



LB-1536-15-C-NF Multi Octave Horn Antenna 1.5-3.6GHz 15dB Gain N Type Female

Multi Octave Horn Antenna Operating From 1.5GHz to 3.6GHz With a Nominal 15dB Gain With N Type Female Connector

### Product Information

SKU	LB-1536-15-C-NF
-----	-----------------

### Description

Multi octave horn antenna LB-1536-15-C-NF, operating from 1.5 to 3.6GHz with a nominal 15dB gain and low VSWR 1.25:1 with N Type Female output connector. The model LB-1536-15-C-NF 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

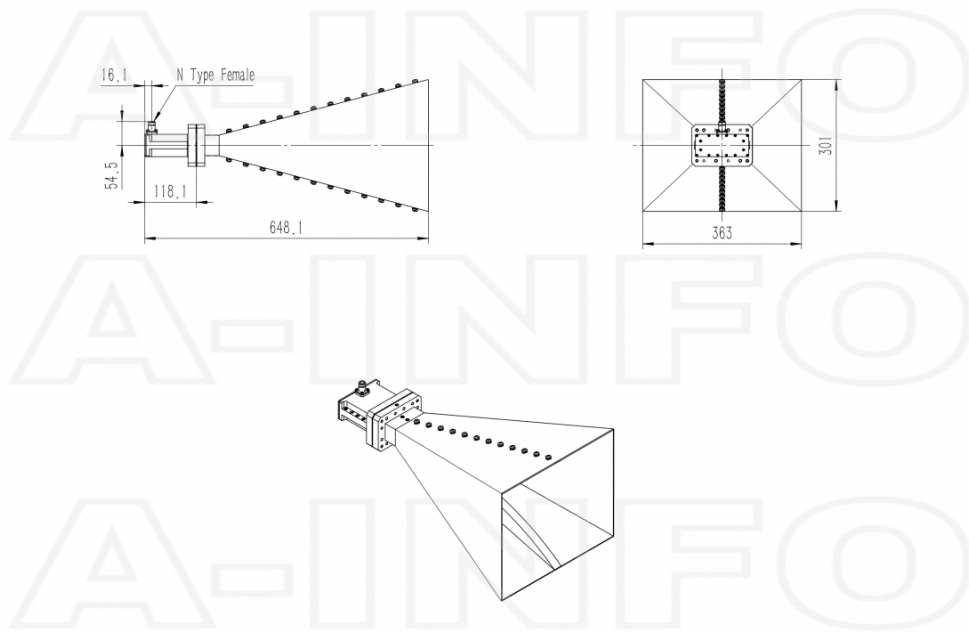
Electrical Specification		Interface	
Frequency, Min (GHz)	1.5	Output Type	Coaxial
Frequency, Max (GHz)	3.6	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD150	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	19	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	39	Size, W (mm)	363
3dB Beamwidth, H-Plane, Min (Deg.)	20	Size, H (mm)	301
3dB Beamwidth, H-Plane, Max (Deg.)	42	Size, L (mm)	648.1
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	6.63
VSWR, Typ	1.25:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	500		
Power Handling, Peak, (W)	3000		

### Additional Information

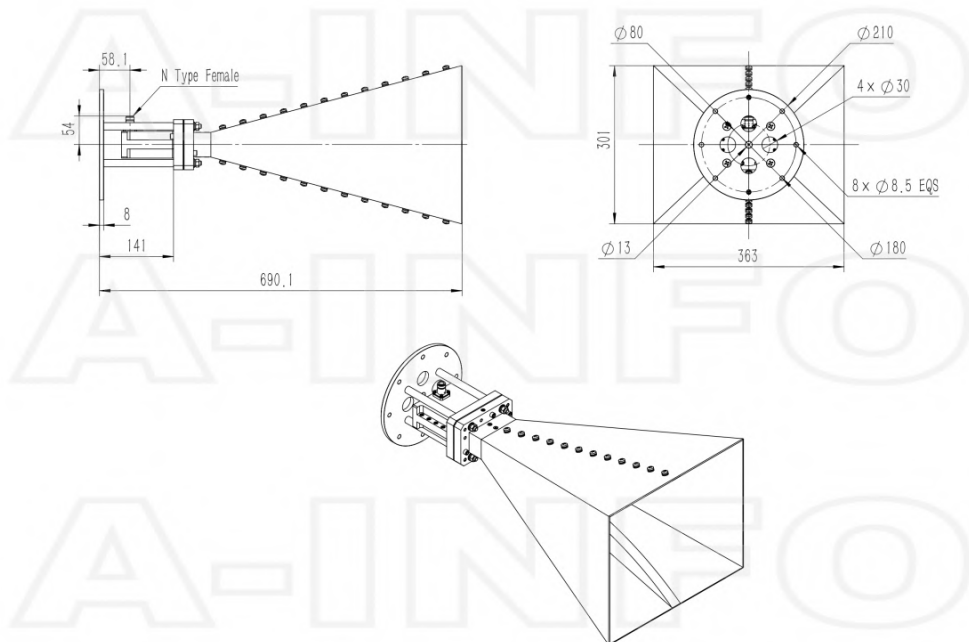
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
-------------	---	--------------	---

## Outline Drawing

N-Female Output (P/N: LB-1536-15-C-NF)

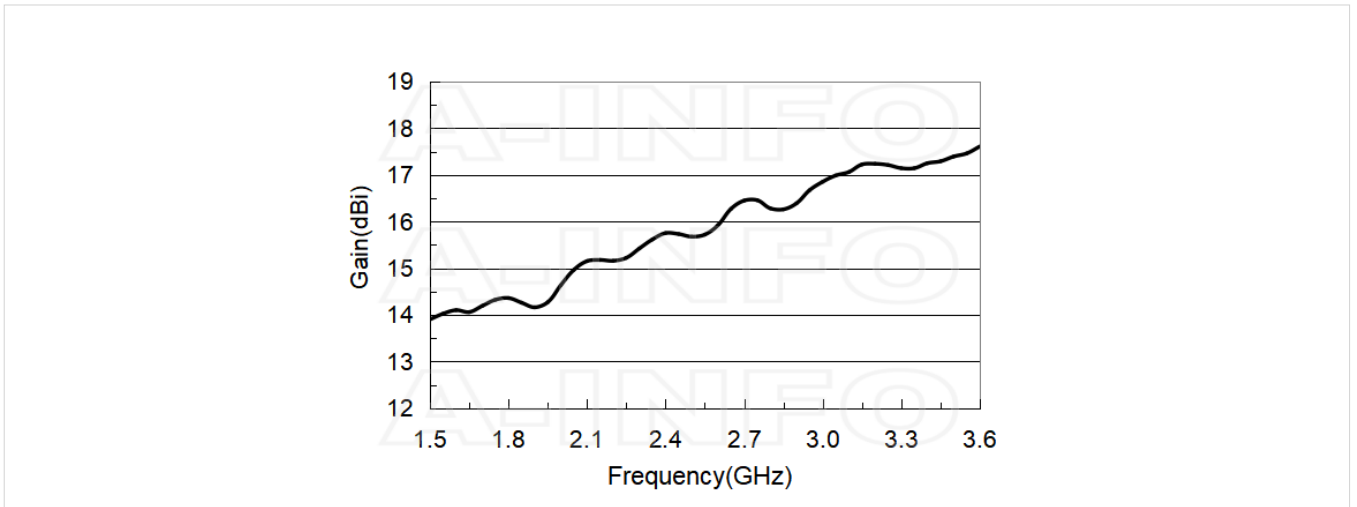


N-Female Output with Round Mounting Bracket (Option, P/N: LB-1536-10-C-MB)

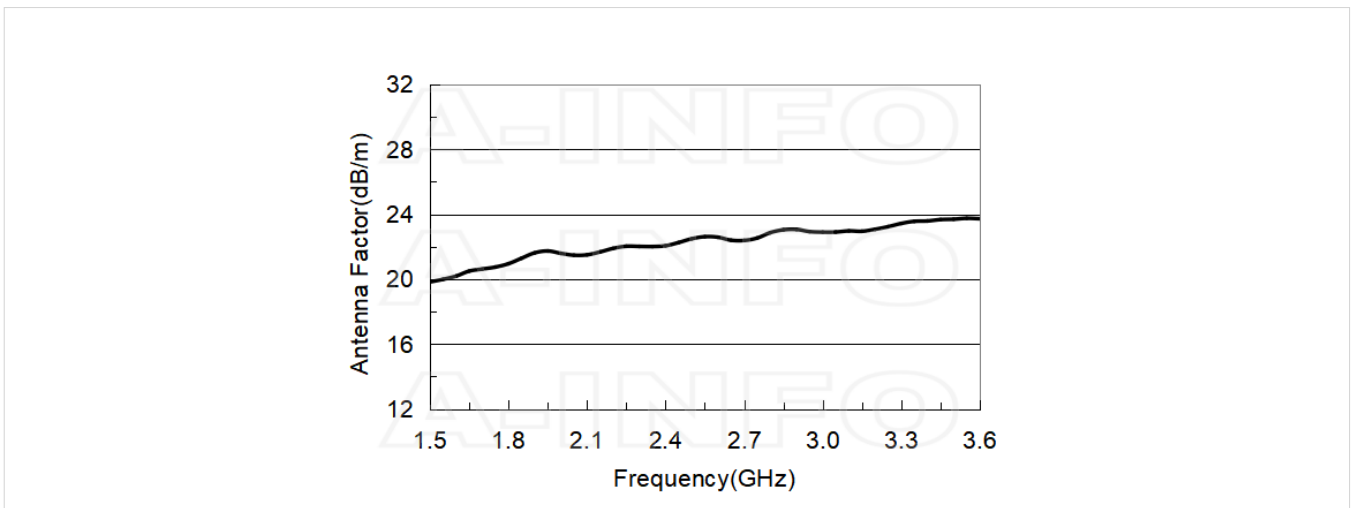


## Typical Test Results

### Gain



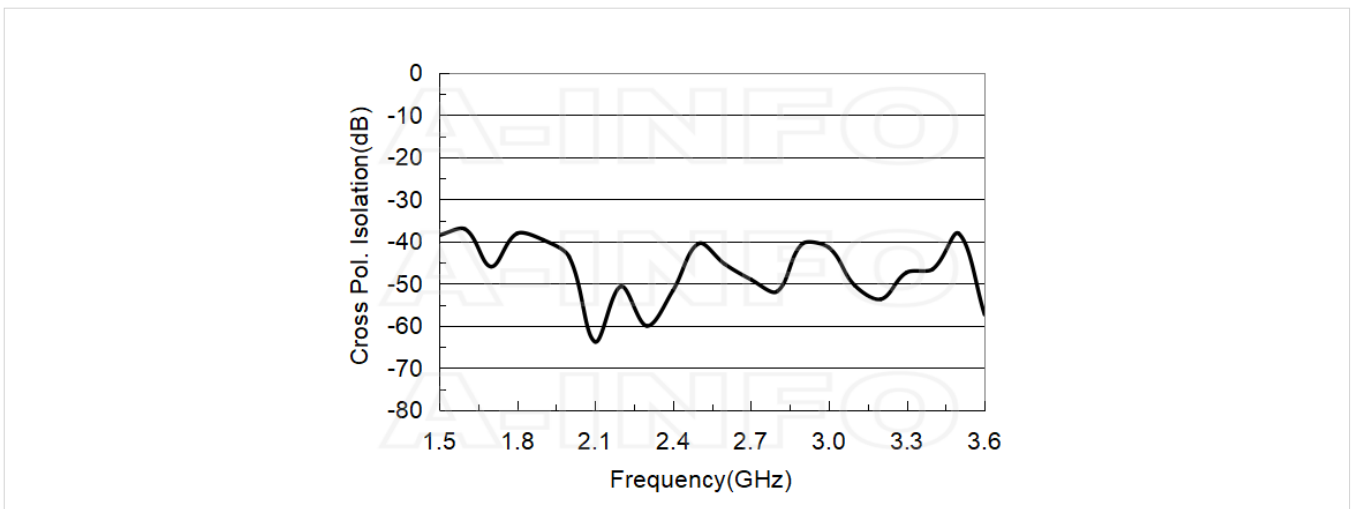
### Antenna Factor



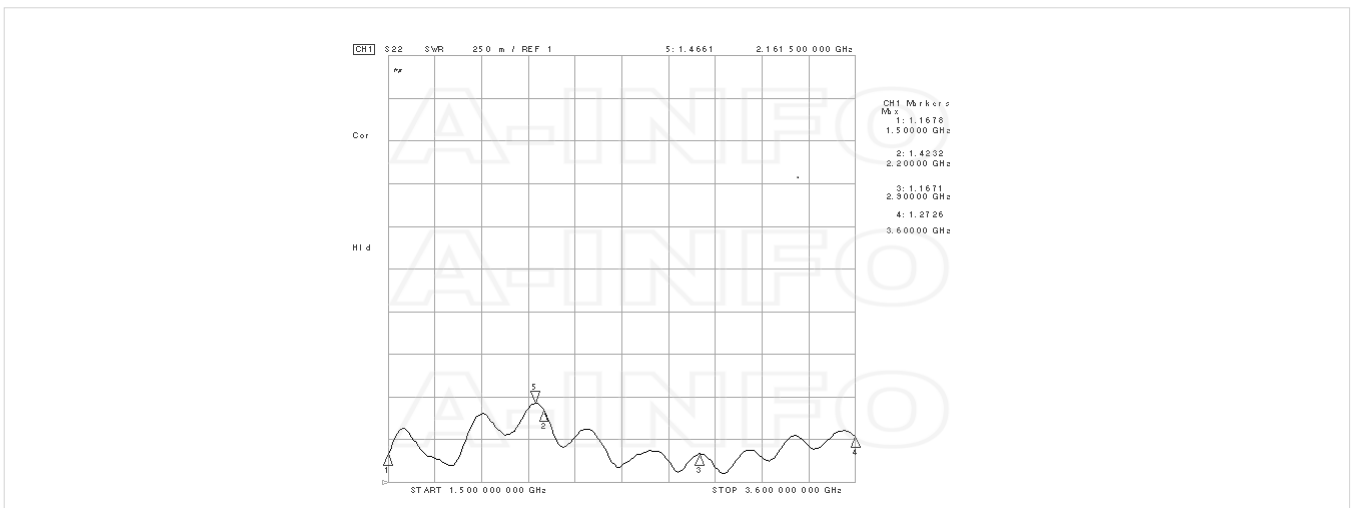
### Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	AF (dB/m)
1.5	13.90	19.83
1.6	14.10	20.19
1.8	14.36	20.95
2.0	14.64	21.59
2.2	15.16	21.90
2.4	15.75	22.06
2.6	15.92	22.59
2.8	16.28	22.87
3.0	16.85	22.90
3.2	17.24	23.07
3.4	17.25	23.59
3.6	17.61	23.73

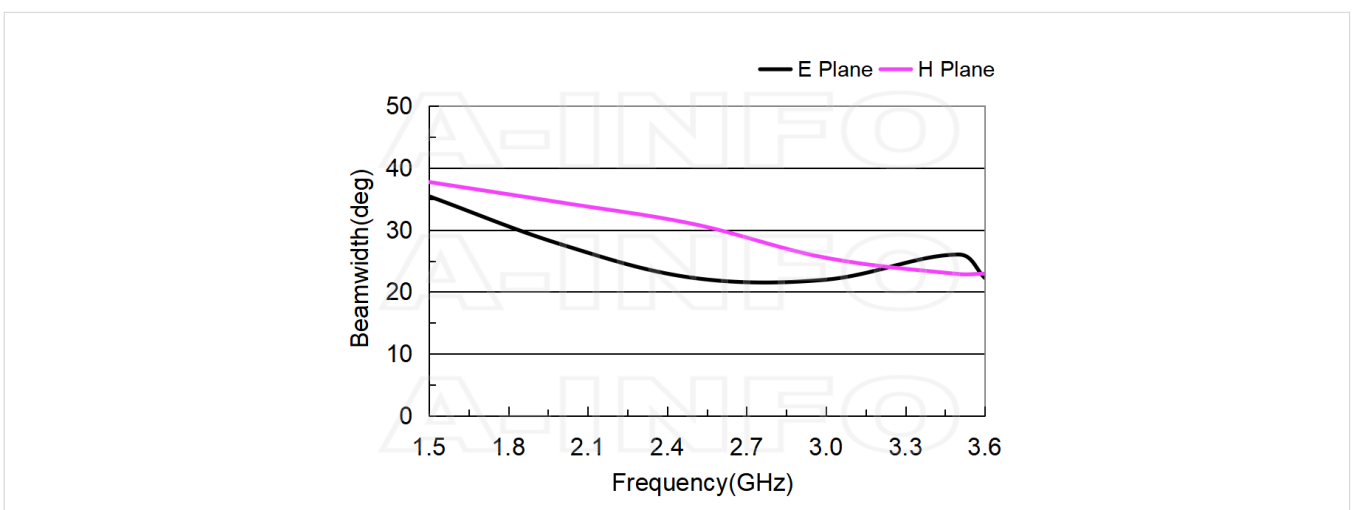
## Cross Polarization Isolation



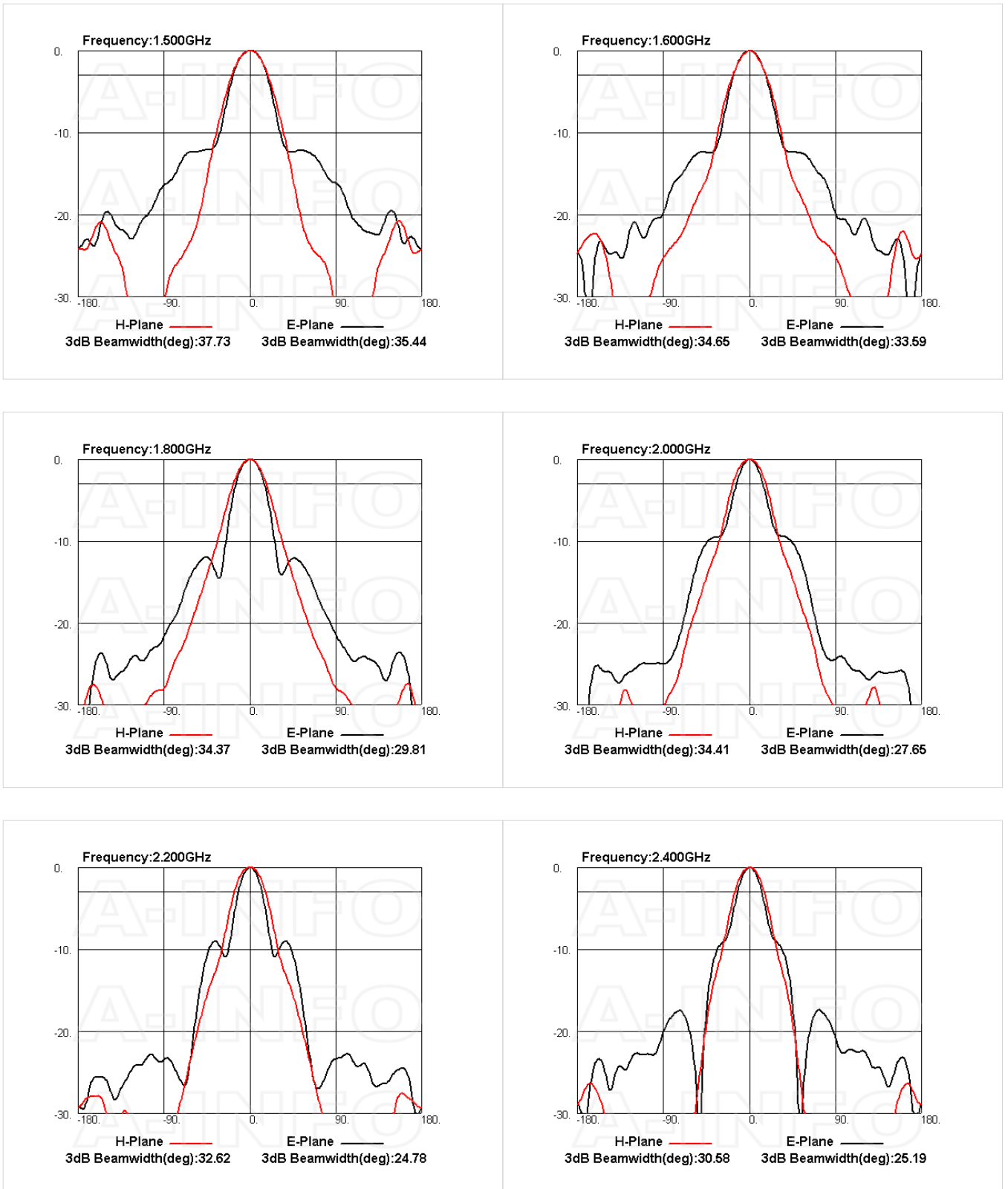
## VSWR

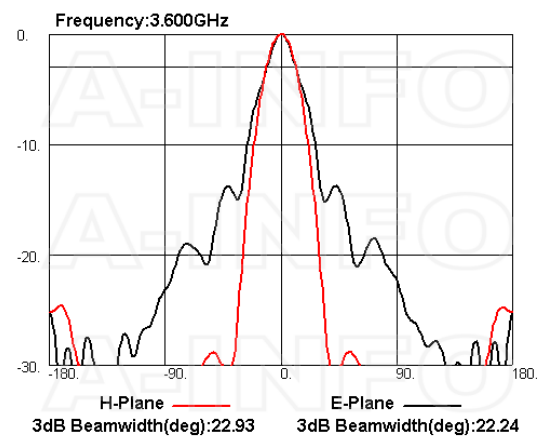
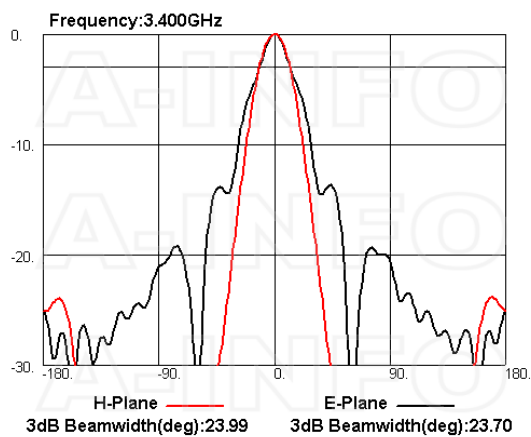
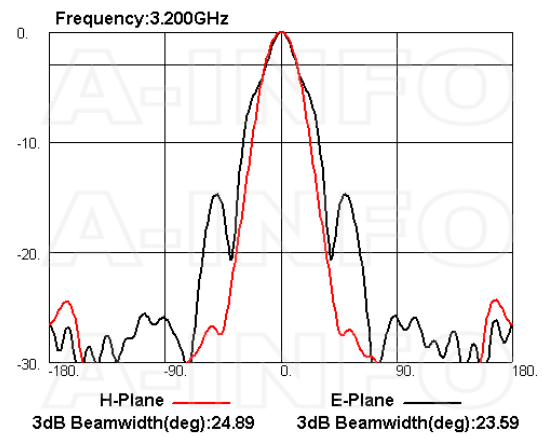
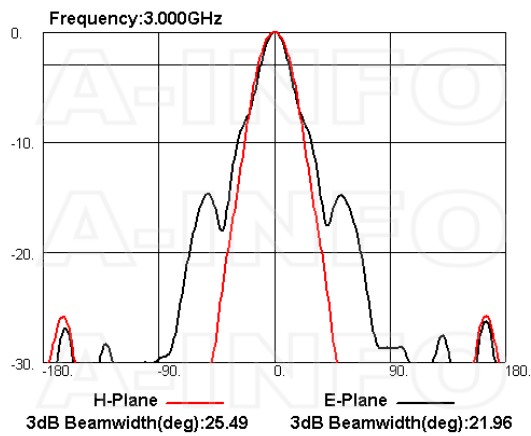
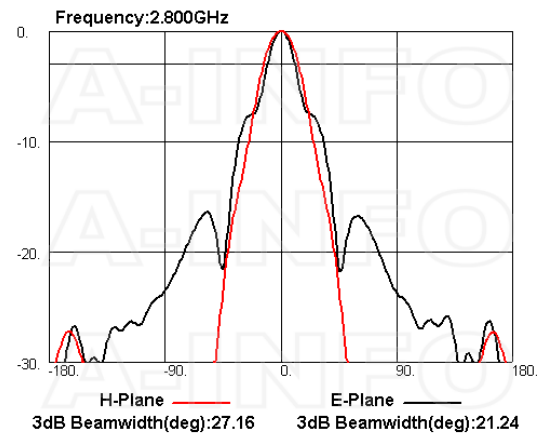
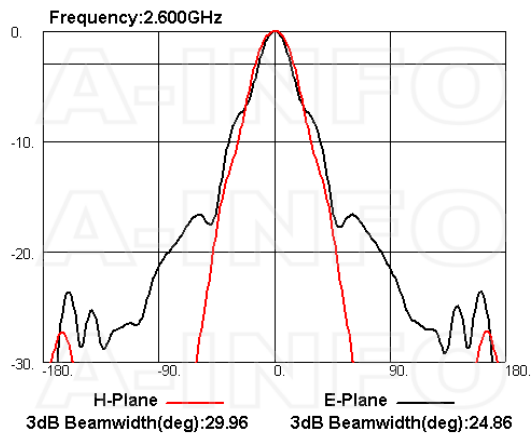


## Beamwidth



## Pattern





## Related Products



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

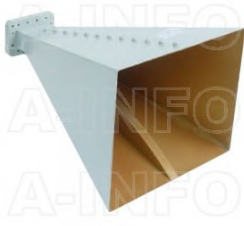


NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



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

## Similar Products



LB-1536-15-A Multi Octave Horn  
Antenna 1.5-3.6GHz 15dB Gain  
Double Ridge Waveguide  
Interface

## About this Datasheet

<ul style="list-style-type: none"><li>● <b>Product Information</b></li></ul> <p>Product Link: <a href="https://www.ainfoinc.com/lb-1536-15-c-nf-multi-octave-horn-antenna-1-5-3-6-ghz-15db-gain-n-type-female">https://www.ainfoinc.com/lb-1536-15-c-nf-multi-octave-horn-antenna-1-5-3-6-ghz-15db-gain-n-type-female</a> Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"><li>● <b>Contact Us</b></li></ul> <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: <a href="http://www.ainfoinc.com">www.ainfoinc.com</a></p> <p>Email: <a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></p>	<ul style="list-style-type: none"><li>● <b>Phone &amp; Fax</b></li></ul> <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
--	---	--