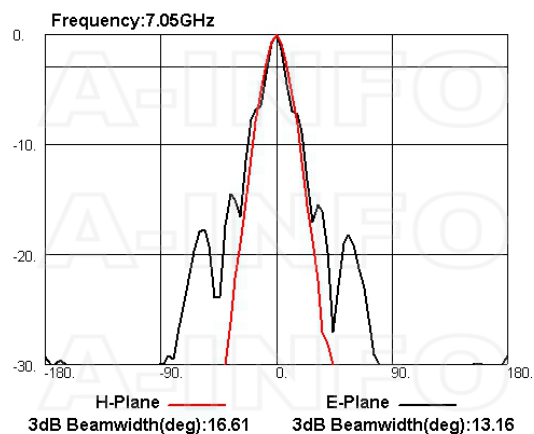
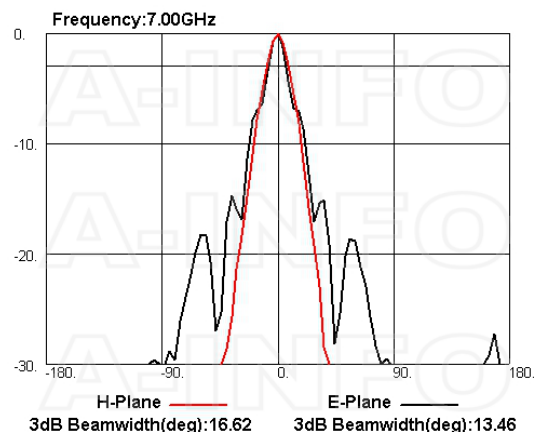
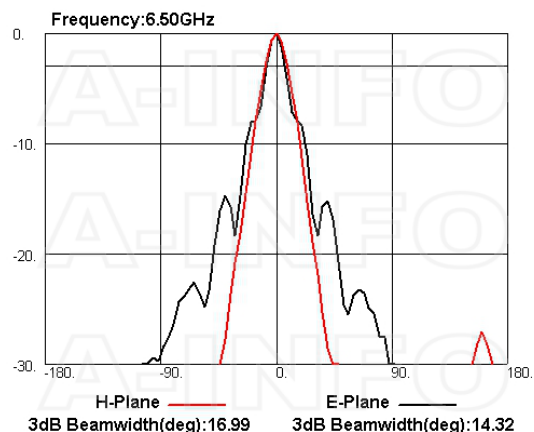
Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)	Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
4.90	19.35	24.66	6.10	20.10	25.82
5.00	19.24	24.95	6.20	20.06	26.00
5.10	19.24	25.12	6.30	20.21	25.98
5.20	19.53	25.00	6.40	20.40	25.93
5.30	19.76	24.94	6.50	20.55	25.92
5.40	19.87	24.99	6.60	20.34	26.26
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			

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



SM-SM-A050-1000 Flexible Cable
Assembly 1000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A050-1500 Flexible Cable
Assembly 1500mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A050-2000 Flexible Cable
Assembly 2000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A050-3000 Flexible Cable
Assembly 3000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A050-5000 Flexible Cable
Assembly 5000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A050-10000 Flexible
Cable Assembly 10000mm DC-
26.5GHz SMA Male to SMA Male



SM-SM-A080-200 Flexible Cable
Assembly 200mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-300 Flexible Cable
Assembly 300mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-500 Flexible Cable
Assembly 500mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-1000 Flexible Cable
Assembly 1000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-1500 Flexible Cable
Assembly 1500mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-2000 Flexible Cable
Assembly 2000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-3000 Flexible Cable
Assembly 3000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-5000 Flexible Cable
Assembly 5000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-10000 Flexible
Cable Assembly 10000mm DC-
26.5GHz SMA Male to SMA Male



SM-SM-A080-20000 Flexible
Cable Assembly 20000mm DC-
26.5GHz SMA Male to SMA Male



SM-SM-A100-100 Flexible Cable
Assembly 100mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-200 Flexible Cable
Assembly 200mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-300 Flexible Cable
Assembly 300mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-500 Flexible Cable
Assembly 500mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-1000 Flexible Cable
Assembly 1000mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-1500 Flexible Cable
Assembly 1500mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-2000 Flexible Cable
Assembly 2000mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-3000 Flexible Cable
Assembly 3000mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-5000 Flexible Cable
Assembly 5000mm DC- 18GHz
SMA Male to SMA Male



SM-SM-A100-10000 Flexible
Cable Assembly 10000mm DC-
18GHz SMA Male to SMA Male

Similar Products



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



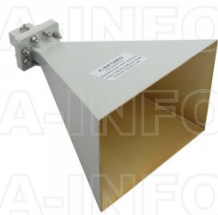
LB-159-20-ASPO Standard Gain
Horn Antenna 4.9-7.05GHz 20dB
Gain Rectangular Waveguide
Interface



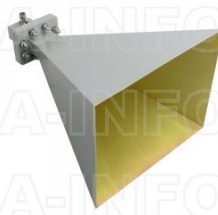
LB-159-20-C-NF Standard Gain
Horn Antenna 4.9-7.05GHz 20dB
Gain N Type Female



LB-159-20-C-NFSP0 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-TF Standard Gain
Horn Antenna 4.9-7.05GHz 20dB
Gain TNC Female



LB-159-20-C-TFSP0 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-sfsp0-standard-gain-horn-antenna-4-9-7-05-ghz-20db-gain-sma-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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