



LB-2678-20-C-HNF Multi Octave Horn Antenna 2.6-7.8GHz 20dB Gain High Power N Type Female

Multi Octave Horn Antenna Operating From 2.6GHz to 7.8GHz With a Nominal 20dB Gain With High Power N Type Female Connector

Product Information

SKU	LB-2678-20-C-HNF
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Description

Multi octave horn antenna LB-2678-20-C-HNF, operating from 2.6 to 7.8GHz with a nominal 20dB gain and low VSWR 1.5:1 with High Power N Type Female output connector. The model LB-2678-20-C-HNF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 1000W continuously and 3000W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This multi octave horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

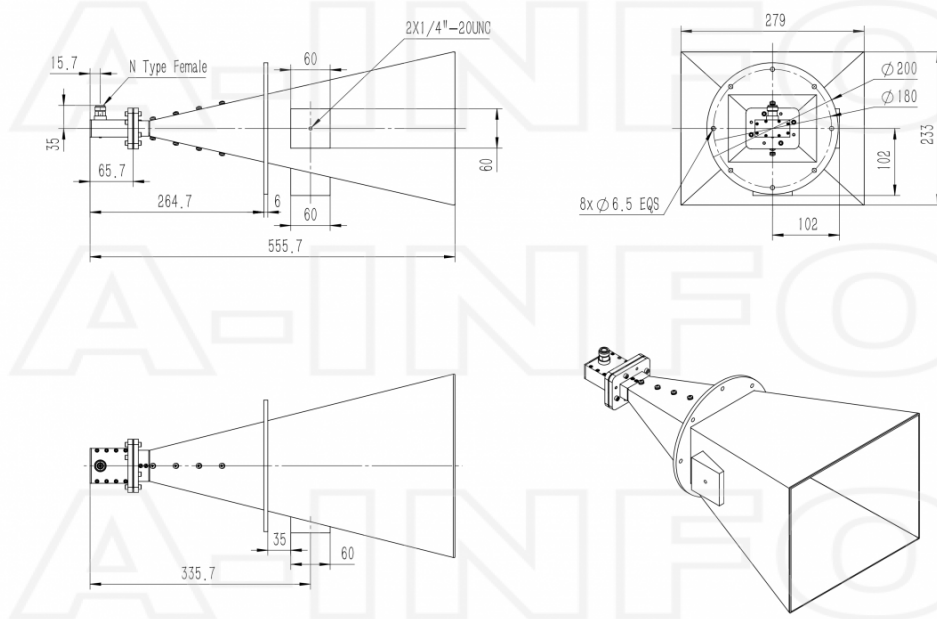
Electrical Specification		Interface	
Frequency, Min (GHz)	2.6	Output Type	Coaxial
Frequency, Max (GHz)	7.8	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD250	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	8	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	24	Size, W (mm)	279
3dB Beamwidth, H-Plane, Min (Deg.)	10	Size, H (mm)	233
3dB Beamwidth, H-Plane, Max (Deg.)	27	Size, L (mm)	555.7
Cross Pol. Isolation, Typ (dB)	35	Weight, (kg)	3.11
VSWR, Typ	1.50:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	1000		
Power Handling, Peak, (W)	3000		

Additional Information

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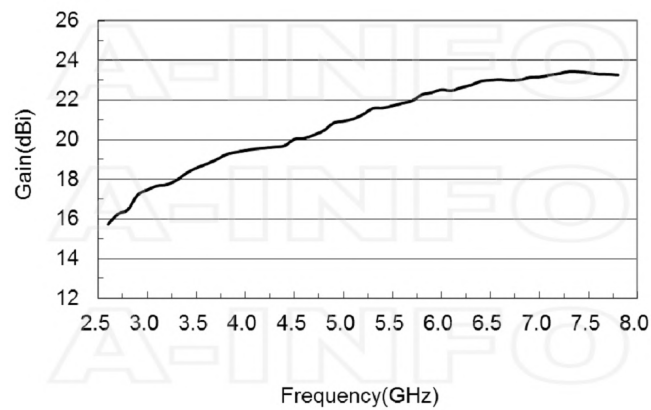
Outline Drawing

High Power N-Female Output (P/N: LB-2678-20-C-HNF)

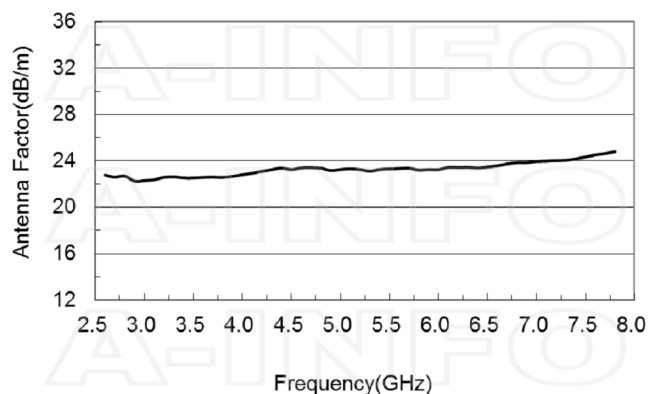


Typical Test Results

Gain



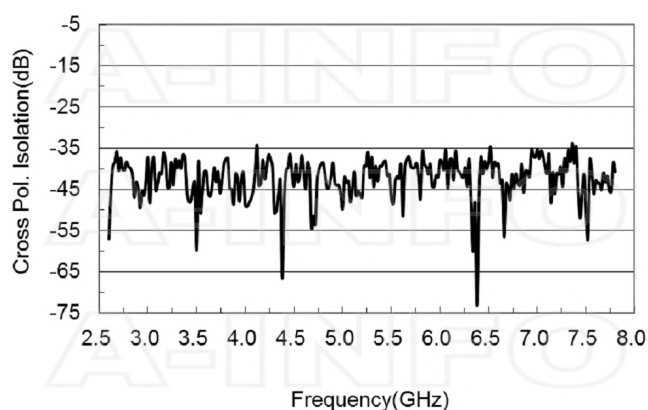
Antenna Factor



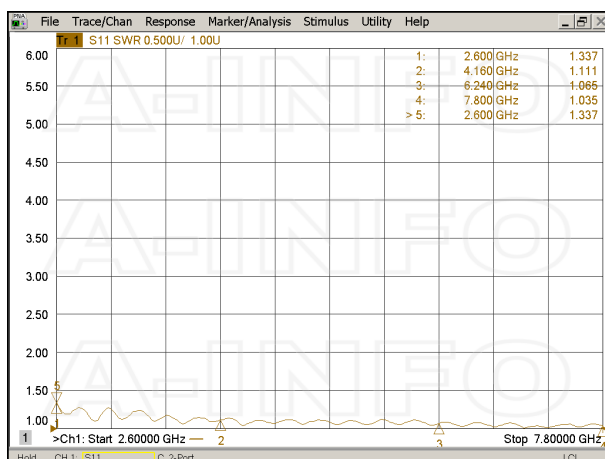
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
2.6	15.74	22.77
3.0	17.46	22.29
3.5	18.57	22.52
4.0	19.45	22.80
4.5	20.02	23.25
5.0	20.93	23.26
5.5	21.71	23.31
6.0	22.52	23.25
6.5	23.00	23.47
7.0	23.16	23.95
7.5	23.37	24.34
7.8	23.26	24.79

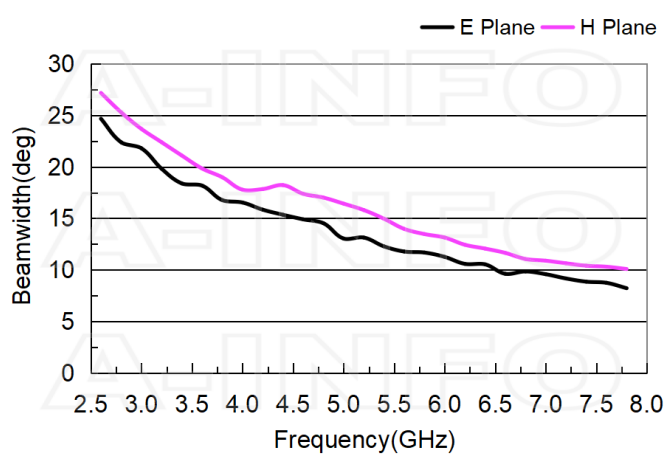
Cross Polarization Isolation



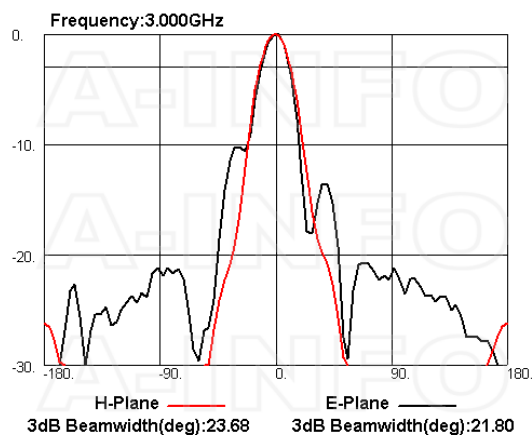
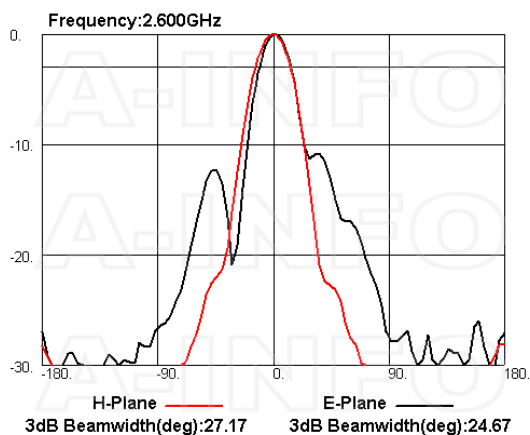
VSWR

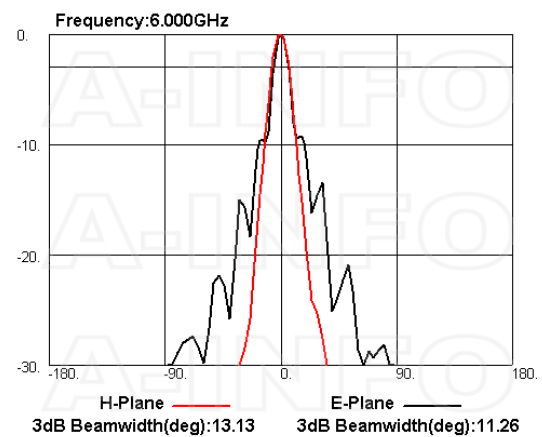
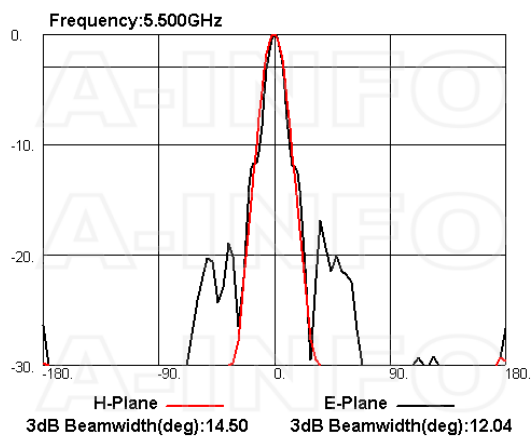
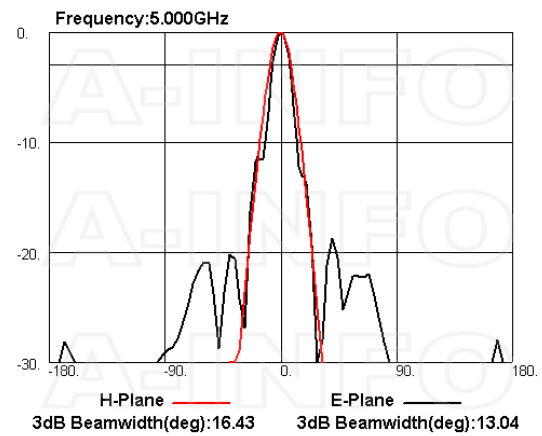
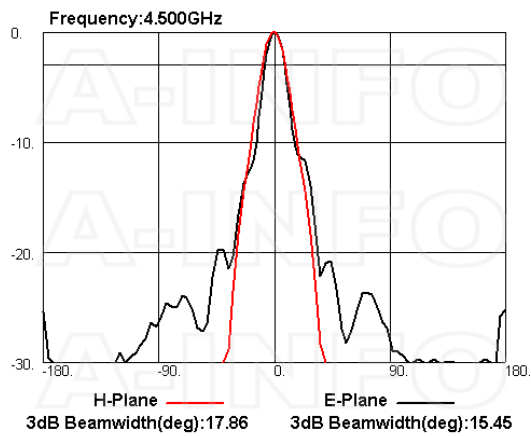
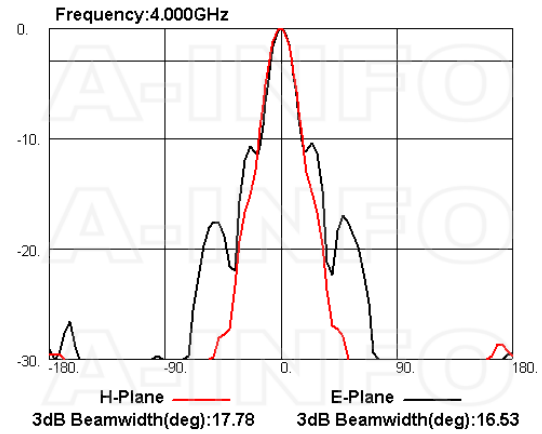
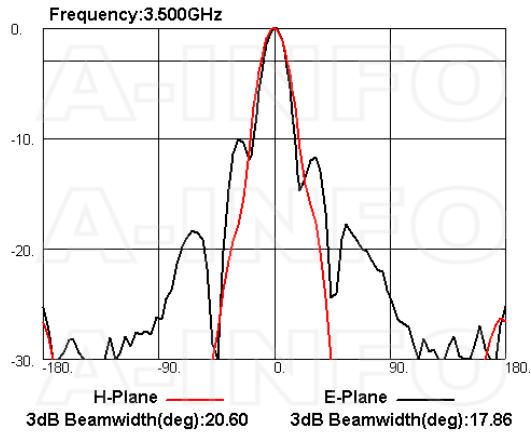


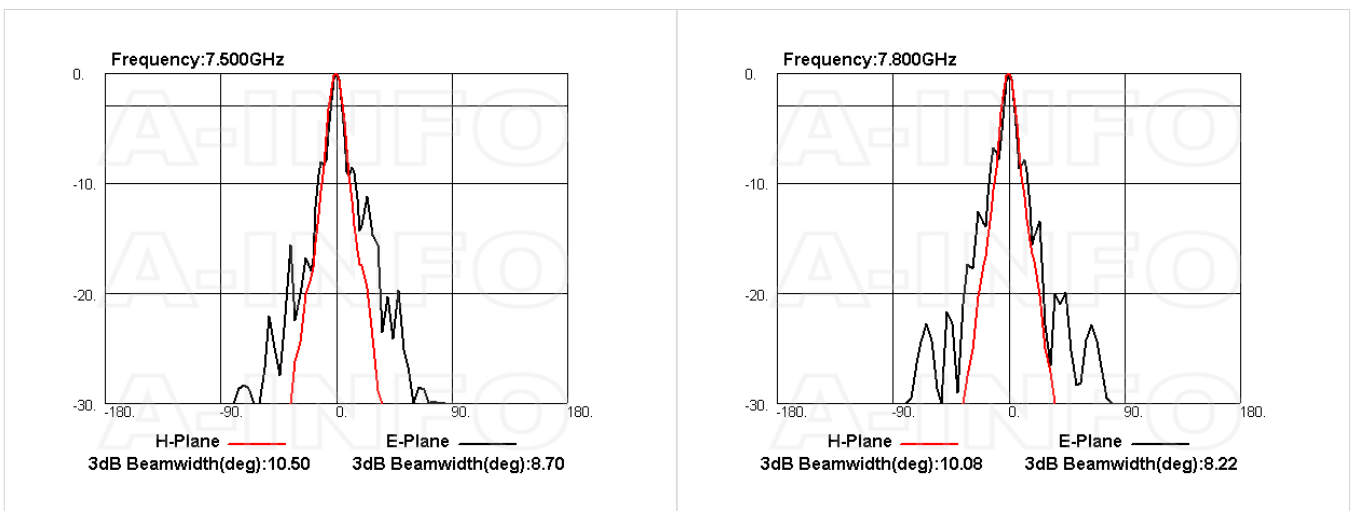
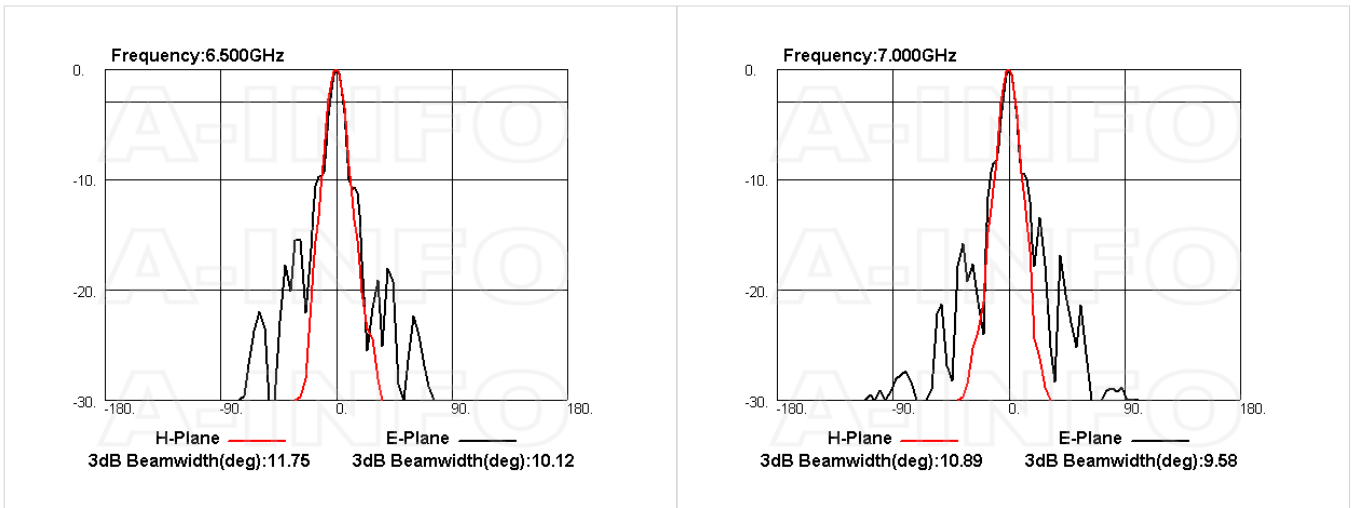
Beamwidth



Pattern







Related Products



LB-90-25-MB2 Round Type Mounting Bracket



LB-90-25-L2 L Type Mounting Bracket



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

About this Datasheet

<ul style="list-style-type: none">● Product Information <p>Product Link: https://www.ainfoinc.com/lb-2678-20-c-hnf-multi-octave-horn-antenna-2-6-7-8-ghz-20db-gain-high-power-n-type-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none">● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none">● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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