

### LB-2048-15-A Multi Octave Horn Antenna 2-4.8GHz 15dB Gain Double Ridge Waveguide Interface

Multi Octave Horn Antenna From 2GHz to 4.8GHz With a Nominal 15dB Gain With Double Ridge Waveguide Interface

## Product Information

SKU	LB-2048-15-A
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## Description

Multi octave horn antenna LB-2048-15-A, operating from 2 to 4.8GHz with a nominal 15dB gain and low VSWR 1.5:1 with FPWRD200D24 output. The model LB-2048-15-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

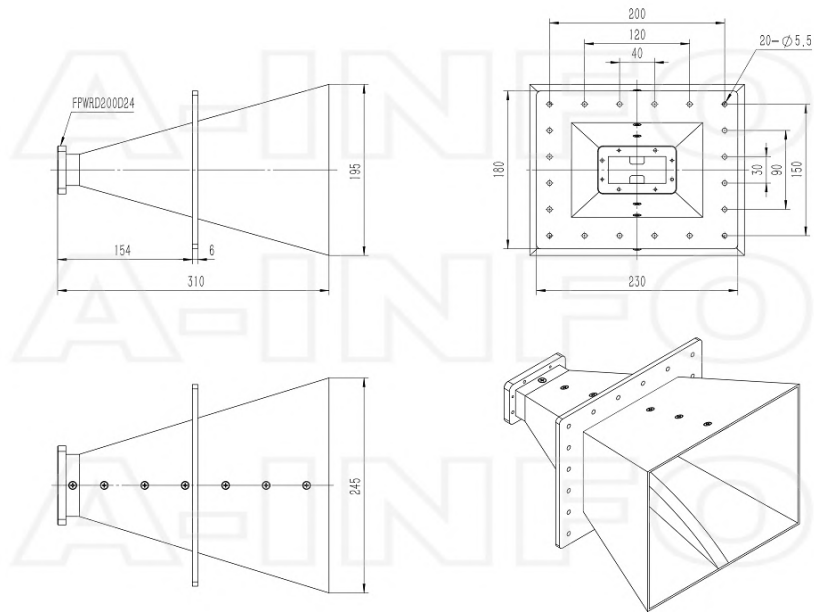
Electrical Specification		Interface	
Frequency, Min (GHz)	2	Output Type	Waveguide
Frequency, Max (GHz)	4.8	Flange Designation, WRD	FPWRD200D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD200	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	17	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	44	Size, W (mm)	245
3dB Beamwidth, H-Plane, Min (Deg.)	19	Size, H (mm)	195
3dB Beamwidth, H-Plane, Max (Deg.)	47	Size, L (mm)	310
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	2
VSWR, Typ	1.5:1		

## 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

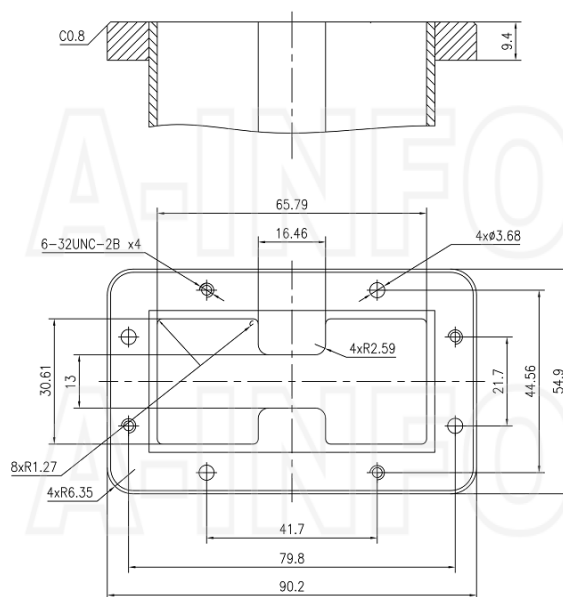
FPWRD200D24 Output (P/N: LB-2048-15-A)



Flange Drawing

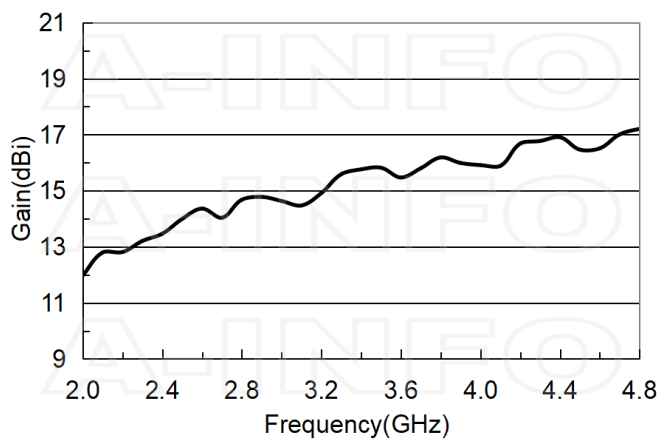
FPWRD200D24

(With four through mounting holes and four screws holes)

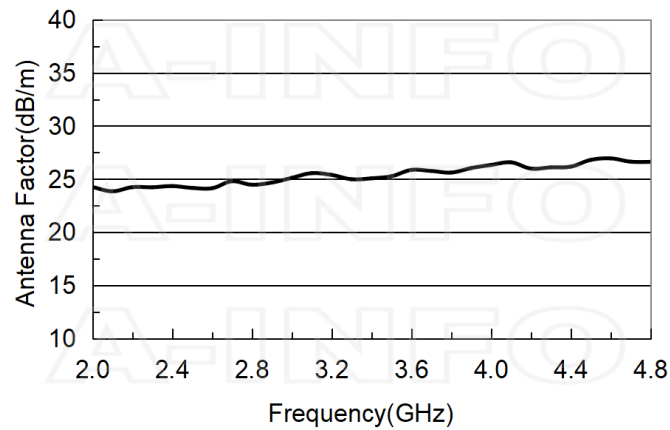


Typical Test Results

Gain



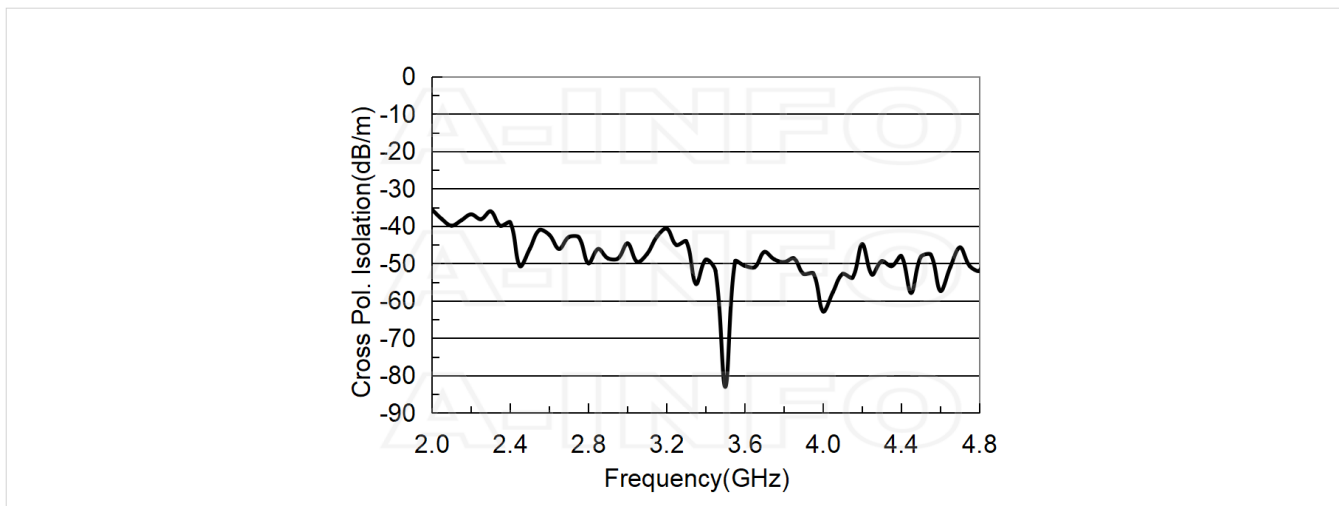
## Antenna Factor



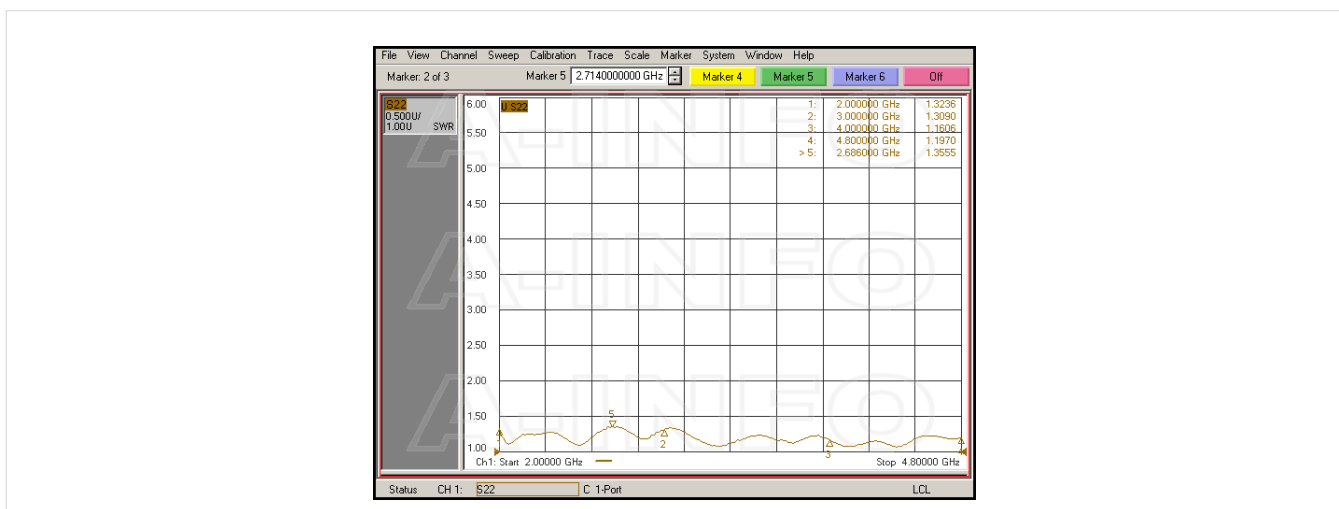
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
2.0	11.97	24.26
2.2	12.81	24.25
2.4	13.47	24.35
2.6	14.36	24.15
2.8	14.68	24.48
3.0	14.63	25.12
3.2	14.92	25.40
3.4	15.76	25.08
3.6	15.47	25.86
3.8	16.19	25.62
4.0	15.91	26.34
4.2	16.68	25.99
4.4	16.91	26.17
4.6	16.51	26.95
4.8	17.21	26.63

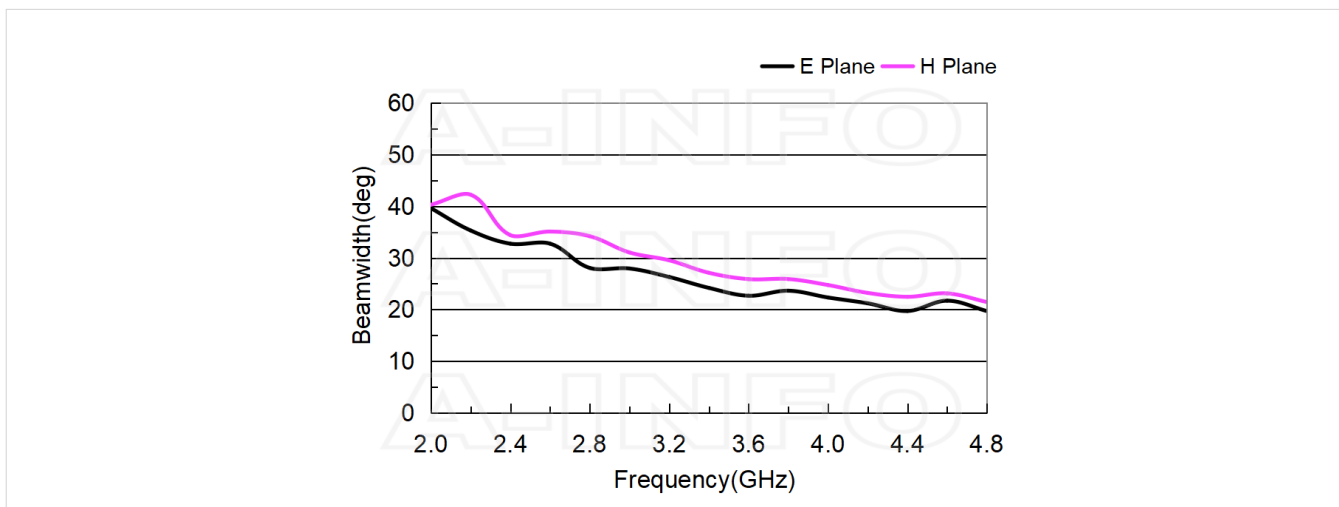
## Cross Polarization Isolation



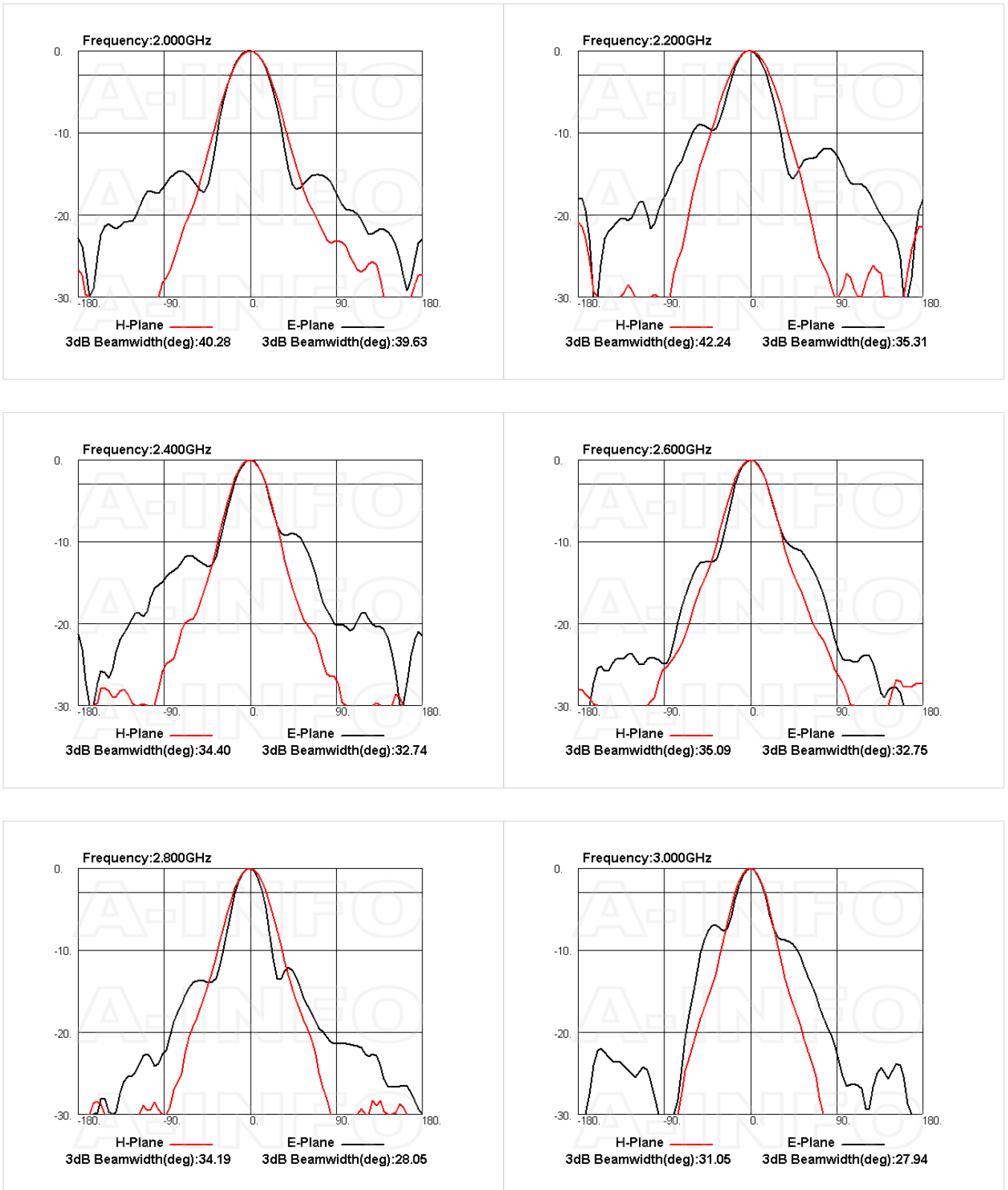
## VSWR

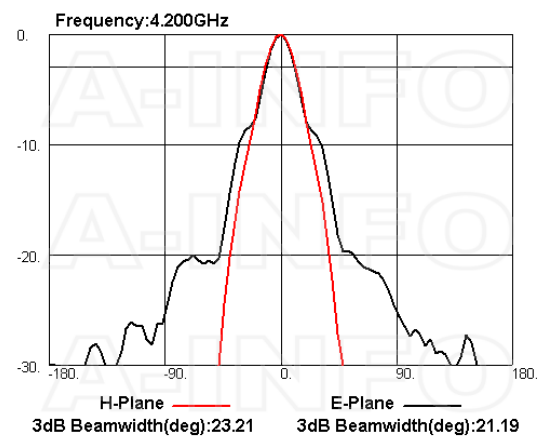
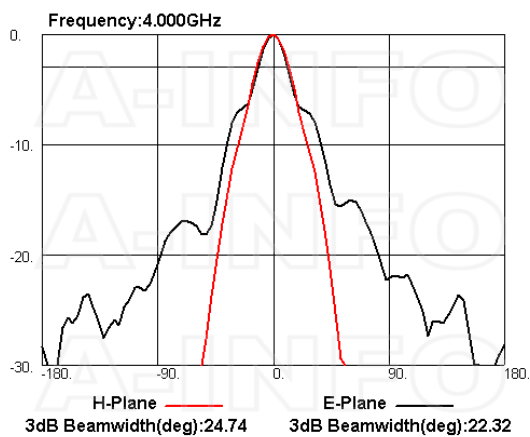
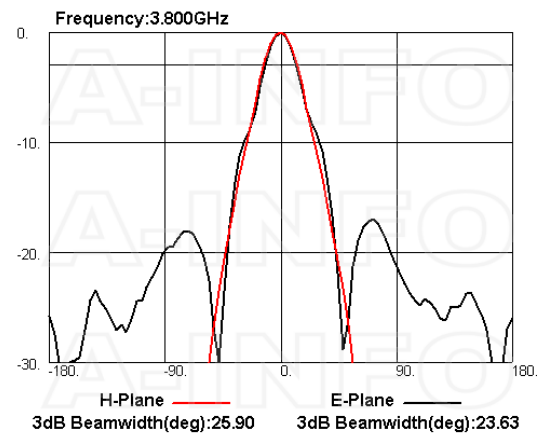
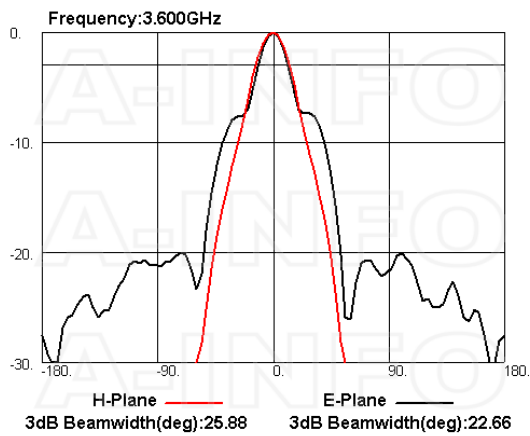
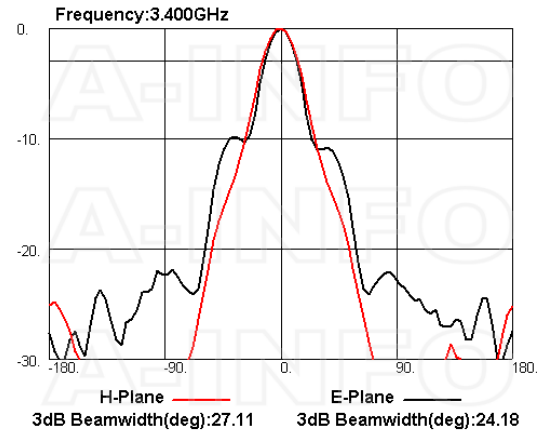
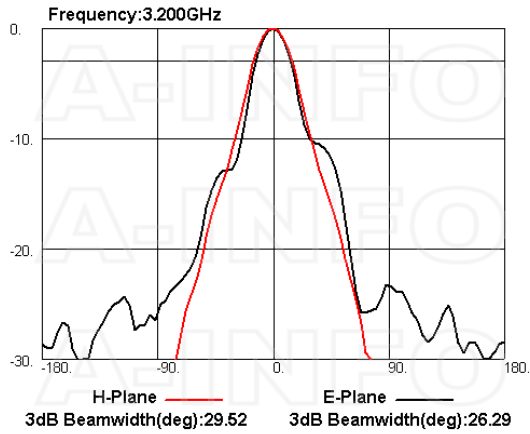


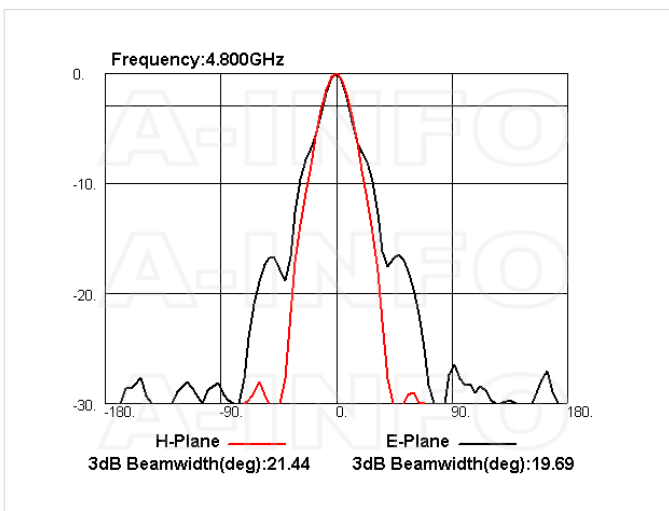
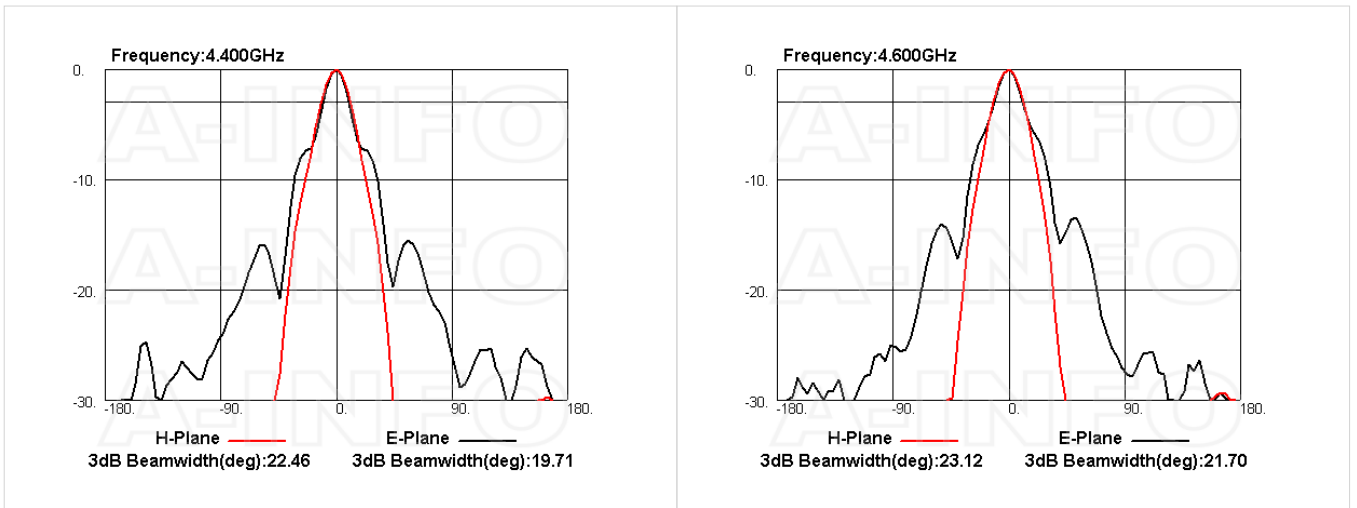
## Beamwidth



## Pattern







## Related Products



200DRWCAN Right Angle Double Ridge Waveguide to Coaxial Adapter 2-4.8GHz WRD200 to N Type Female



200DRWCAS Right Angle Double Ridge Waveguide to Coaxial Adapter 2-4.8GHz WRD200 to SMA Female



200DRWECAN Endlaunch Double Ridge Waveguide to Coaxial Adapter 2-4.8GHz WRD200 to N Type Female



200DRWECAS Endlaunch Double Ridge Waveguide to Coaxial Adapter 2-4.8GHz WRD200 to SMA Female



200DRWHCAN Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 2-4.8GHz WRD200 to N Type Female



LB-2048-15-C-L L type mounting bracket



Carrying Case\_LB-2048-15-C Al Alloy Carrying Case

## Similar Products



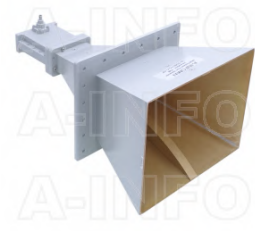
LB-2048-15-ASPO Multi Octave Horn Antenna 2-4.8GHz 15dB Gain Double Ridge Waveguide Interface



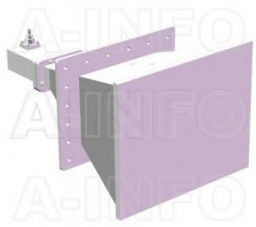
LB-2048-15-C-NF Multi Octave Horn Antenna 2-4.8GHz 15dB Gain N Type Female



LB-2048-15-C-NFSPO Multi Octave Horn Antenna 2-4.8GHz 15dB Gain N Type Female



LB-2048-15-C-SF Multi Octave Horn Antenna 2-4.8GHz 15dB Gain SMA Female



LB-2048-15-C-SFSPO Multi Octave Horn Antenna 2-4.8GHz 15dB 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-2048-15-a-multi-octave-horn-antenna-2-4-8-ghz-15db-gain-fpwr200d24">https://www.ainfoinc.com/lb-2048-15-a-multi-octave-horn-antenna-2-4-8-ghz-15db-gain-fpwr200d24</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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