



LB-51-20-C-SF Standard Gain Horn Antenna 15-22GHz 20dB Gain SMA Female

Standard Gain Horn Antenna Operating From 15GHz to 22GHz With a Nominal 20dB Gain With SMA Female Connector

Product Information

SKU	LB-51-20-C-SF
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Description

Standard Gain Horn Antenna LB-51-20-C-SF, operating from 15 to 22GHz with a nominal 20dB gain and low VSWR 1.25:1 with SMA Female connector output. The model LB-51-20-C-SF 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 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

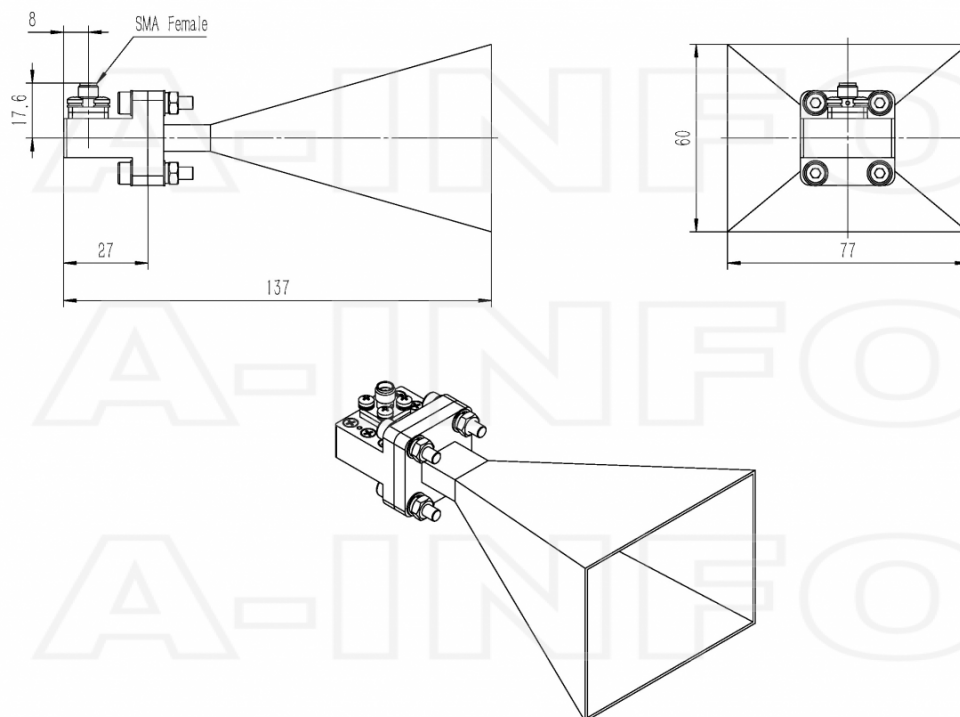
Electrical Specification		Interface	
Frequency, Min (GHz)	15	Output Type	Coaxial
Frequency, Max (GHz)	22	Connector	SMA
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR51	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Finish	Silver Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Size, W (mm)	77
Cross Pol. Isolation, Typ (dB)	35	Size, H (mm)	60
VSWR, Typ	1.25:1	Size, L (mm)	137
Impedance, (Ohm)	50	Weight, (kg)	0.3
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	3000		

Additional Information

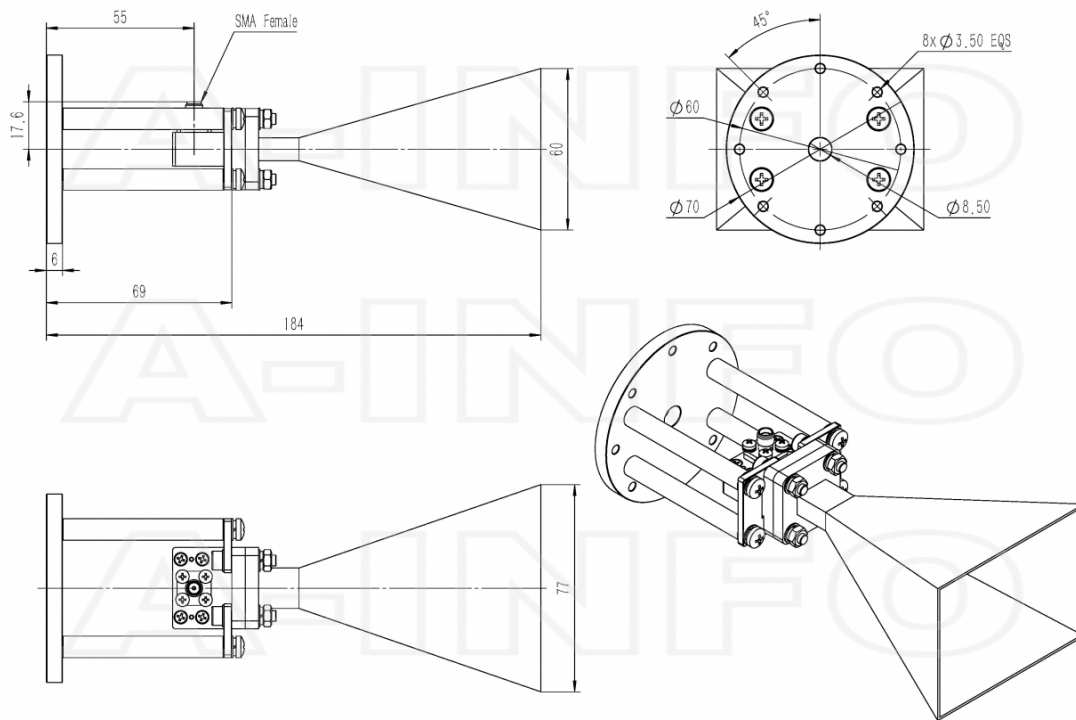
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

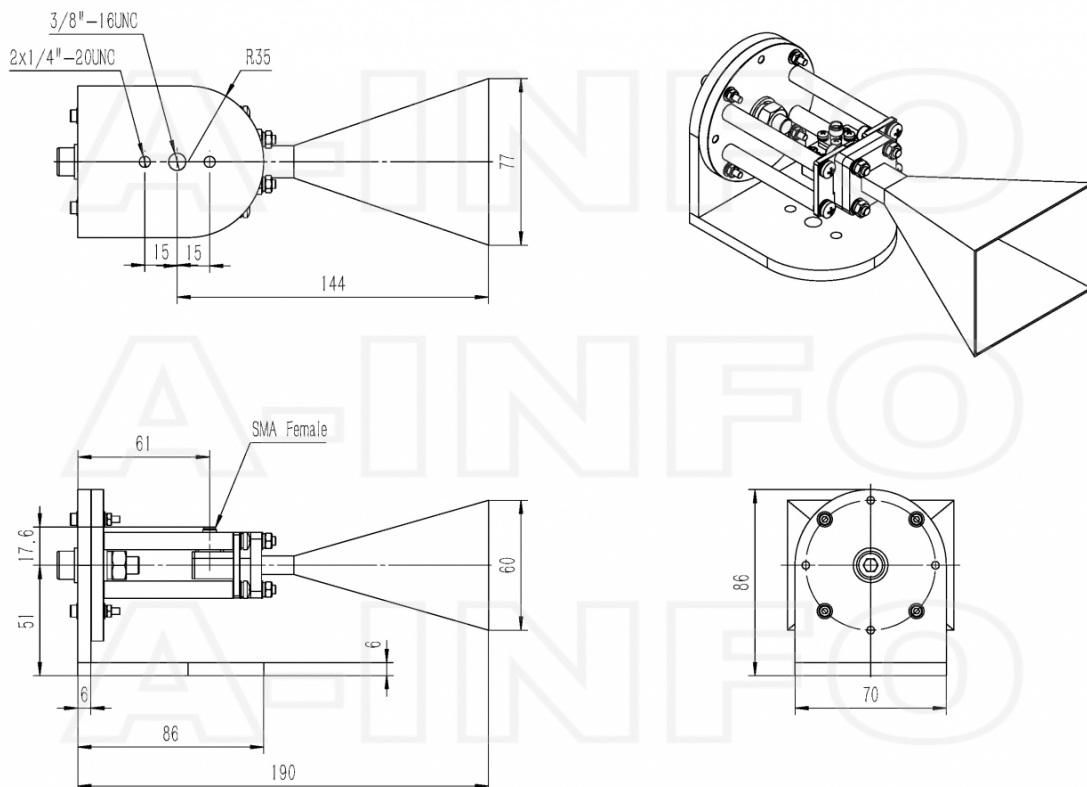
SMA-Female Output (P/N: LB-51-20-C-SF)



SMA-Female Output with Round Mounting Bracket (Option, P/N: LB-51-10-C-MB)

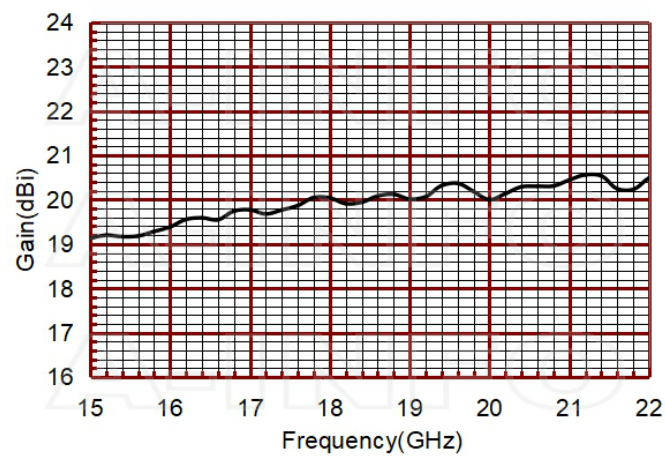


SMA-Female Output with L Type Mounting Bracket (Option, P/N: LB-51-10-C-MBL)

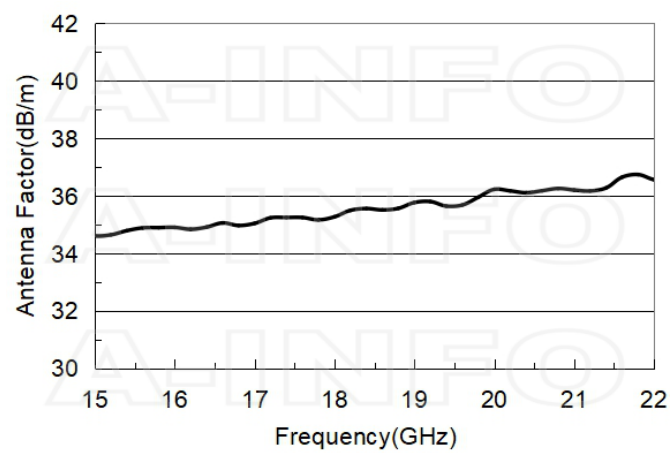


Typical Test Results

Gain



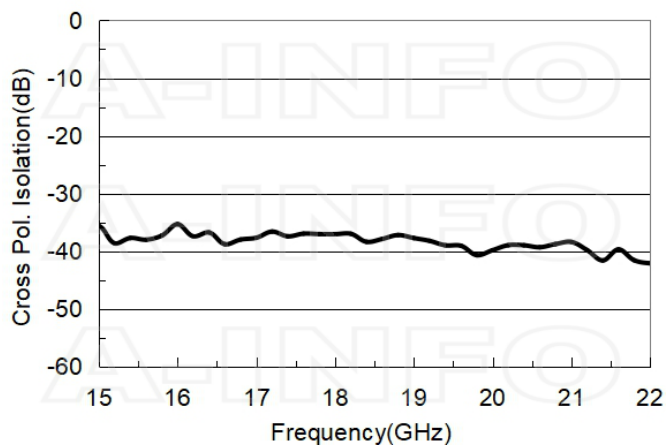
Antenna Factor



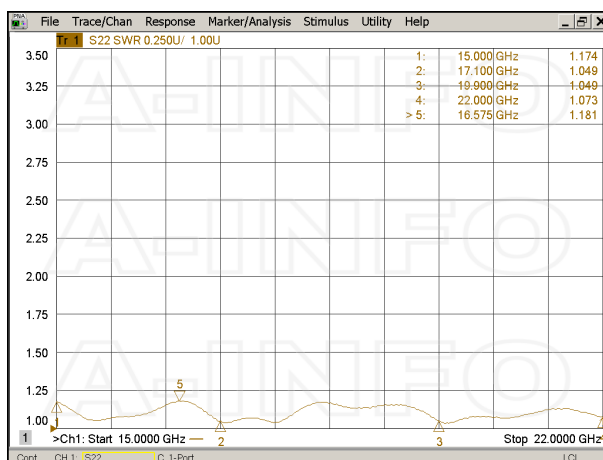
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
15.0	19.12	34.62
15.5	19.16	34.86
16.0	19.38	34.91
16.5	19.57	34.99
17.0	19.77	35.05
17.5	19.53	35.54
18.0	20.04	35.28
18.5	20.09	35.46
19.0	20.01	35.77
19.5	20.54	35.47
20.0	20.00	36.23
20.5	20.32	36.12
21.0	20.45	36.21
21.5	20.38	36.48
22.0	20.49	36.57

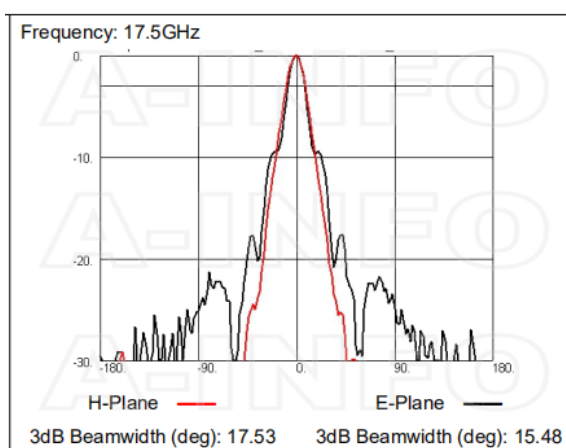
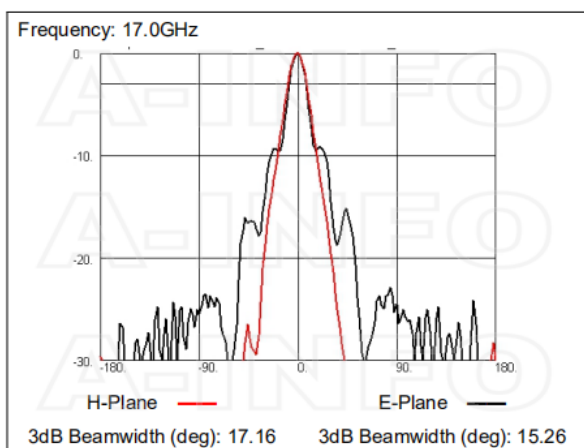
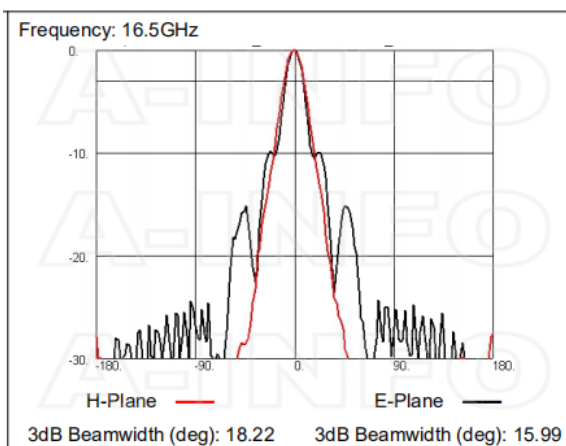
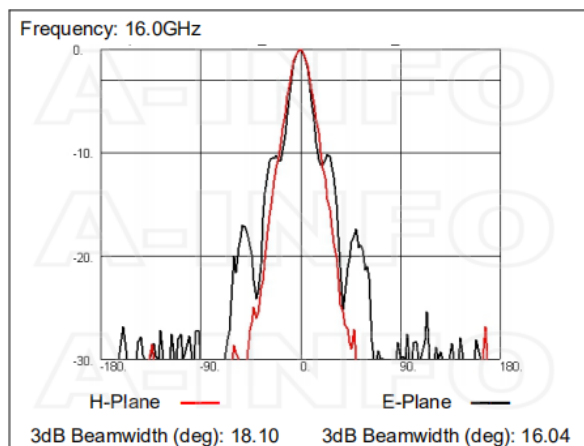
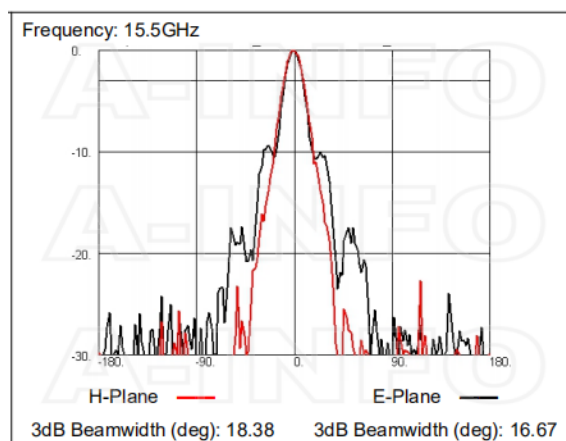
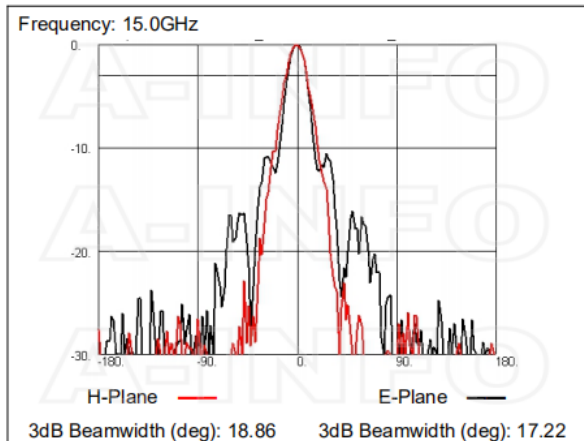
Cross Polarization Isolation

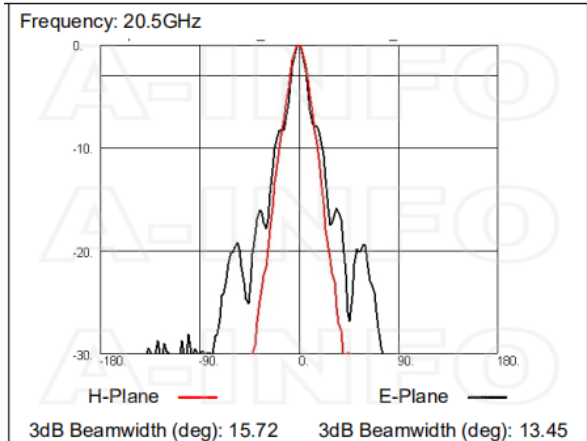
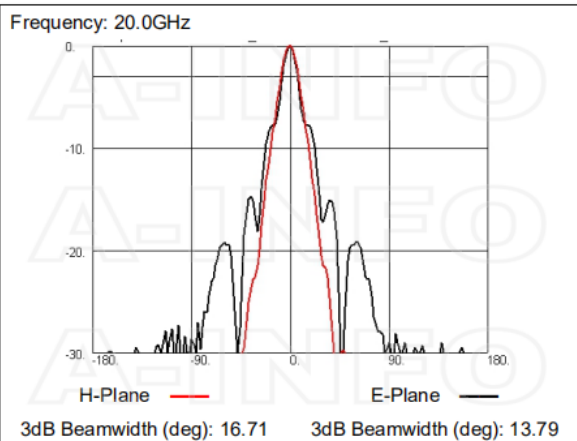
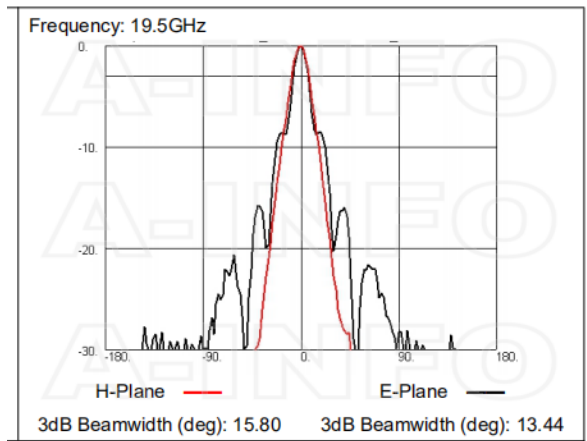
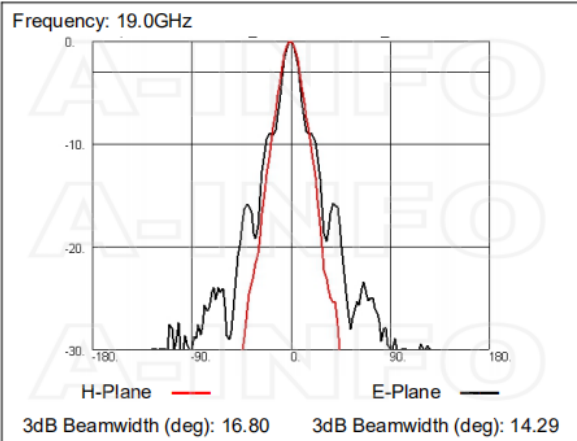
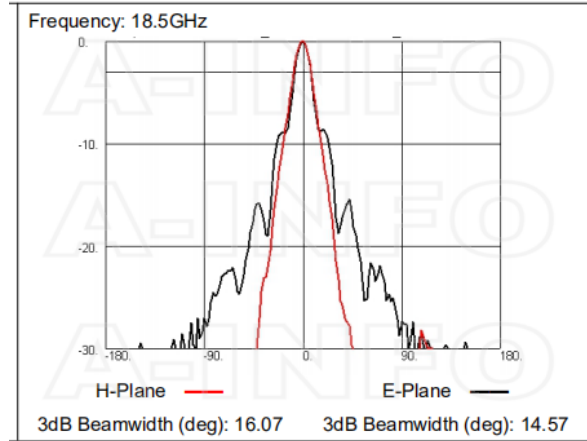
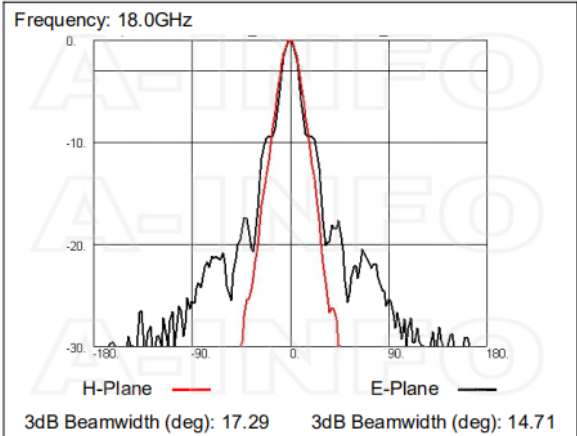


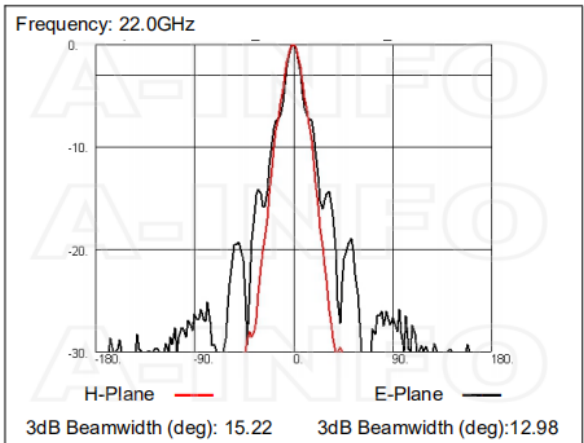
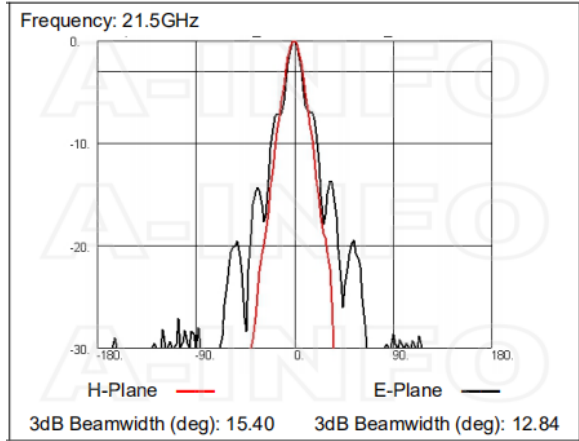
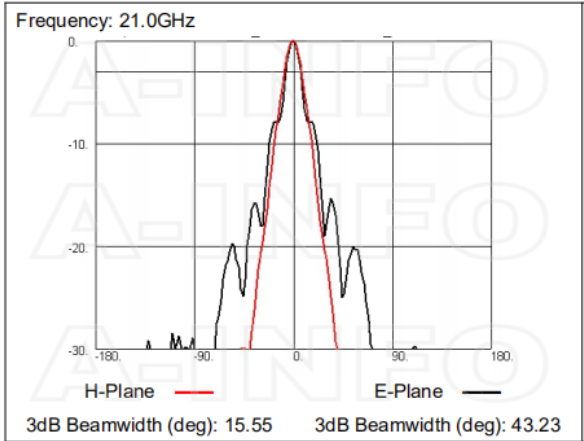
VSWR



Pattern







Related Products



LB-51-10-C-MB Round Type
Mounting Bracket



LB-51-10-C-MBL L type mounting
bracket



LB-51-10-C-MA Stinger Type
Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod
Metalfree



M4x12 Hex_Pack WR51-WR112
Assembly Pack



SM-SM-A050-500 Flexible Cable
Assembly 500mm DC- 26.5GHz
SMA Male to SMA Male



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-A080-500 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

Similar Products



LB-51-20-A Standard Gain Horn Antenna 15-22GHz 20dB Gain Rectangular Waveguide Interface



LB-51-20-ASPO Standard Gain Horn Antenna 15-22GHz 20dB Gain Rectangular Waveguide Interface



LB-51-20-C-SFSP0 Standard Gain Horn Antenna 15-22GHz 20dB Gain SMA Female

About this Datasheet

Product Information Product Link: https://www.ainfoinc.com/lb-51-20-c-sf-standard-gain-horn-antenna-15-22-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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