

LB-60180-23-C-HNF Multi Octave Horn Antenna 6-18GHz 23dB Gain  
High Power N Type Female



Multi Octave Horn Antenna Operating From 6GHz to 18GHz With a Nominal 23dB Gain With High Power N Type Female Connector

### Product Information

SKU	LB-60180-23-C-HNF
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### Description

Multi octave horn antenna LB-60180-23-C-HNF, operating from 6 to 18GHz with a nominal 23dB gain and low VSWR 1.25:1 with High Power N Type Female output connector. The model LB-60180-23-C-HNF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 500W 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

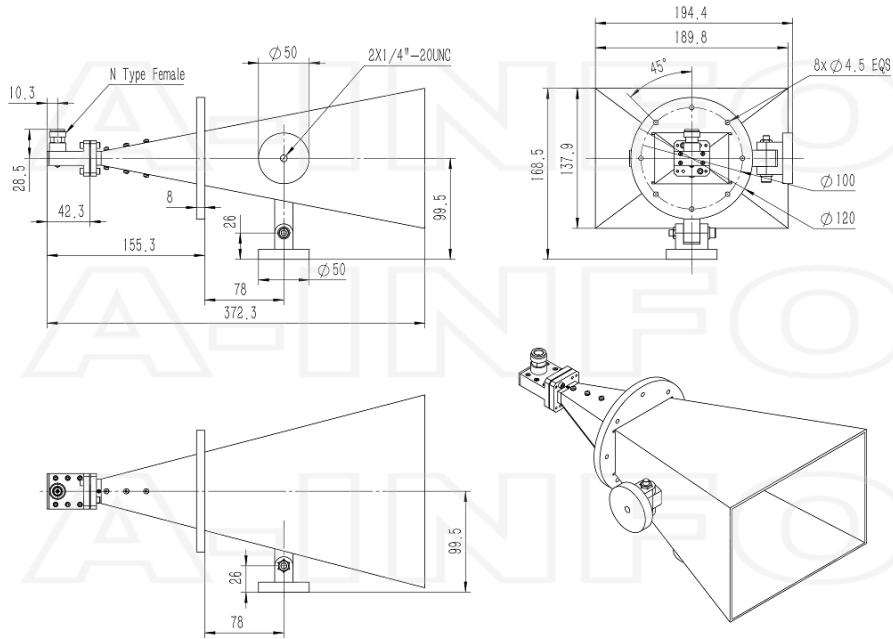
Electrical Specification		Interface	
Frequency, Min (GHz)	6	Output Type	Coaxial
Frequency, Max (GHz)	18	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD650	Mechanical Specification	
Gain, Typ (dBi)	23	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	6	Finish	Gold Plated and Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	22	Size, W (mm)	194.4
3dB Beamwidth, H-Plane, Min (Deg.)	7	Size, H (mm)	168.5
3dB Beamwidth, H-Plane, Max (Deg.)	21	Size, L (mm)	372.3
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	1.58
VSWR, Typ	1.25:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	500		
Power Handling, Peak, (W)	3000		

## Additional Information

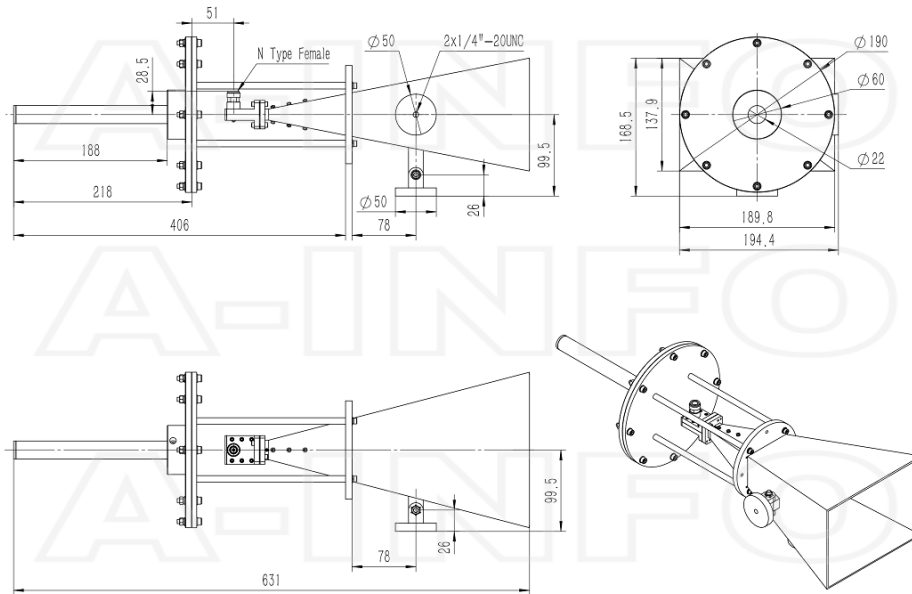
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

High Power N-Female Output (P/N: LB-60180-23-C-HNF)

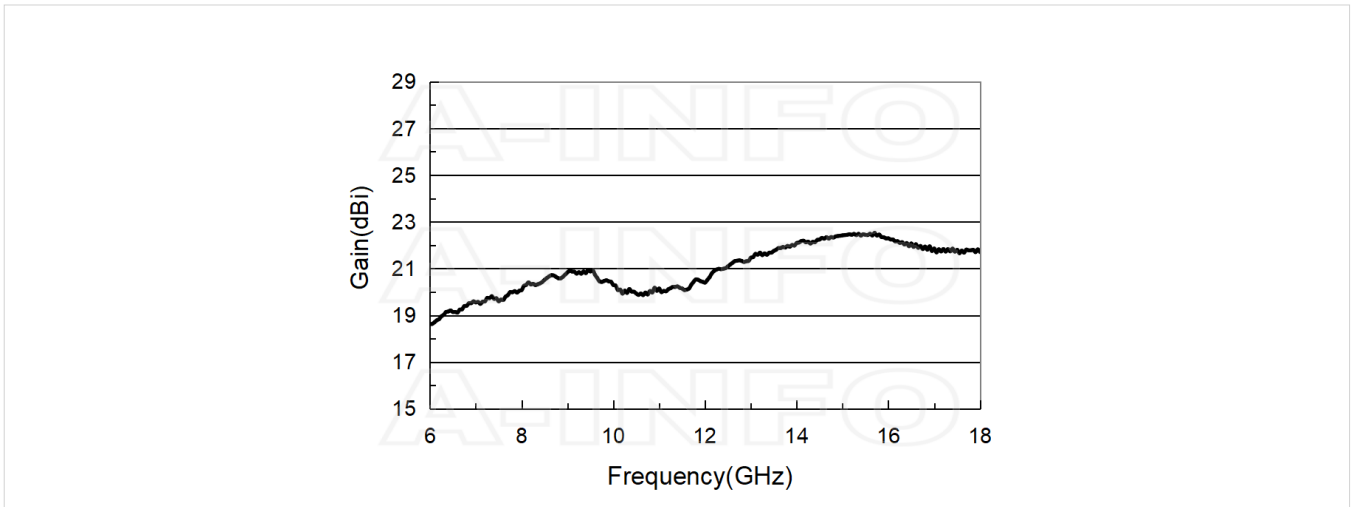


High Power N-Female Output with Stinger Type Mounting Bracket (Option, P/N: LB-60180-23-C-MA)

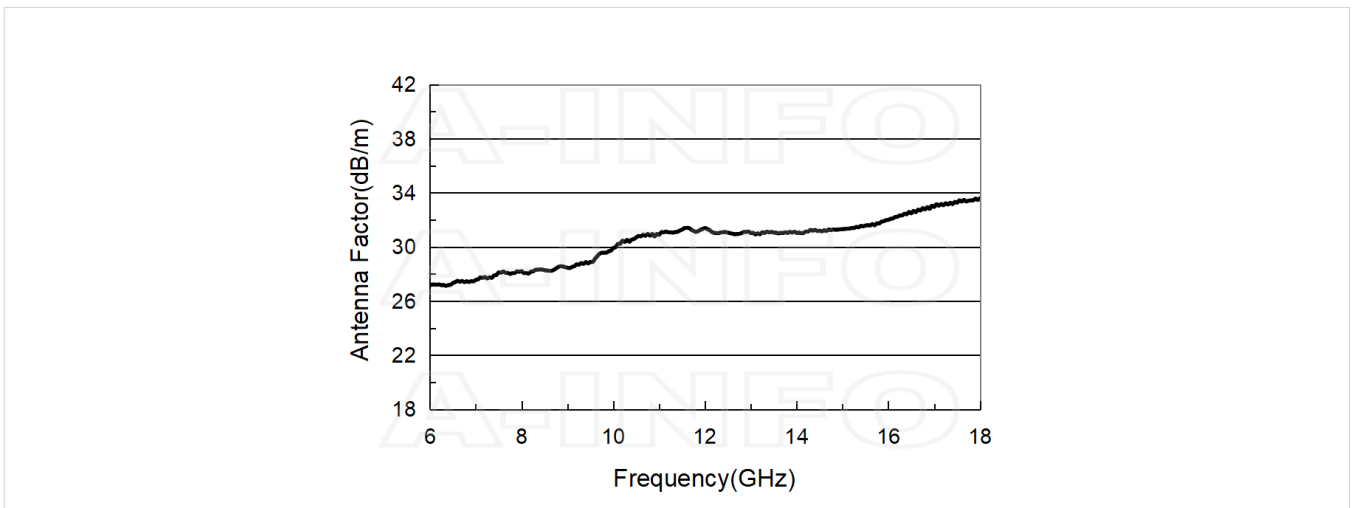


## Typical Test Results

### Gain



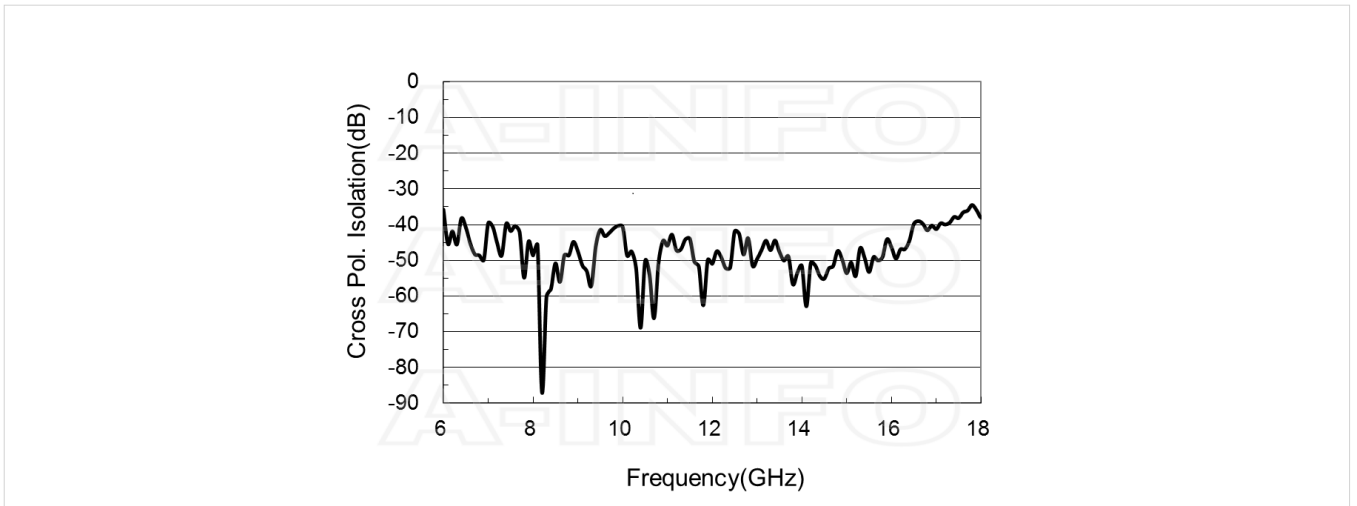
### Antenna Factor



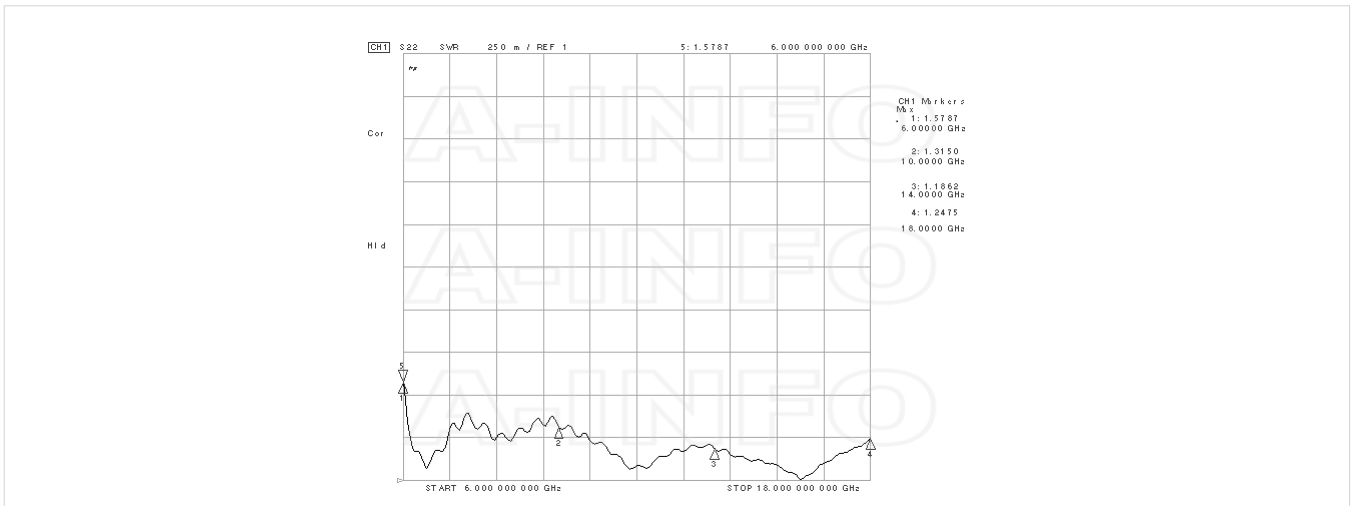
### Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
6.0	18.62	27.16
7.0	19.55	27.56
8.0	20.08	28.20
9.0	20.84	28.46
10.0	20.30	29.91
11.0	20.14	30.90
12.0	20.40	31.40
13.0	21.46	31.03
14.0	22.09	31.04
15.0	22.42	31.31
16.0	22.29	32.00
17.0	21.85	32.96
18.0	21.70	33.61

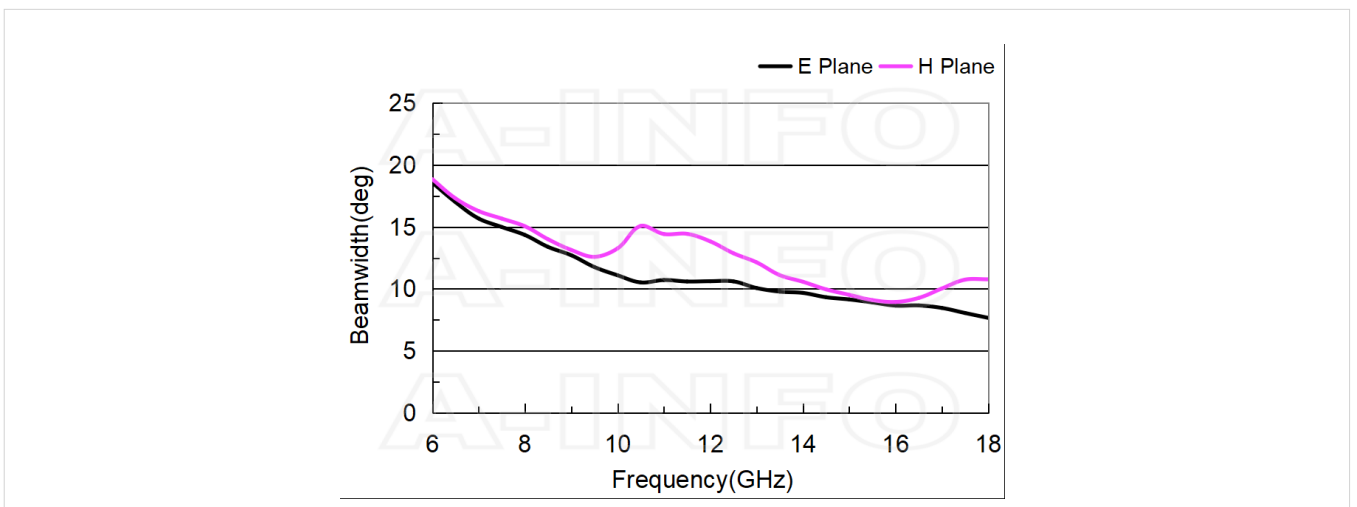
## Cross Polarization Isolation



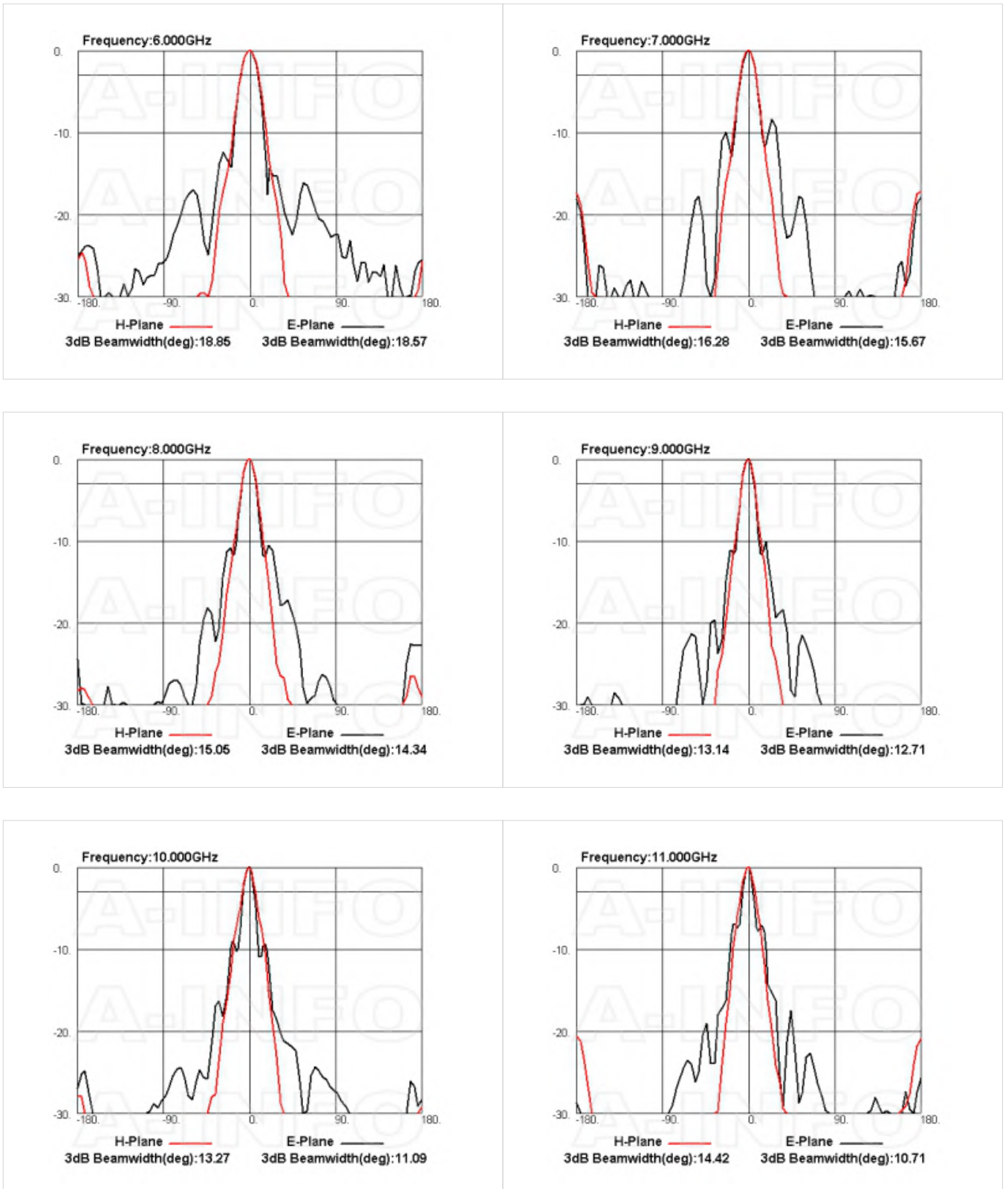
## VSWR

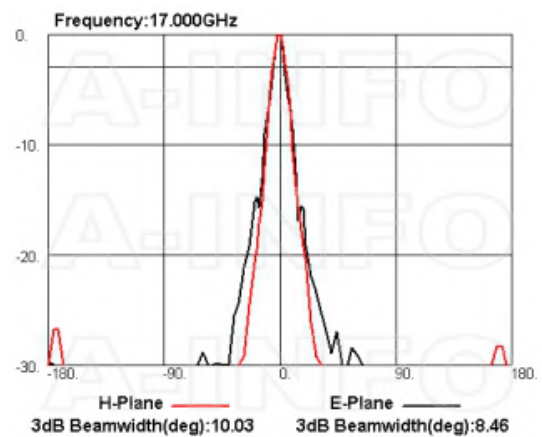
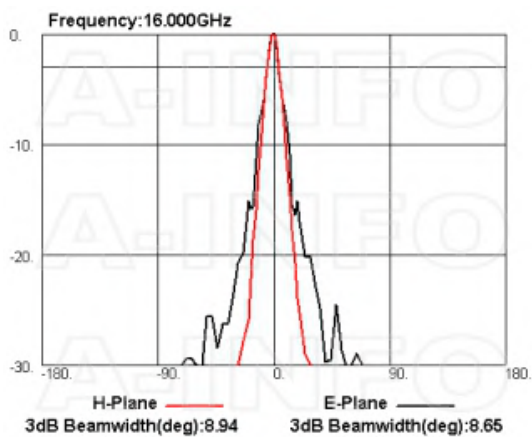
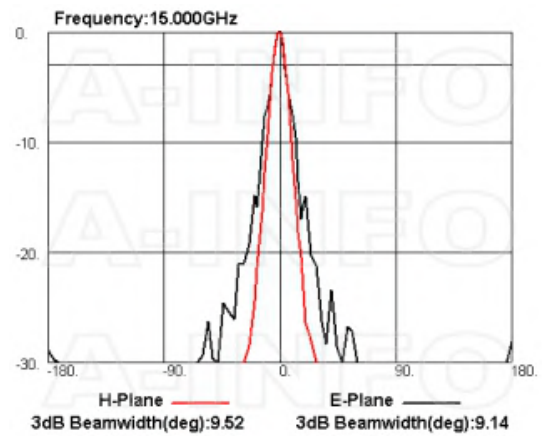
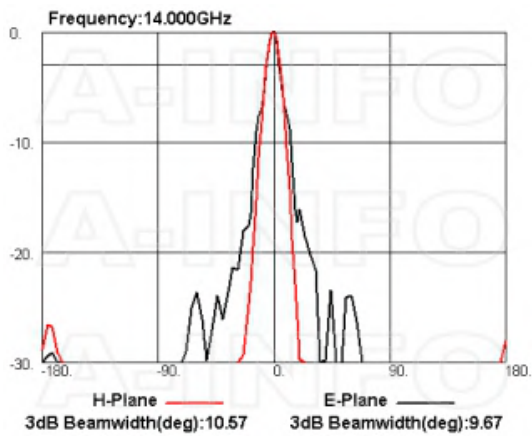
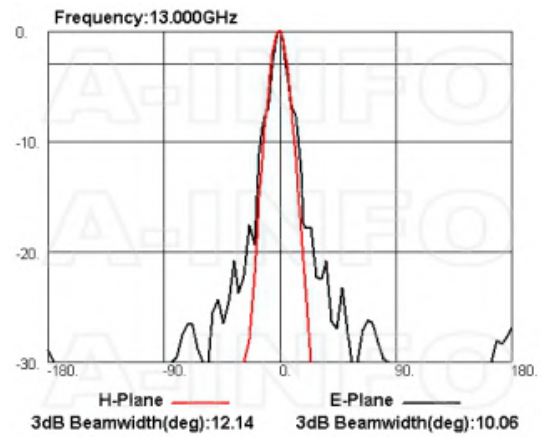
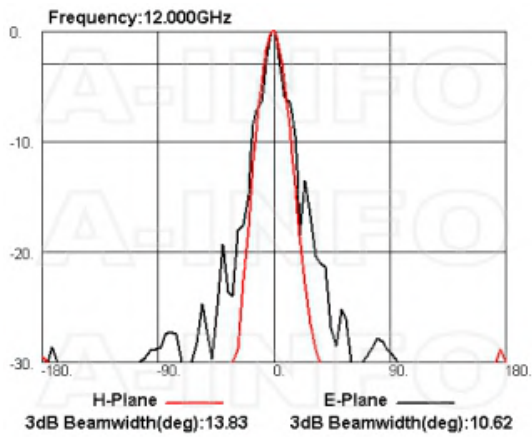


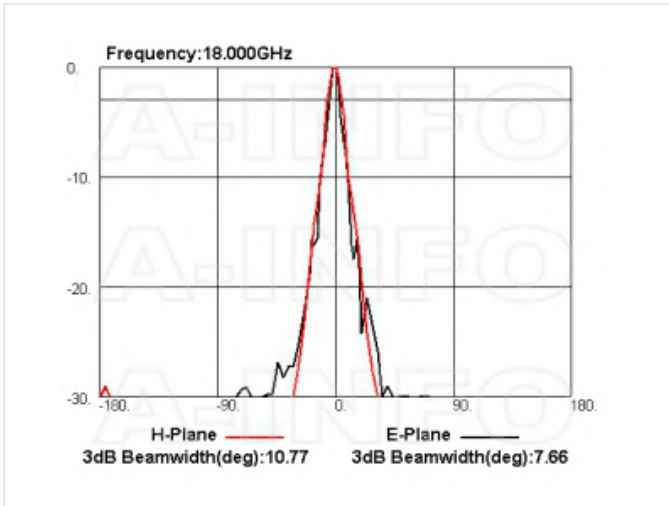
## Beamwidth



Pattern







## Related Products



LB-51-25-MB2 Round Type Mounting Bracket



LB-51-25-L2 L type mounting bracket



LB-60180-23-C-MA Stinger Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033QM Wooden Tripod Metalfree



3033HL Wooden Tripod



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-60180-23-A Multi Octave Horn Antenna 6-18GHz 23dB Gain Double Ridge Waveguide Interface



LB-60180-23-C-NF Multi Octave Horn Antenna 6-18GHz 23dB Gain N Type Female



LB-60180-23-C-SF Multi Octave Horn Antenna 6-18GHz 23dB Gain SMA Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b> Product Link: <a href="https://www.ainfoinc.com/lb-60180-23-c-hnf-multi-octave-horn-antenna-6-18-ghz-23db-gain-high-power-n-type-female">https://www.ainfoinc.com/lb-60180-23-c-hnf-multi-octave-horn-antenna-6-18-ghz-23db-gain-high-power-n-type-female</a>  Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Contact Us</b> Address: 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>
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