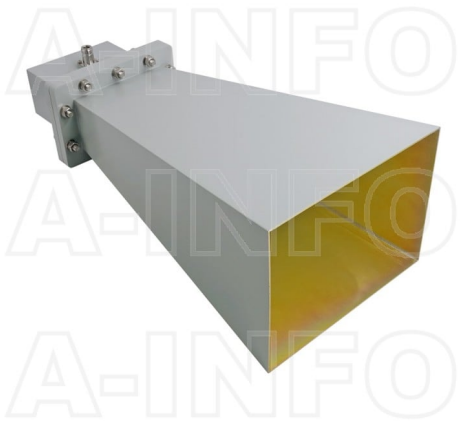




LB-510-10-C-NF Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain N Type Female

Standard Gain Horn Antenna Operating From 1.45GHz to 2.2GHz With a Nominal 10dB Gain With N Type Female Connector

Product Information

SKU	LB-510-10-C-NF
-----	----------------

Description

Standard Gain Horn Antenna LB-510-10-C-NF, operating from 1.45 to 2.2GHz with a nominal 10dB gain and low VSWR 1.25:1 with N Type Female connector output. The model LB-510-10-C-NF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 300W 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

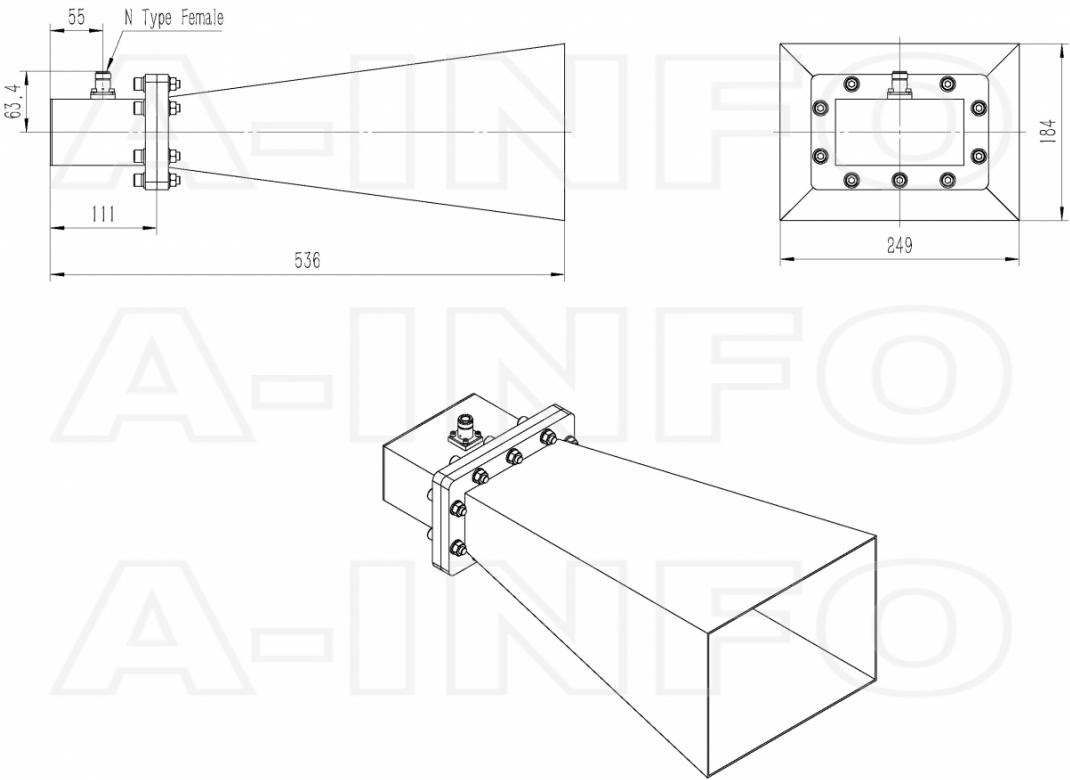
Electrical Specification		Interface	
Frequency, Min (GHz)	1.45	Output Type	Coaxial
Frequency, Max (GHz)	2.2	Connector	N Type
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR510	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	45	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	43	Size, W (mm)	249
Cross Pol. Isolation, Typ (dB)	35	Size, H (mm)	184
VSWR, Typ	1.25:1	Size, L (mm)	536
Impedance, (Ohm)	50	Weight, (kg)	3
Power Handling, CW, (W)	300		
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-Female Output (P/N: LB-510-10-C-NF)



Technical drawing of the A-INFO antenna assembly, showing three views: side view, top view, and perspective view.

Side View Dimensions:

- Overall width: 598
- Distance from left edge to center of N Type Female connector: 117
- Height of the main body: 184
- Distance from left edge to the start of the main body: 63.4
- Distance from left edge to the start of the mounting bracket: 8
- Overall length of the mounting bracket: 161

Top View Dimensions:

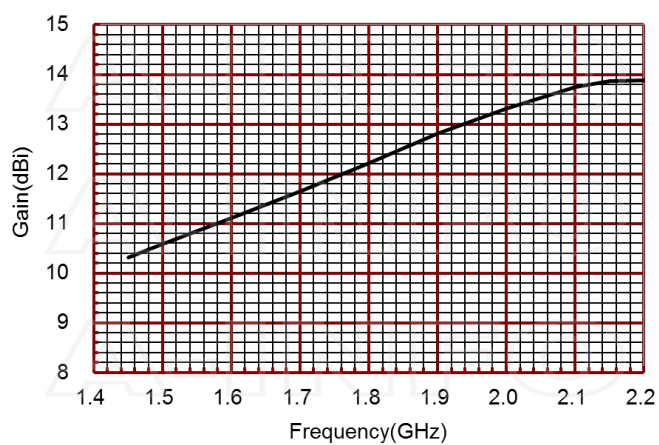
- Overall width: 249
- Distance between mounting holes: 60
- Outer diameter of the main body: $\phi 100$
- Inner diameter of the main body: $\phi 190$
- Distance between mounting holes (inner): $8 \times \phi 6.5$ EQS
- Distance between mounting holes (outer): $8 \times \phi 8.5$ EQS
- Distance between mounting holes (inner): $2 \times \phi 25$
- Distance between mounting holes (outer): $\phi 210$

Perspective View:

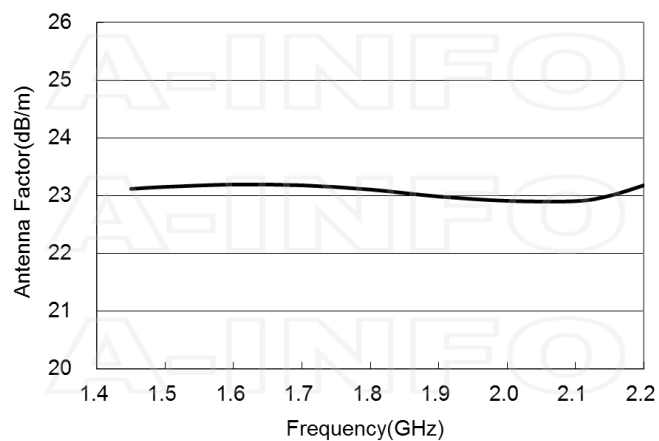
- Shows the antenna assembly with the mounting bracket and the main body.

Typical Test Results

Gain



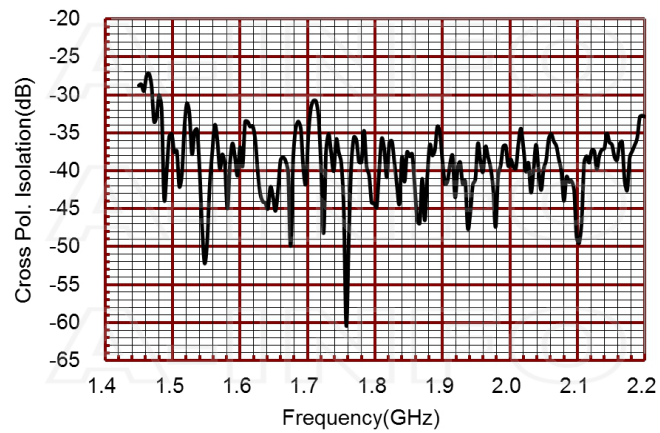
Antenna Factor



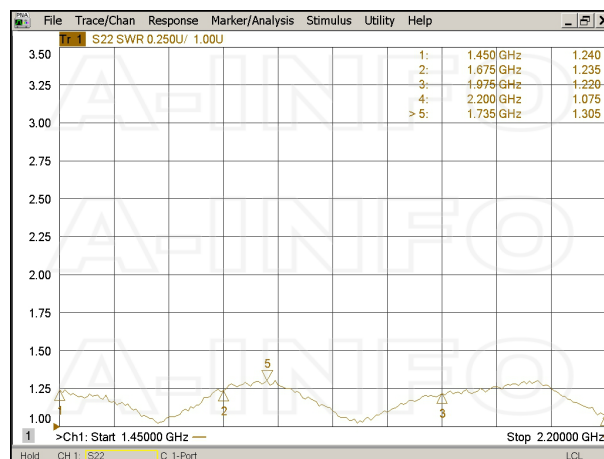
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
1.45	10.32	23.12
1.50	10.58	23.15
1.60	11.10	23.19
1.70	11.64	23.18
1.80	12.21	23.11
1.90	12.80	22.99
2.00	13.32	22.91
2.10	13.75	22.90
2.15	13.86	23.00
2.20	13.88	23.18

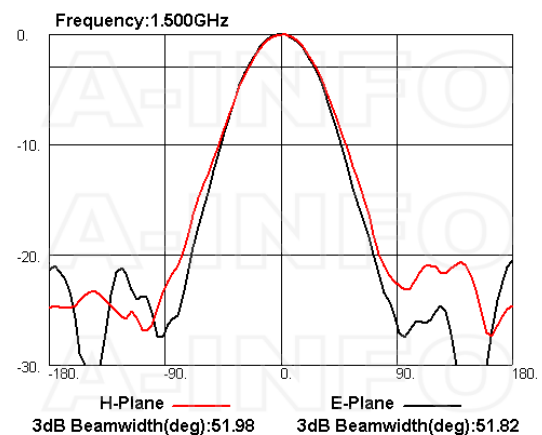
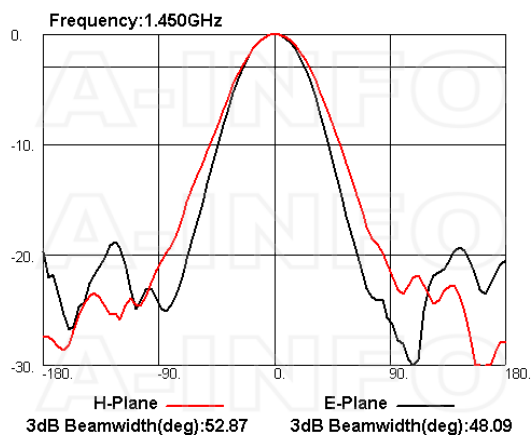
Cross Polarization Isolation

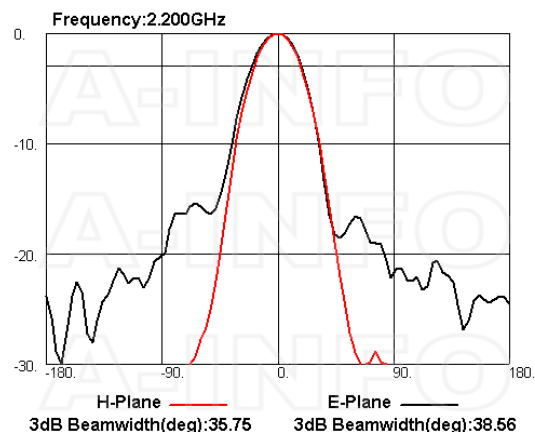
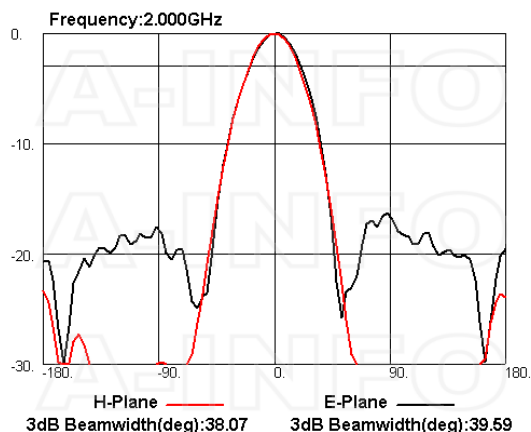


VSWR



Pattern





Related Products



LB-510-10-C-MB Round Type Mounting Bracket



LB-510-10-C-L L type mounting bracket



Carrying Case_LB-510-10-C Alloy Carrying Case



M8x40 Hex_Pack WR510-WR650 Flange 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-A100-500 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

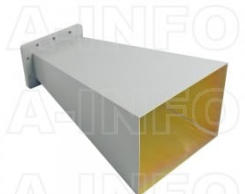


NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



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

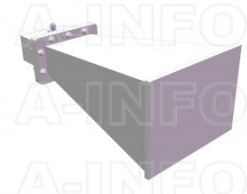
Similar Products



LB-510-10-A Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain Rectangular Waveguide Interface



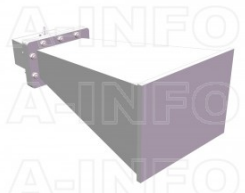
LB-510-10-ASPO Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain Rectangular Waveguide Interface



LB-510-10-C-NFSPO Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain N Type Female



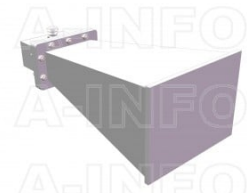
LB-510-10-C-SF Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain SMA Female



LB-510-10-C-SFSPO Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain SMA Female



LB-510-10-C-7/16F Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain 7/16(DIN) Female



LB-510-10-C-7/16FSPO Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-510-10-c-nf-standard-gain-horn-antenna-1-45-2-2-ghz-10db-gain-n-type-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
---	--	---