

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

Multi Octave Horn Antenna From 1.5GHz to 3.6GHz With a Nominal 15dB Gain With Double Ridge Waveguide Interface

## Product Information

SKU	LB-1536-15-A
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## Description

Multi octave horn antenna LB-1536-15-A, operating from 1.5 to 3.6GHz with a nominal 15dB gain and low VSWR 1.25:1 with FPWRD150D24 output. The model LB-1536-15-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. 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

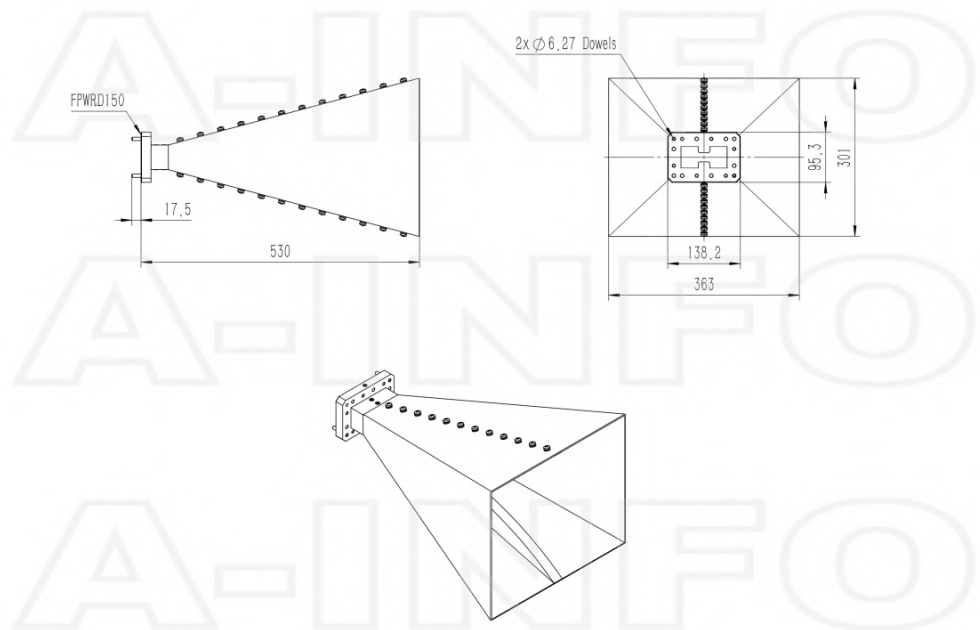
Electrical Specification		Interface	
Frequency, Min (GHz)	1.5	Output Type	Waveguide
Frequency, Max (GHz)	3.6	Flange Designation, WRD	FPWRD150D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD150	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	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)	530
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	5.32
VSWR, Typ	1.25:1		

## Additional Information

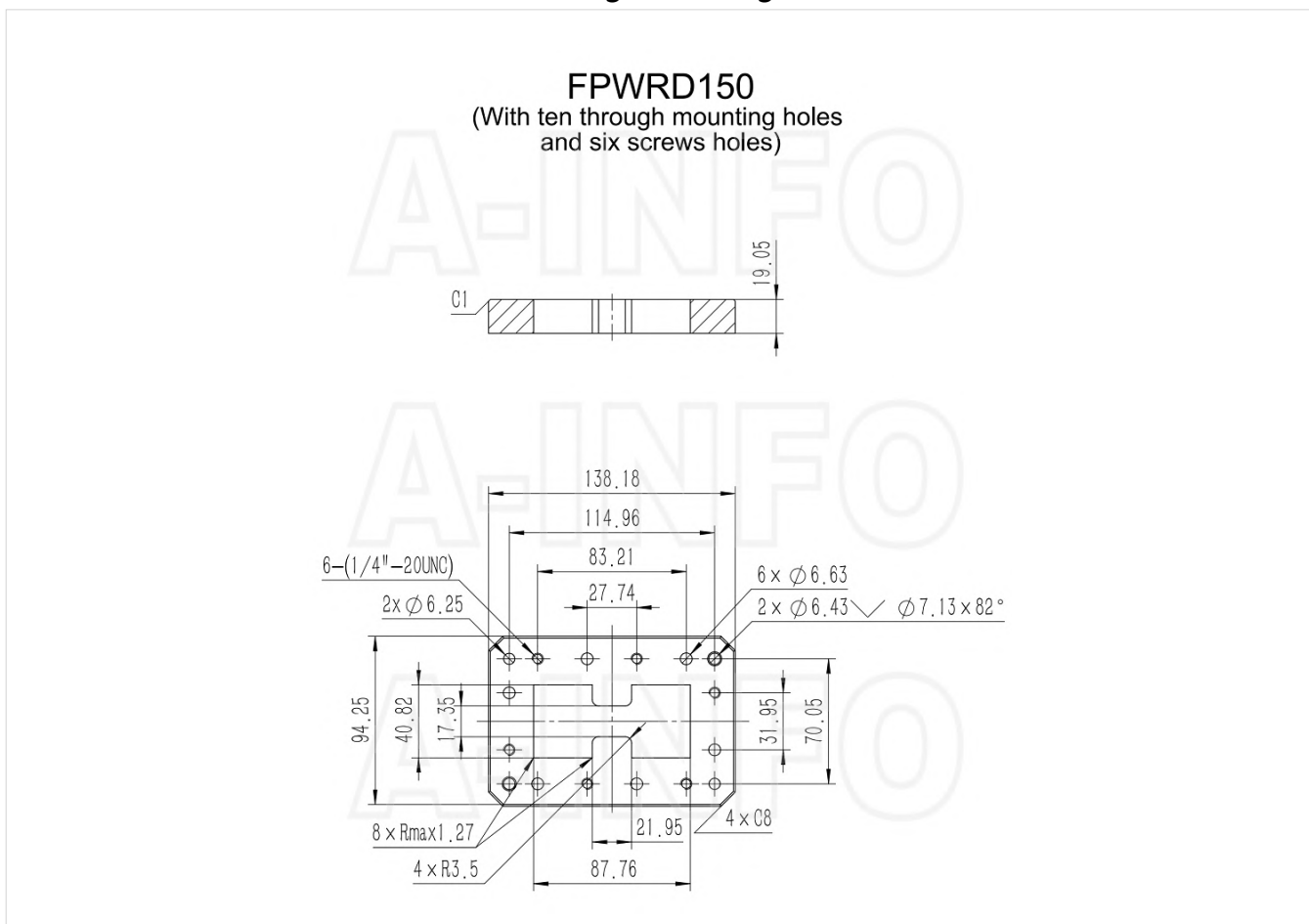
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

FPWRD150 Output (P/N: LB-1536-15-A)

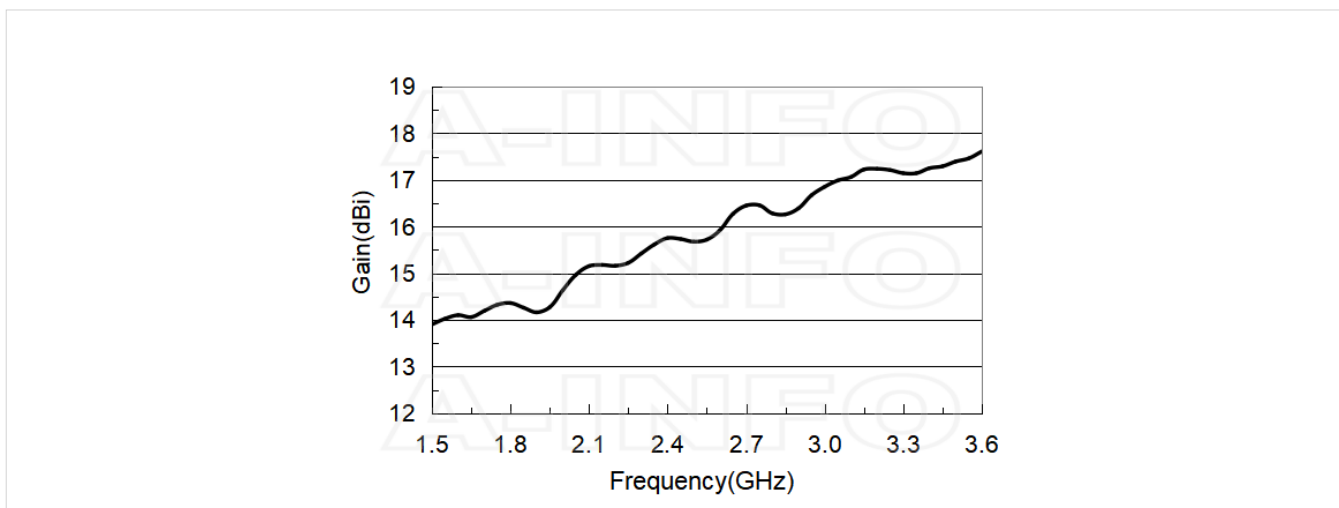


Flange Drawing

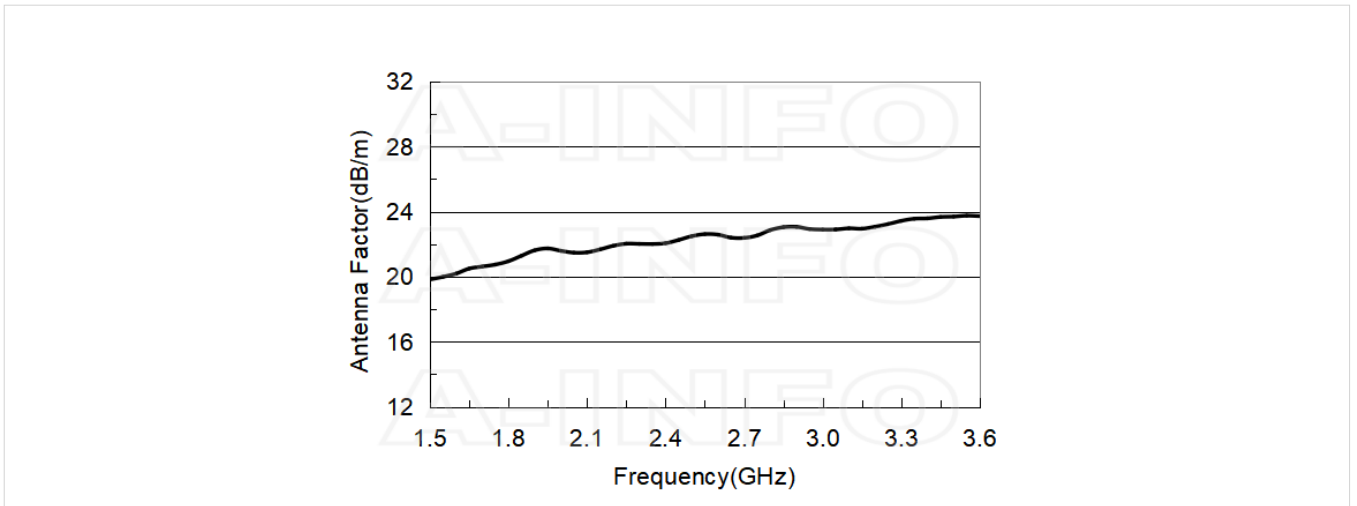


Typical Test Results

Gain



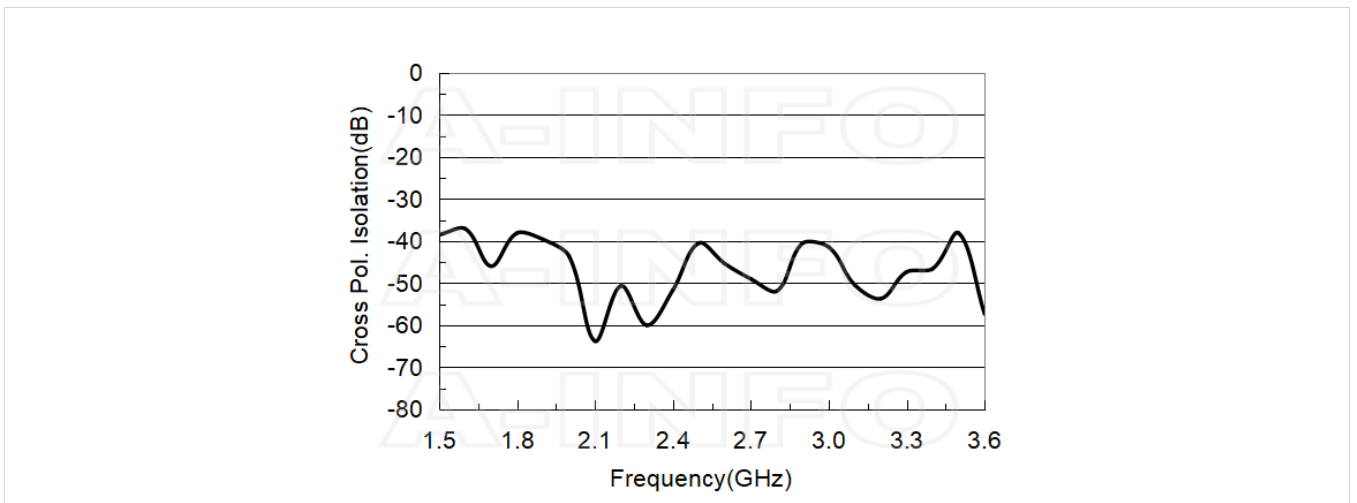
## Antenna Factor



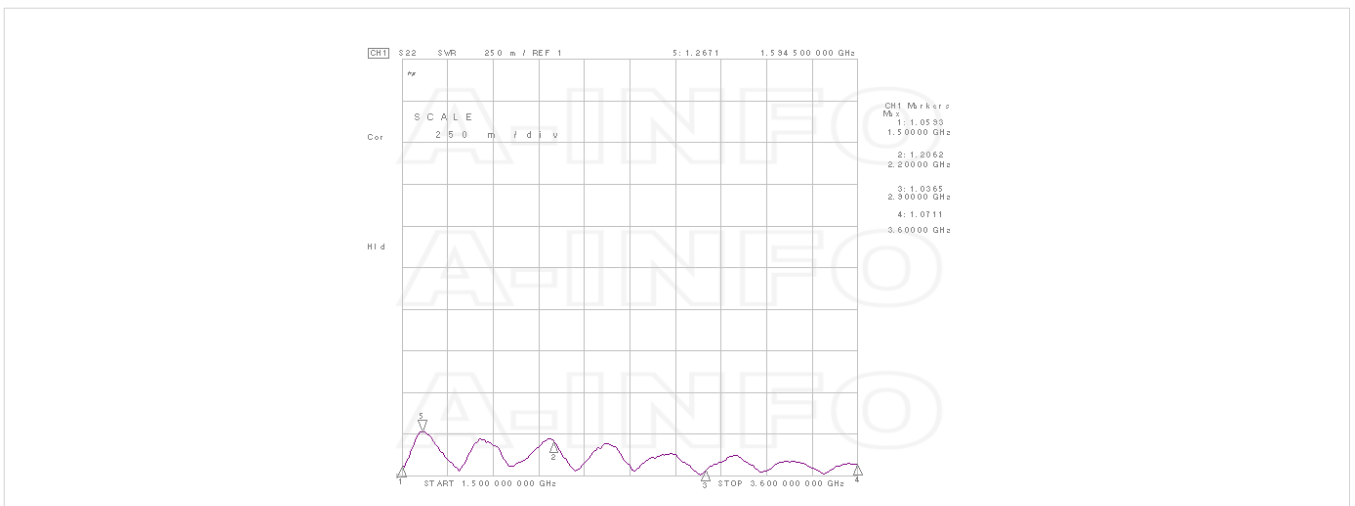
## Antenna Factor (Table)

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

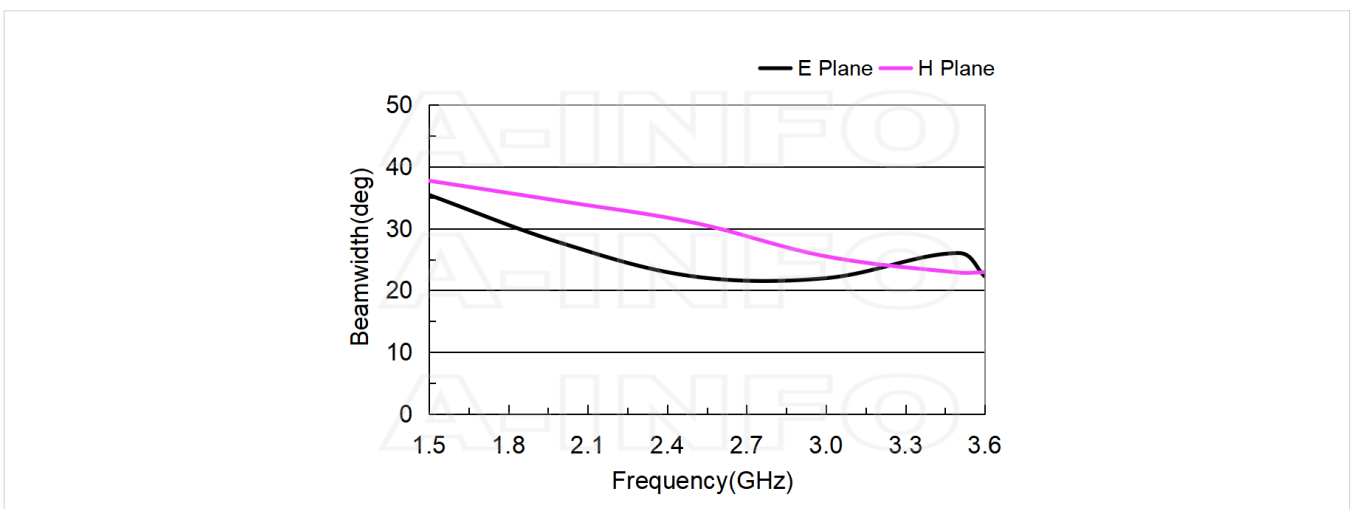
## Cross Polarization Isolation



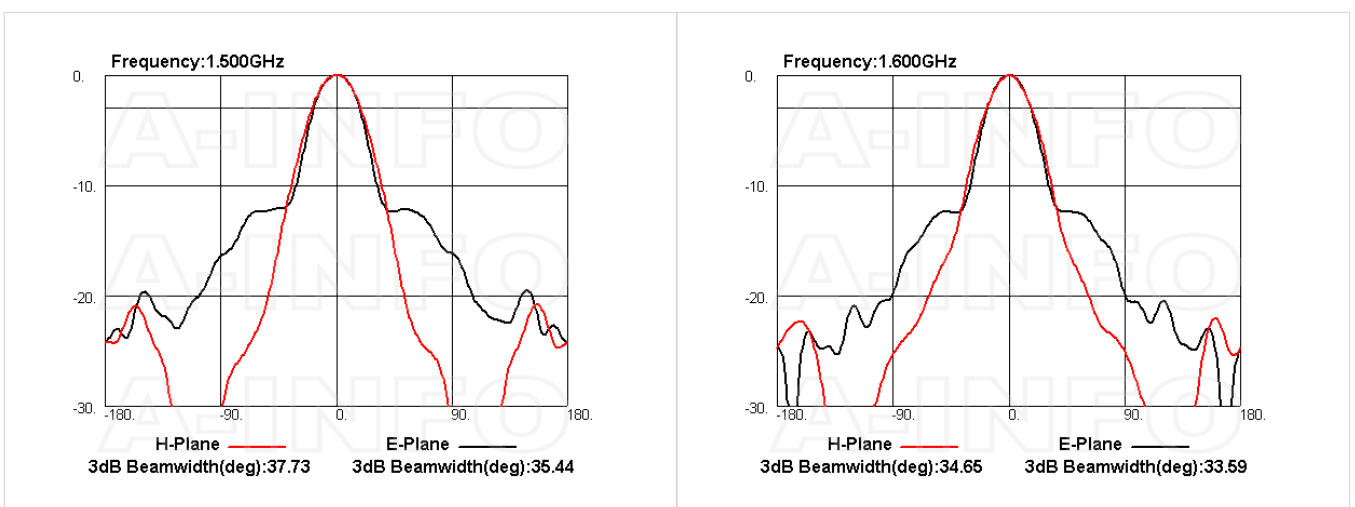
## VSWR

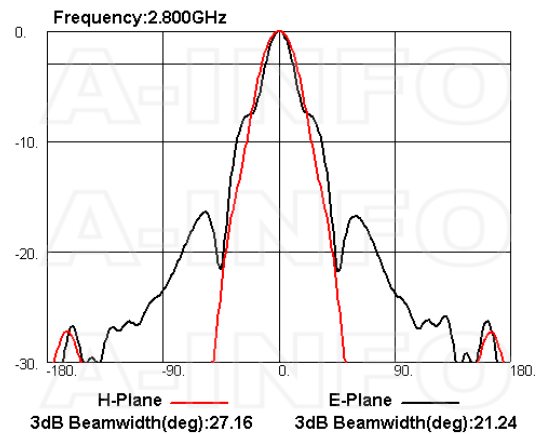
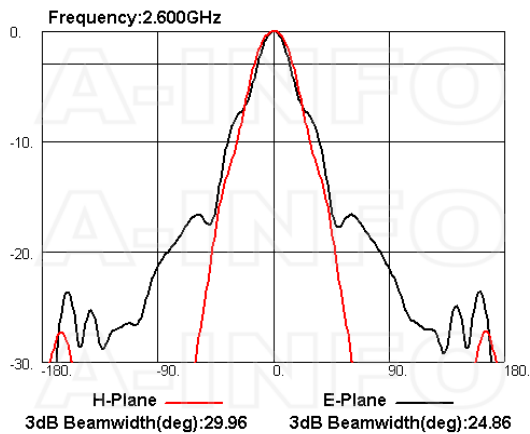
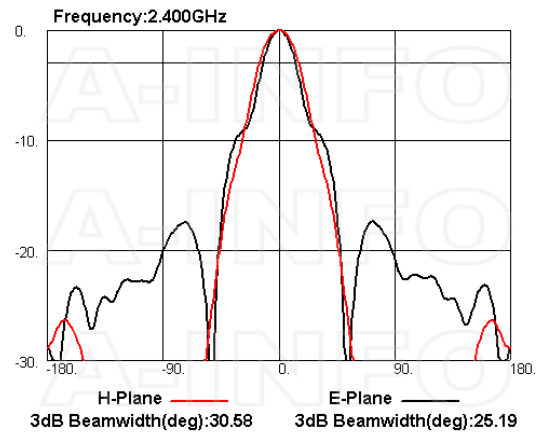
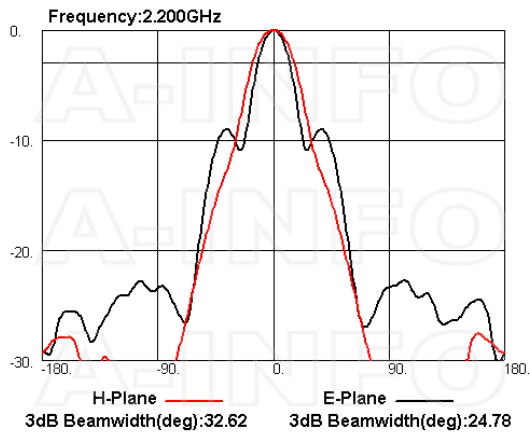
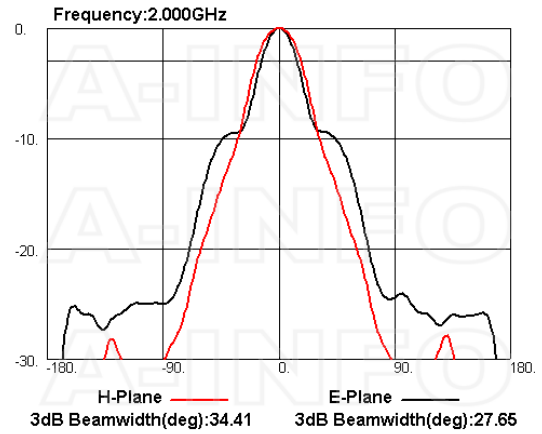
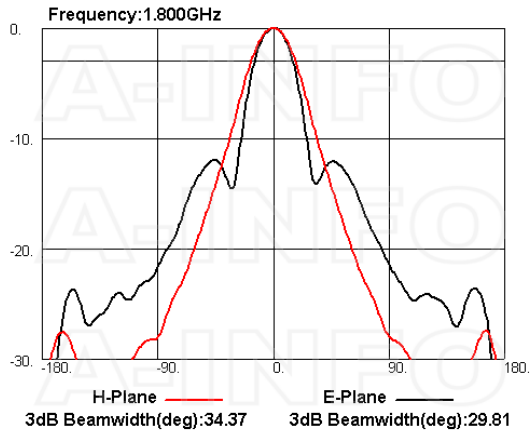


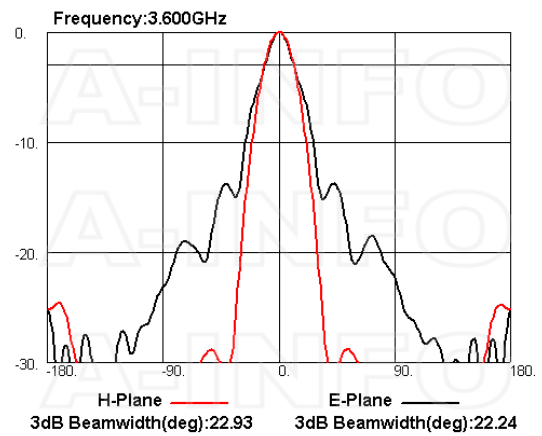
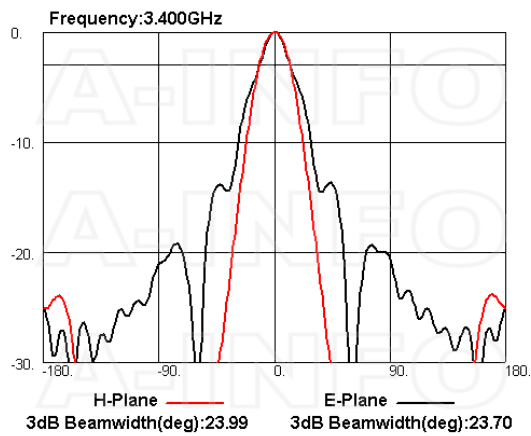
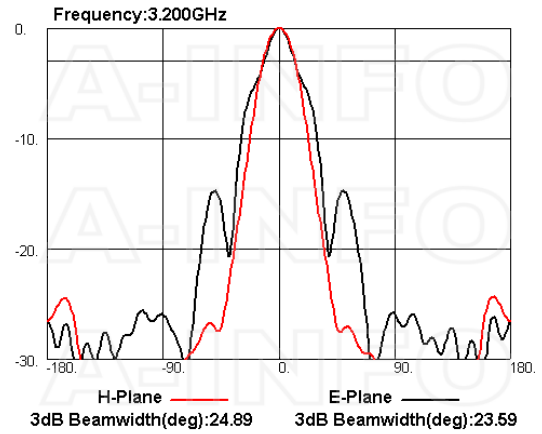
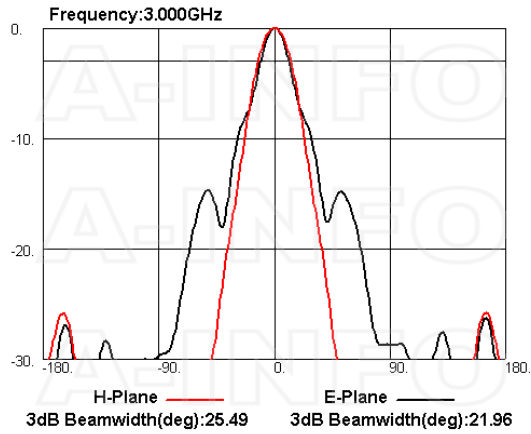
## Beamwidth



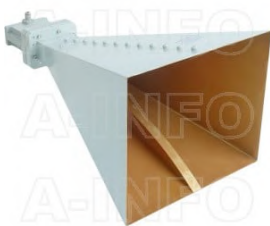
## Pattern







## Similar Products



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

## About this Datasheet

<ul style="list-style-type: none"><li>● <b>Product Information</b></li></ul> Product Link: <a href="https://www.ainfoinc.com/lb-1536-15-a-multi-octave-horn-antenna-1-5-3-6-ghz-15db-gain-fpwr150d24">https://www.ainfoinc.com/lb-1536-15-a-multi-octave-horn-antenna-1-5-3-6-ghz-15db-gain-fpwr150d24</a> Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved	<ul style="list-style-type: none"><li>● <b>Contact Us</b></li></ul> 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>	<ul style="list-style-type: none"><li>● <b>Phone &amp; Fax</b></li></ul> Phone: +1-949-639-9688 +1-949-639-9608  Fax: +1-949-639-9670
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