

LB-75-20-C-NF Standard Gain Horn Antenna 10-15GHz 20dB Gain N Type Female



Standard Gain Horn Antenna Operating From 10GHz to 15GHz With a Nominal 20dB Gain With N Type Female Connector

### Product Information

SKU	LB-75-20-C-NF
-----	---------------

### Description

Standard Gain Horn Antenna LB-75-20-C-NF, operating from 10 to 15GHz with a nominal 20dB gain and low VSWR 1.25:1 with N Type Female connector output. The model LB-75-20-C-NF 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 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

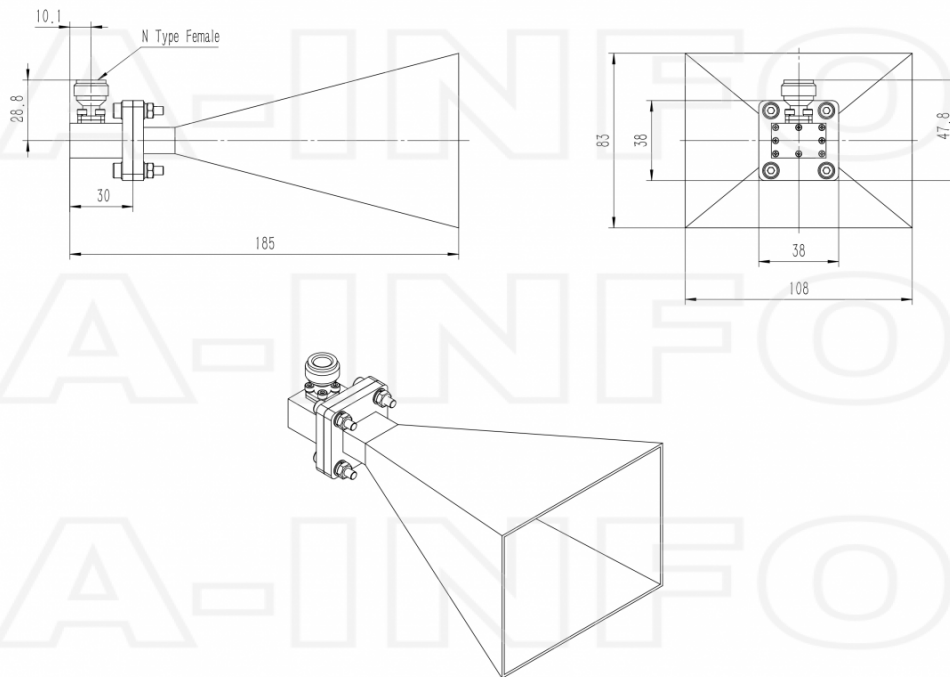
Electrical Specification		Interface	
Frequency, Min (GHz)	10	Output Type	Coaxial
Frequency, Max (GHz)	15	Connector	N Type
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR75	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Size, W (mm)	108
Cross Pol. Isolation, Typ (dB)	35	Size, H (mm)	83
VSWR, Typ	1.25:1	Size, L (mm)	185
Impedance, (Ohm)	50	Weight, (kg)	0.2
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

## Additional Information

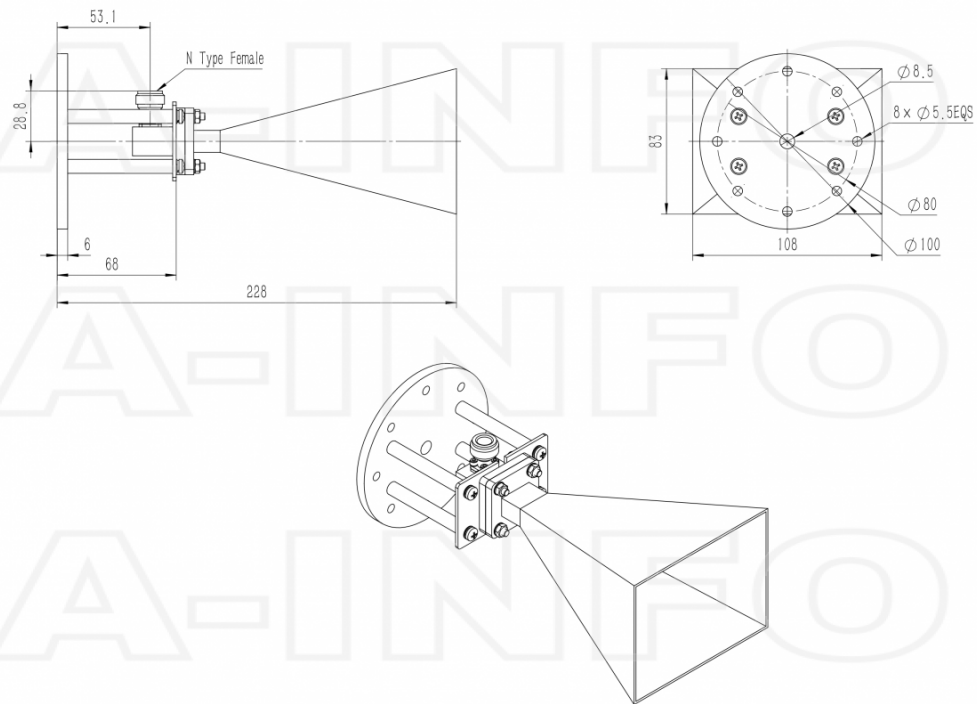
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	---	--------------	---

## Outline Drawing

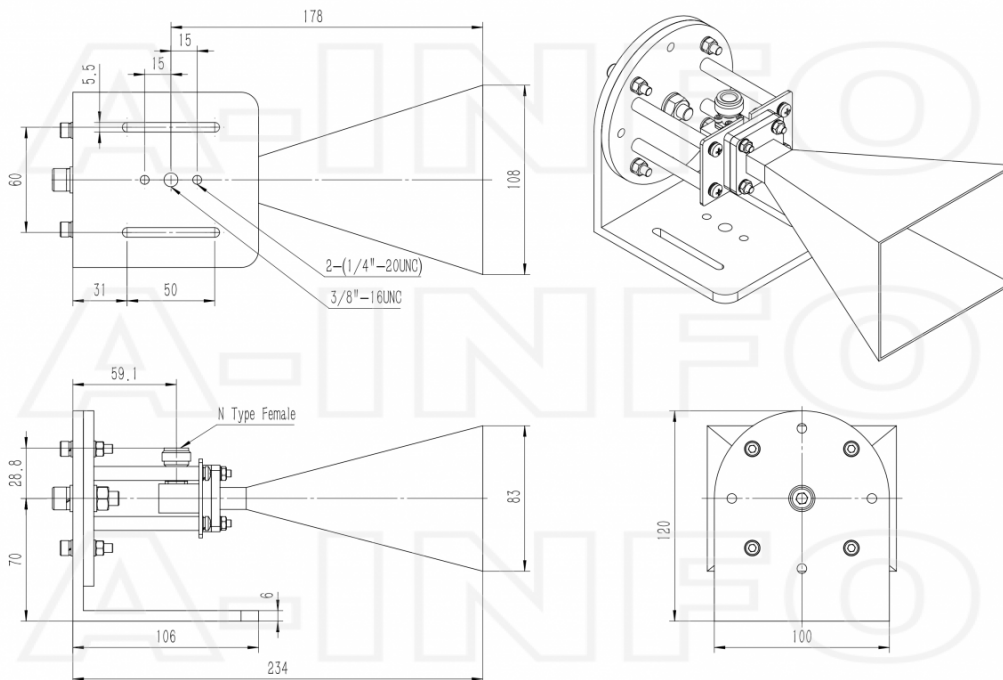
N Type Female Output (P/N: LB-75-20-C-NF)



N Type Female Output with Round Mounting Bracket (Option, P/N: LB-75-10-C-MB)

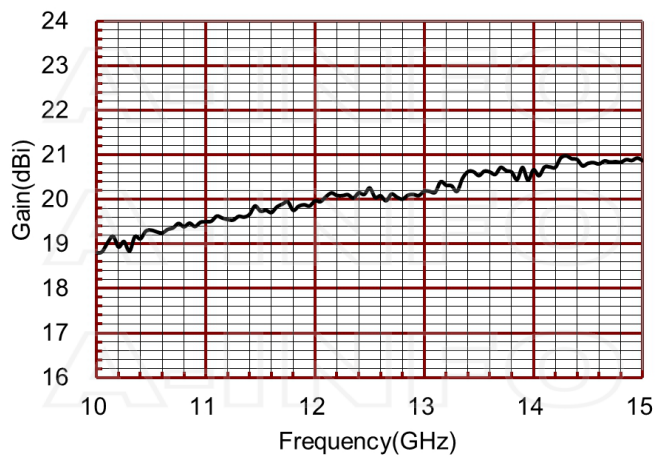


N Type Female Output with L Type Mounting Bracket (Option, P/N: LB-75-10-C-MBL)

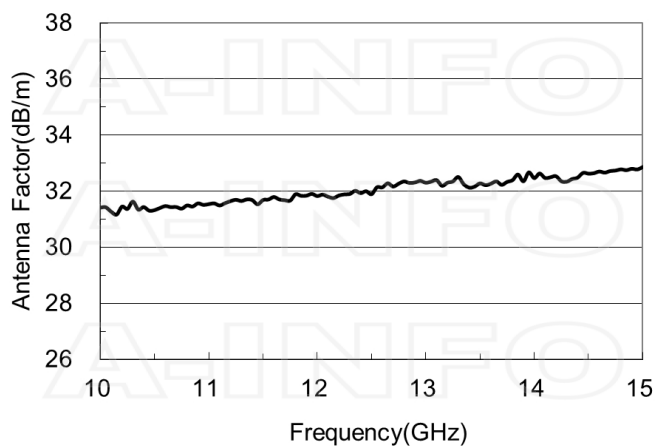


## Typical Test Results

### Gain



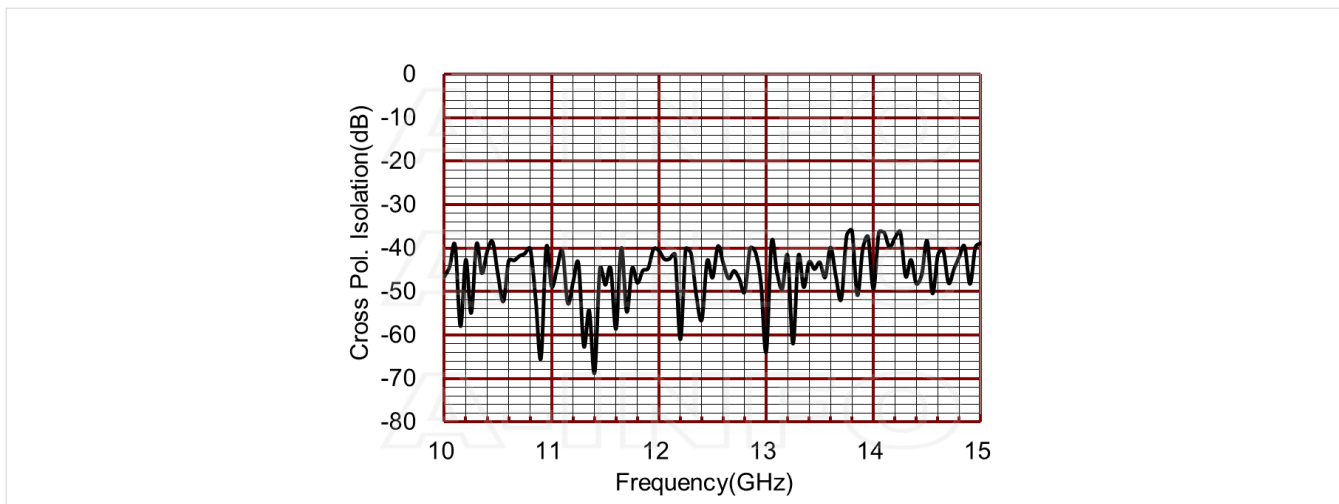
### Antenna Factor



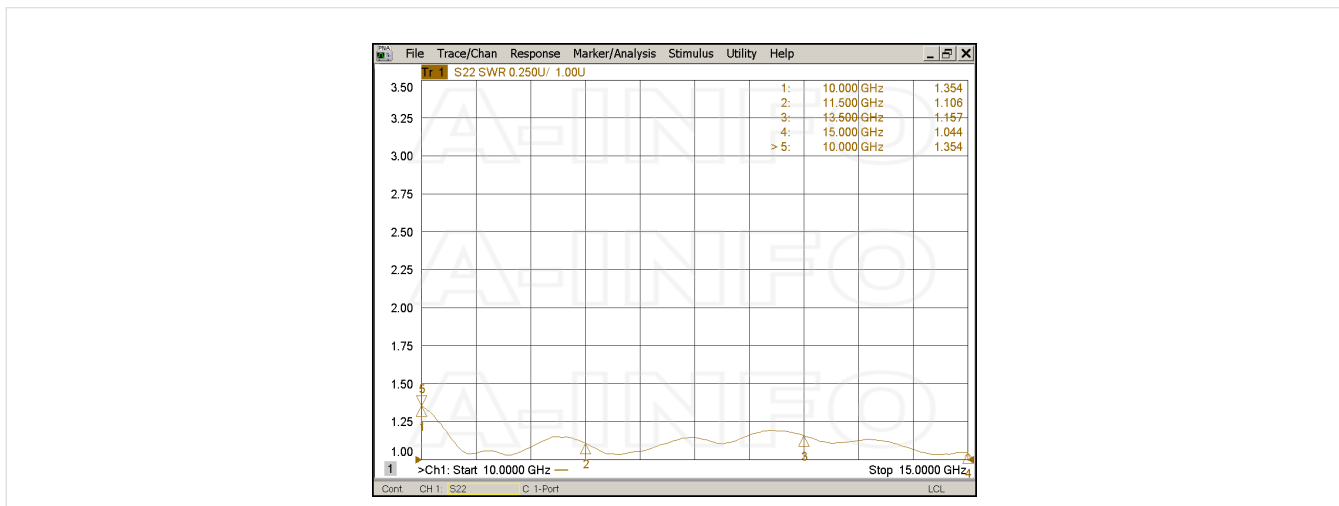
### Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
10.00	18.79	31.42
10.50	19.31	31.33
11.00	19.50	31.54
11.50	19.73	31.69
12.00	19.97	31.83
12.50	20.25	31.89
13.00	20.19	32.30
13.50	20.53	32.28
14.00	20.66	32.47
14.50	20.81	32.63
15.00	20.87	32.86

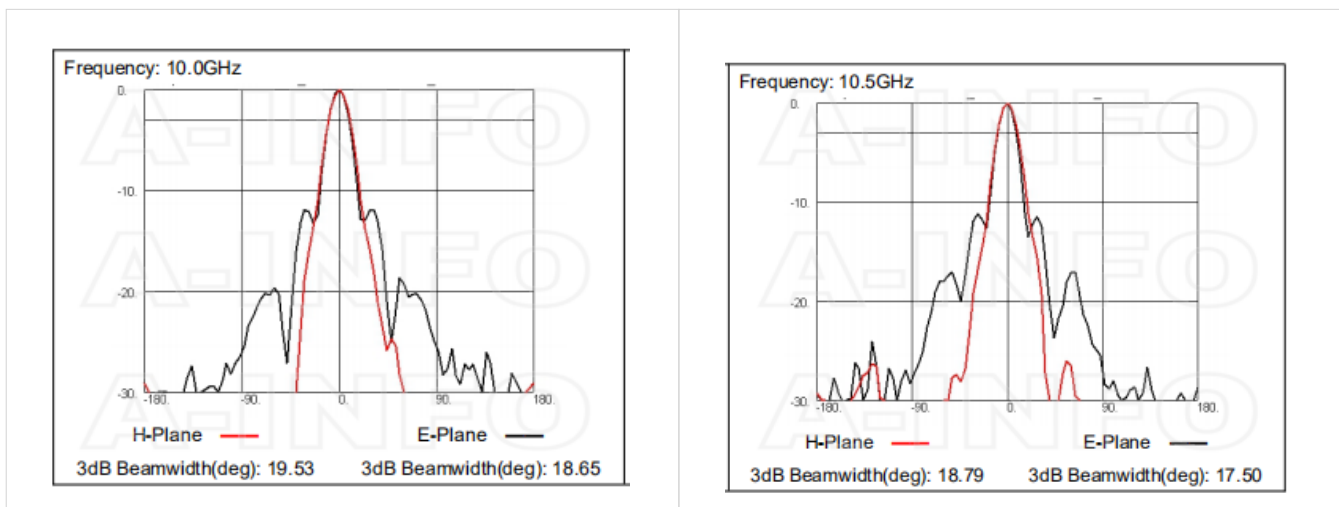
## Cross Polarization Isolation

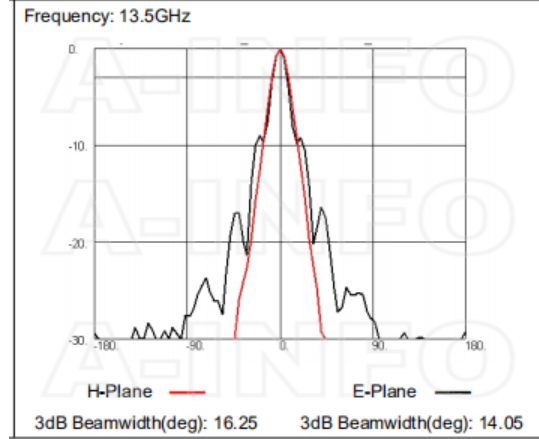
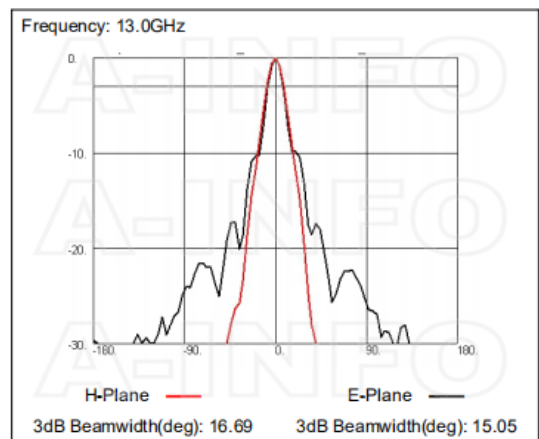
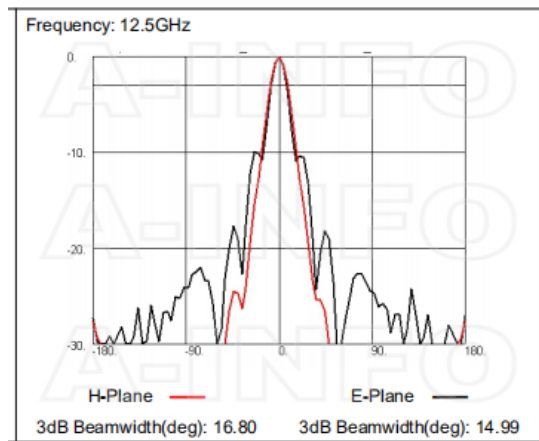
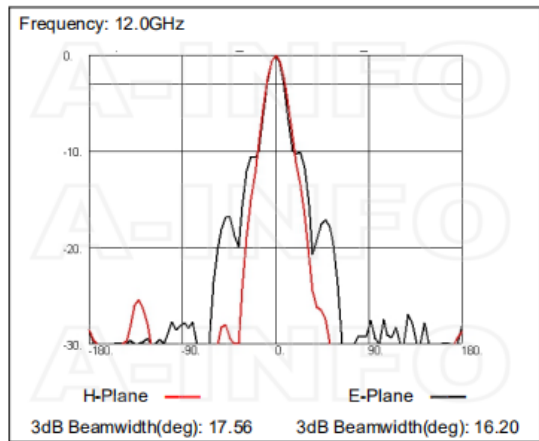
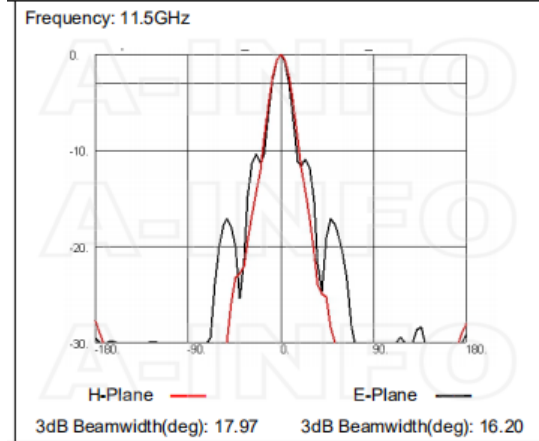
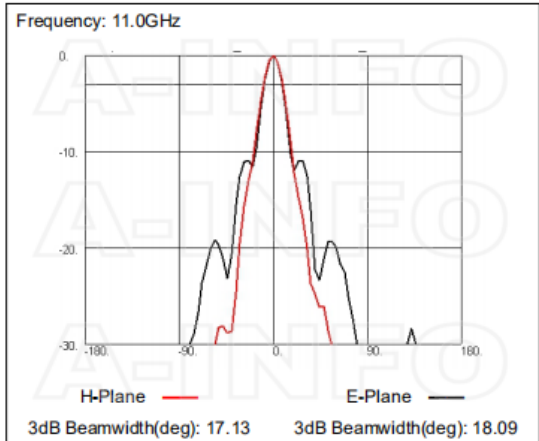


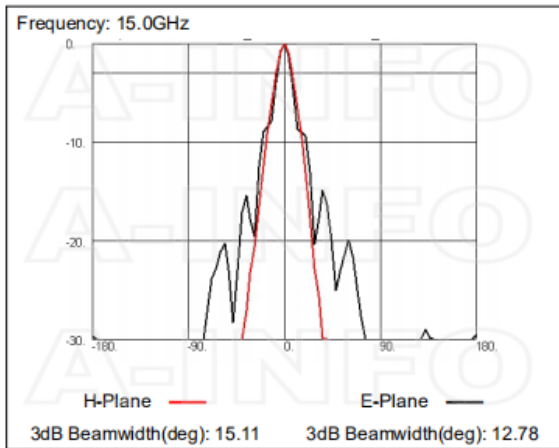
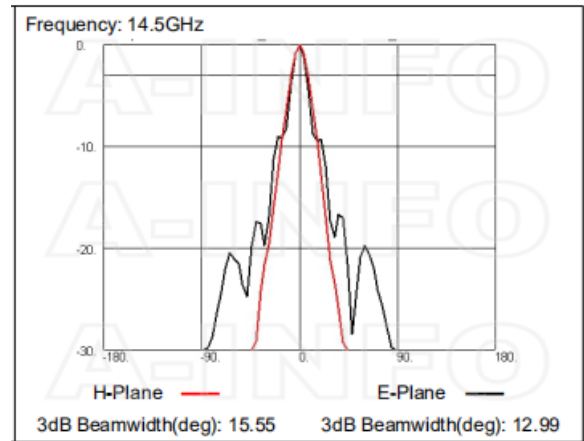
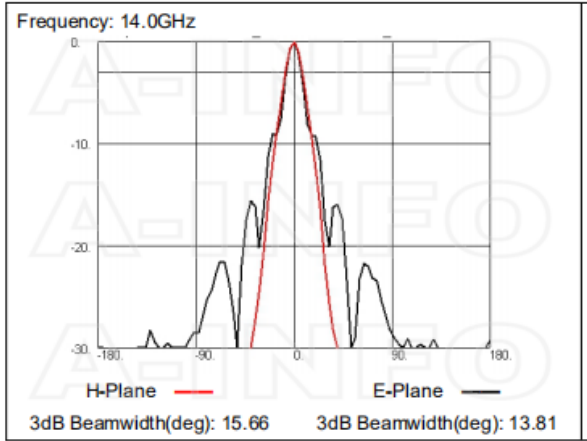
## VSWR



## Pattern







## Related Products



LB-75-10-C-MB Round Type Mounting Bracket



LB-75-10-C-MBL L type mounting bracket



LB-75-10-C-MA Stinger Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case\_LB-75-20-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



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-A100-1000 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

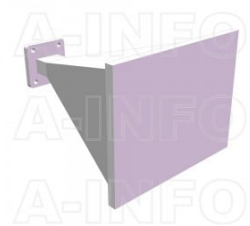


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

### Similar Products



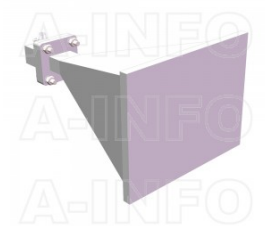
LB-75-20-A Standard Gain Horn Antenna 10-15GHz 20dB Gain Rectangular Waveguide Interface



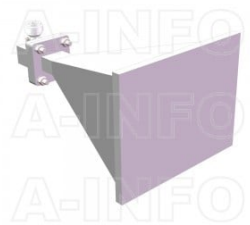
LB-75-20-ASPO Standard Gain Horn Antenna 10-15GHz 20dB Gain Rectangular Waveguide Interface



LB-75-20-C-SF Standard Gain Horn Antenna 10-15GHz 20dB Gain SMA Female



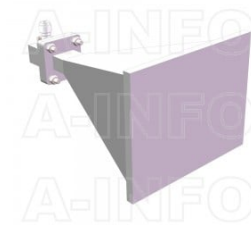
LB-75-20-C-SFSPO Standard Gain Horn Antenna 10-15GHz 20dB Gain SMA Female



LB-75-20-C-NFSPO Standard Gain Horn Antenna 10-15GHz 20dB Gain N Type Female



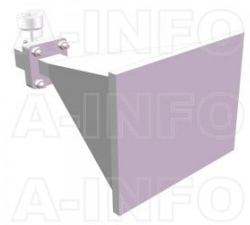
LB-75-20-C-TF Standard Gain Horn Antenna 10-15GHz 20dB Gain TNC Female



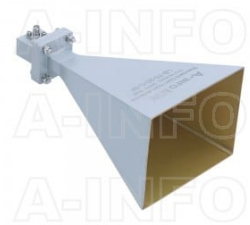
LB-75-20-C-TFSPO Standard Gain Horn Antenna 10-15GHz 20dB Gain TNC Female



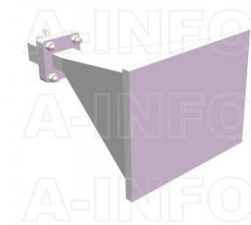
LB-75-20-C-7 Standard Gain Horn Antenna 10-15GHz 20dB Gain 7mm



LB-75-20-C-7SPO Standard Gain Horn Antenna 10-15GHz 20dB Gain 7mm



LB-75-20-C-3.5F Standard Gain Horn Antenna 10-15GHz 20dB Gain 3.5mm Female



LB-75-20-C-3.5FSPO Standard Gain Horn Antenna 10-15GHz 20dB Gain 3.5mm Female

### About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b>            Product Link:  <a href="https://www.ainfoinc.com/lb-75-20-c-nf-standard-gain-horn-antenna-10-15-ghz-20db-gain-n-type-female">https://www.ainfoinc.com/lb-75-20-c-nf-standard-gain-horn-antenna-10-15-ghz-20db-gain-n-type-female</a>            Data subject to change without notice.            © A-INFO INC. 2023. All Rights Reserved</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Contact Us</b>            Address:dd            60 Tesla, Irvine, CA 92618,            USA             Website:  <a href="http://www.ainfoinc.com">www.ainfoinc.com</a>             Email:  <a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Phone &amp; Fax</b>            Phone:            +1-949-639-9688            +1-949-639-9608             Fax:            +1-949-639-9670</li> </ul>
---	---	--