



LB-187-20-C-NF Standard Gain Horn Antenna 3.95-5.85GHz 20dB Gain N Type Female

Standard Gain Horn Antenna Operating From 3.95GHz to 5.85GHz With a Nominal 20dB Gain With N Type Female Connector

Product Information

SKU	LB-187-20-C-NF
-----	----------------

Description

Standard Gain Horn Antenna LB-187-20-C-NF, operating from 3.95 to 5.85GHz with a nominal 20dB gain and low VSWR 1.25:1 with N Type Female connector output. The model LB-187-20-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

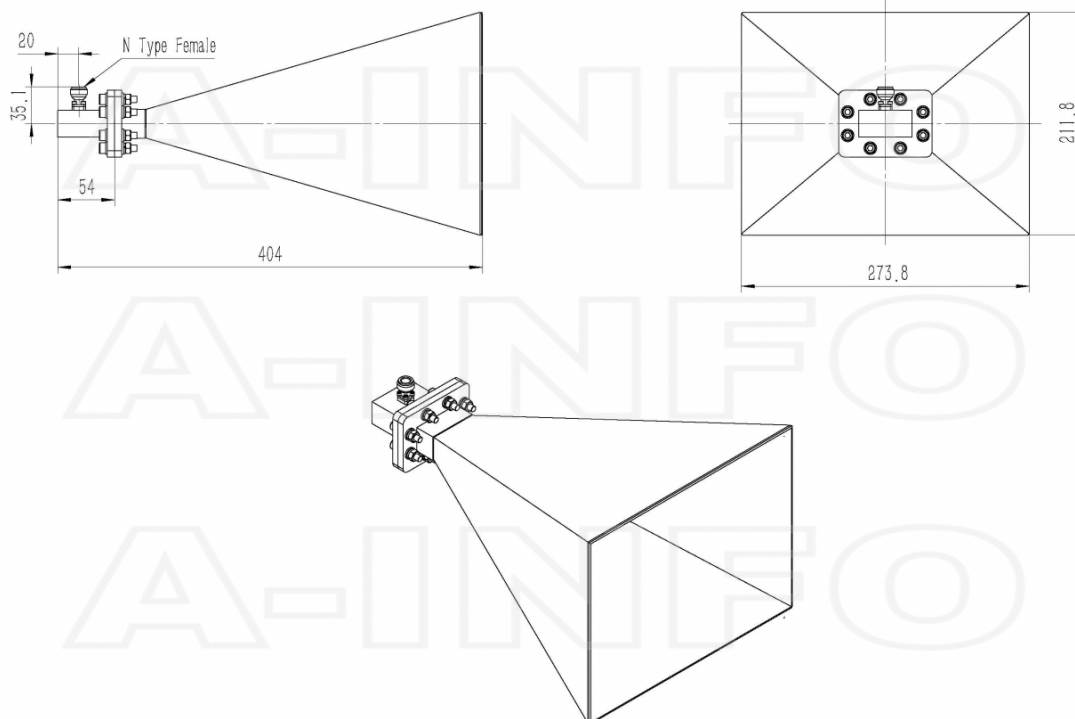
Electrical Specification		Interface	
Frequency, Min (GHz)	3.95	Output Type	Coaxial
Frequency, Max (GHz)	5.85	Connector	N Type
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR187	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Size, W (mm)	273.8
Cross Pol. Isolation, Typ (dB)	30	Size, H (mm)	211.8
VSWR, Typ	1.25:1	Size, L (mm)	404
Impedance, (Ohm)	50	Weight, (kg)	1.56
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-Female Output (P/N: LB-187-20-C-NF)



Technical drawing of the A-INFO 1000W speaker, showing three views: side view, top view, and perspective view.

Side View Dimensions:

- Height: 35.1
- Mounting bracket width: 83
- Mounting bracket thickness: 6
- Mounting bracket length: 117
- Speaker horn length: 467
- Connection: N Type Female

Top View Dimensions:

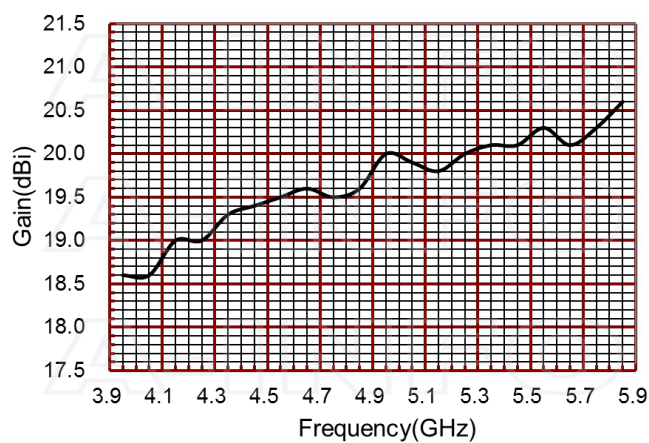
- Overall width: 273.8
- Overall height: 211.8
- Outer diameter of mounting flange: $\varnothing 120$
- Inner diameter of mounting flange: $\varnothing 100$
- Mounting holes: $8 \times \varnothing 6.4$ EQS
- Inner diameter of mounting flange: $\varnothing 8.5$

Perspective View:

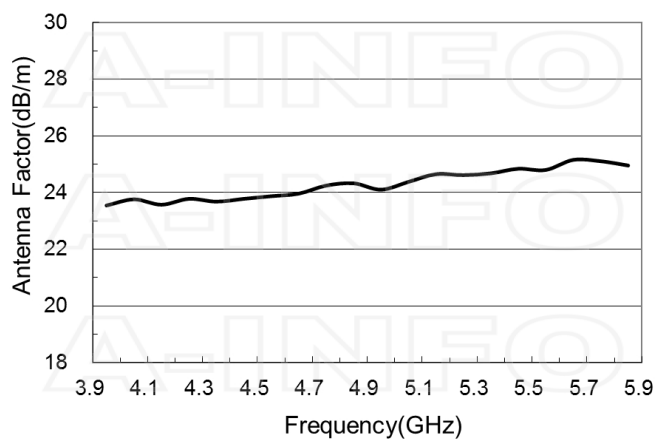
- Shows the speaker horn and the mounting bracket.

Typical Test Results

Gain



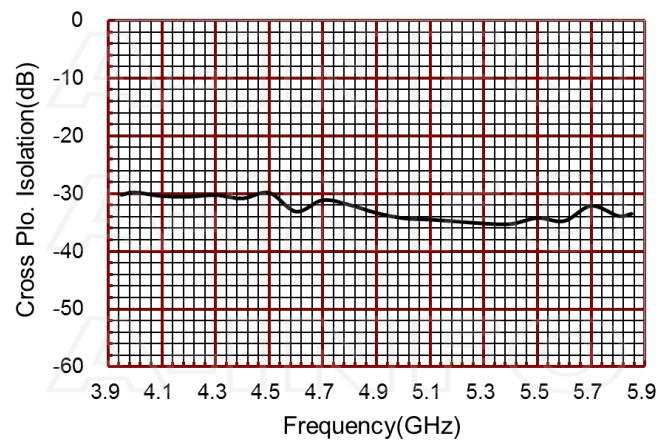
Antenna Factor



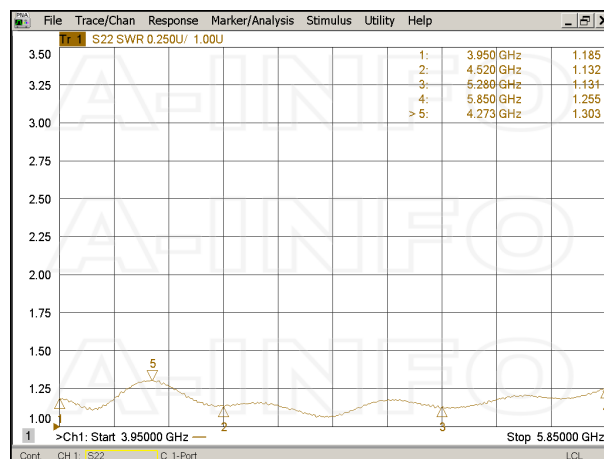
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)	Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
3.95	18.60	23.54	4.95	20.00	24.10
4.05	18.60	23.76	5.05	19.90	24.38
4.15	19.00	23.57	5.15	19.80	24.65
4.25	19.00	23.78	5.25	20.00	24.61
4.35	19.30	23.68	5.35	20.10	24.68
4.45	19.40	23.78	5.45	20.10	24.84
4.55	19.50	23.87	5.55	20.30	24.80
4.65	19.60	23.96	5.65	20.10	25.15
4.75	19.50	24.24	5.75	20.30	25.10
4.85	19.60	24.32	5.85	20.60	24.95

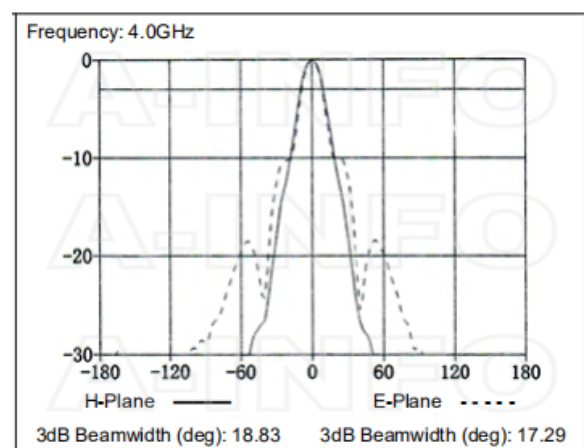
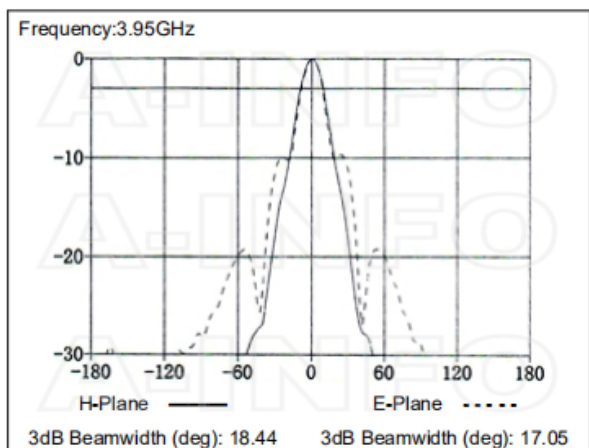
Cross Polarization Isolation

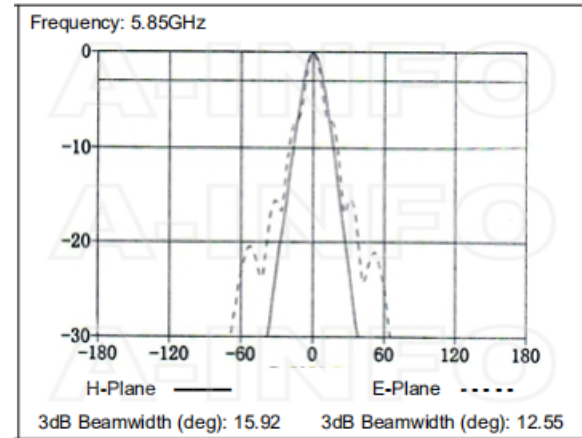
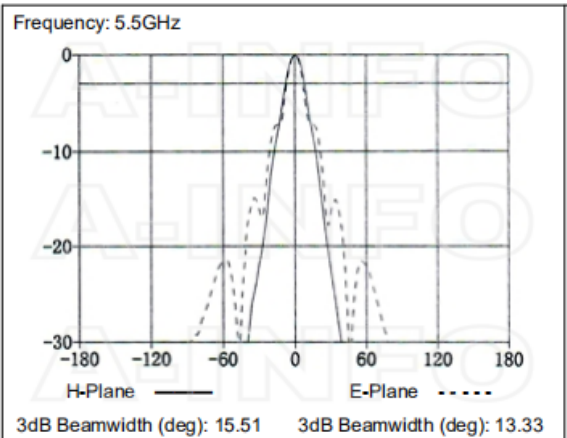
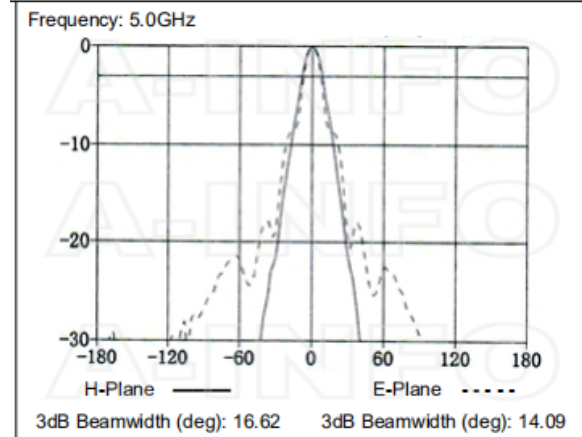
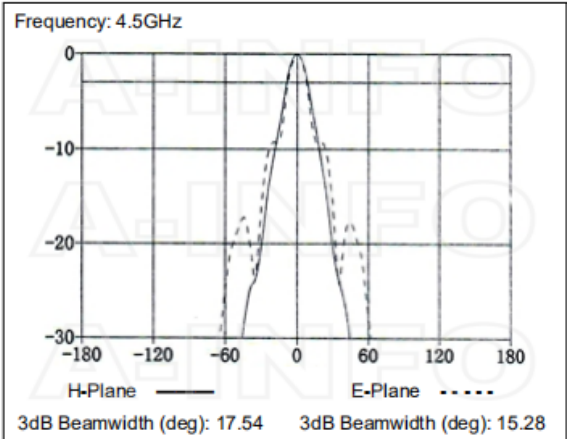


VSWR



Pattern





Related Products



LB-187-10-C-MB Round Type
Mounting Bracket



LB-187-20-C-MBL L type
mounting bracket



LB-187-10-C-MA Stinger Type
Mounting Bracket



Tripod_50Kg Al Alloy Tripod



Carrying Case_LB-187-20-C AI
Alloy Carrying Case



M6x30 Hex_Pack WR284-WR159
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

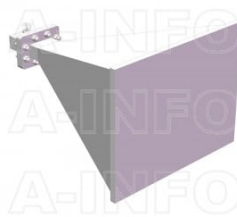
Similar Products



LB-187-20-A Standard Gain Horn
Antenna 3.95-5.85GHz 20dB Gain
Rectangular Waveguide Interface



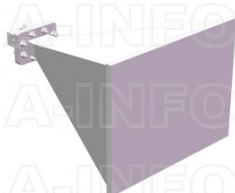
LB-187-20-ASPO Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain Rectangular Waveguide
Interface



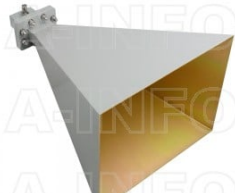
LB-187-20-C-NFSPO Standard
Gain Horn Antenna 3.95-5.85GHz
20dB Gain N Type Female



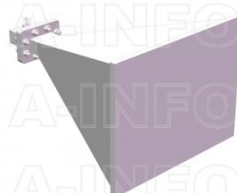
LB-187-20-C-SF Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain SMA Female



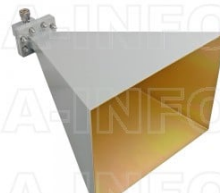
LB-187-20-C-SFSPO Standard
Gain Horn Antenna 3.95-5.85GHz
20dB Gain SMA Female



LB-187-20-C-TF Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain TNC Female



LB-187-20-C-TFSPO Standard
Gain Horn Antenna 3.95-5.85GHz
20dB Gain TNC Female



LB-187-20-C-7 Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain 7mm



LB-187-20-C-7SPO Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain 7mm



LB-187-20-C-3.5F Standard Gain
Horn Antenna 3.95-5.85GHz 20dB
Gain 3.5mm Female



LB-187-20-C-3.5FSPO Standard
Gain Horn Antenna 3.95-5.85GHz
20dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-187-20-c-nf-standard-gain-horn-antenna-3-95-5-85-ghz-20db-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
---	--	---