



### LB-180400-15-A Multi Octave Horn Antenna 18-40GHz 15dB Gain Double Ridge Waveguide Interface

Multi Octave Horn Antenna From 18GHz to 40GHz With a Nominal 15dB Gain With Double Ridge Waveguide Interface

## Product Information

SKU	LB-180400-15-A
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## Description

Multi octave horn antenna LB-180400-15-A, operating from 18 to 40GHz with a nominal 15dB gain and low VSWR 1.5:1 with FPWRD180C24 output. The model LB-180400-15-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of high thermal and electrical conductivity durable copper, 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

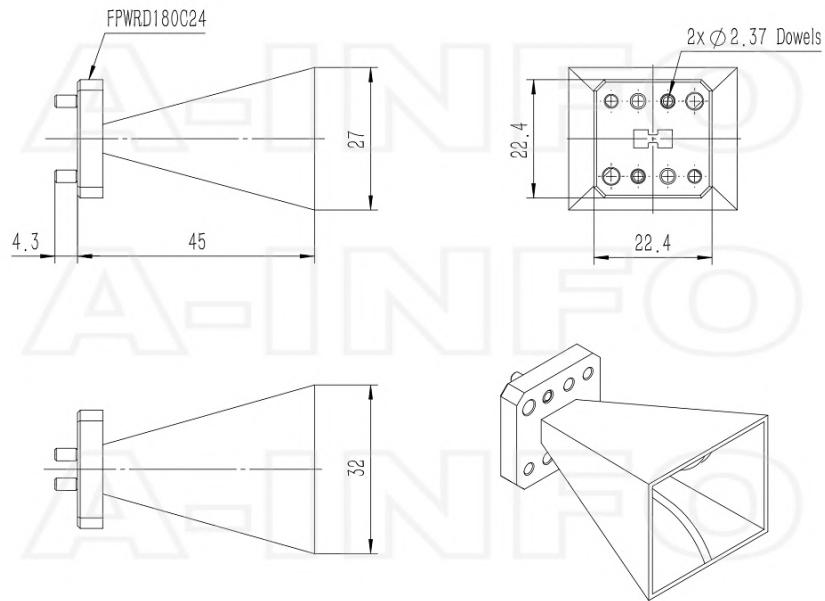
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Waveguide
Frequency, Max (GHz)	40	Flange Designation, WRD	FPWRD180C24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD180	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Min (Deg.)	21	Finish	Gold Plated, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	42	Size, W (mm)	32
3dB Beamwidth, H-Plane, Min (Deg.)	17	Size, H (mm)	27
3dB Beamwidth, H-Plane, Max (Deg.)	45	Size, L (mm)	45
Cross Pol. Isolation, Typ (dB)	35	Weight, (kg)	0.04
VSWR, Typ	1.5:1		

## Additional Information

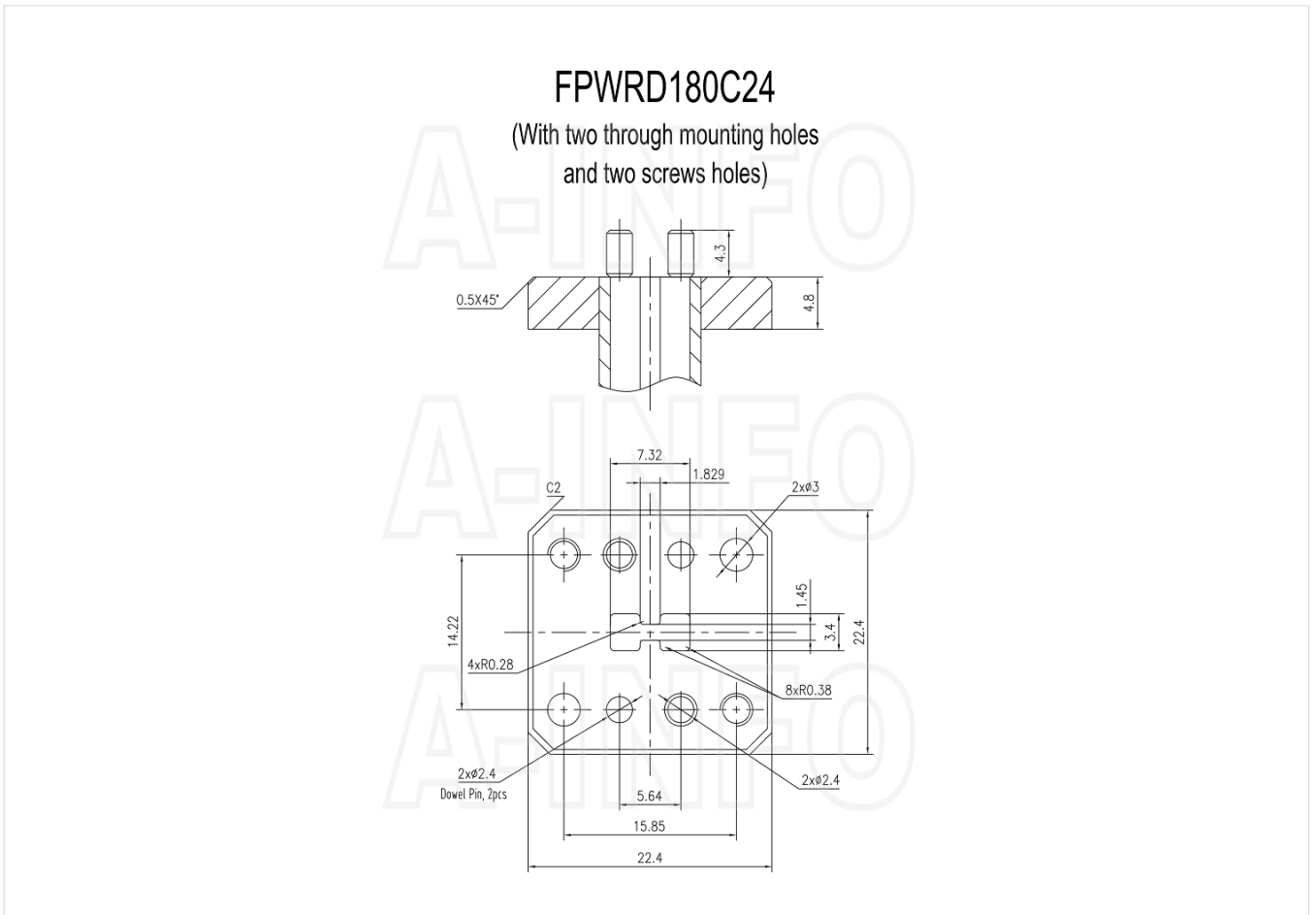
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

FPWRD180C24 Output (P/N: LB-180400-15-A)

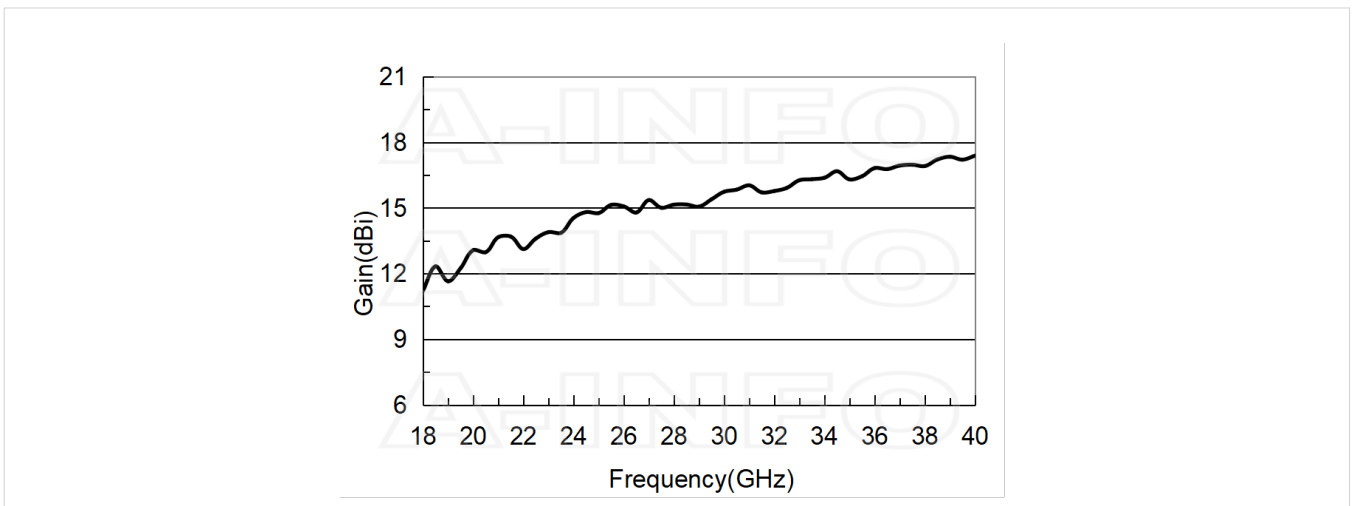


Flange Drawing

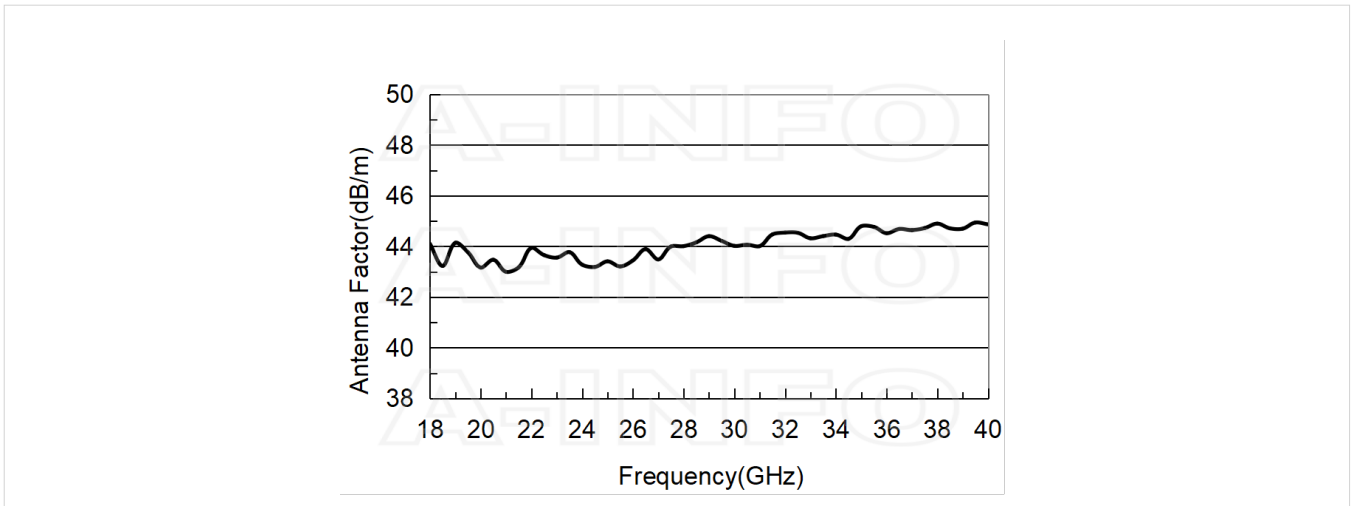


Typical Test Results

Gain



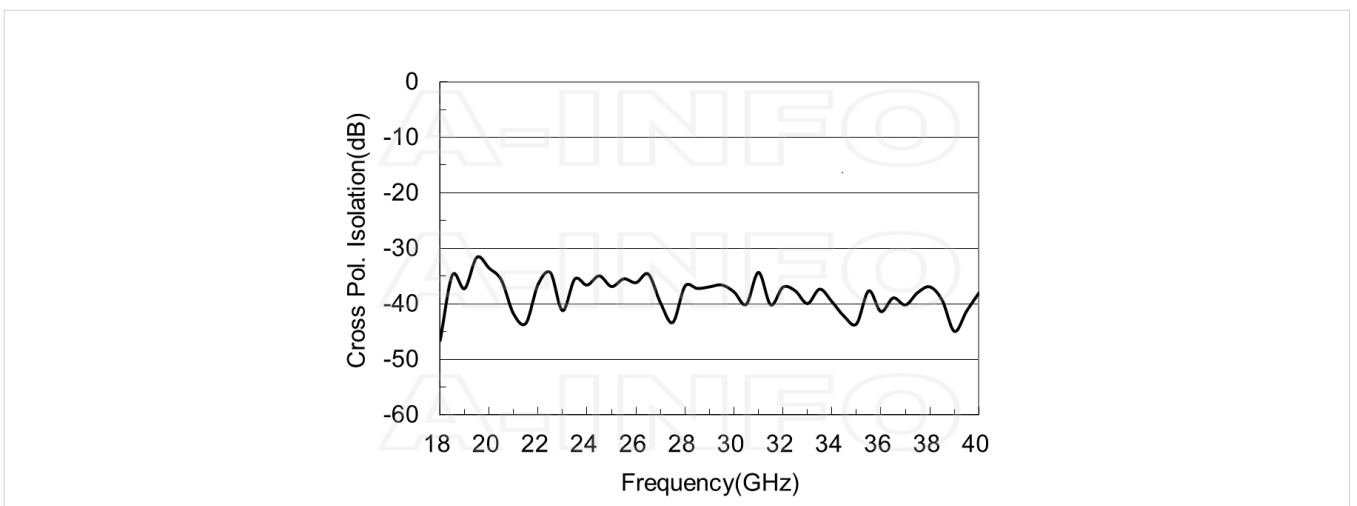
## Antenna Factor



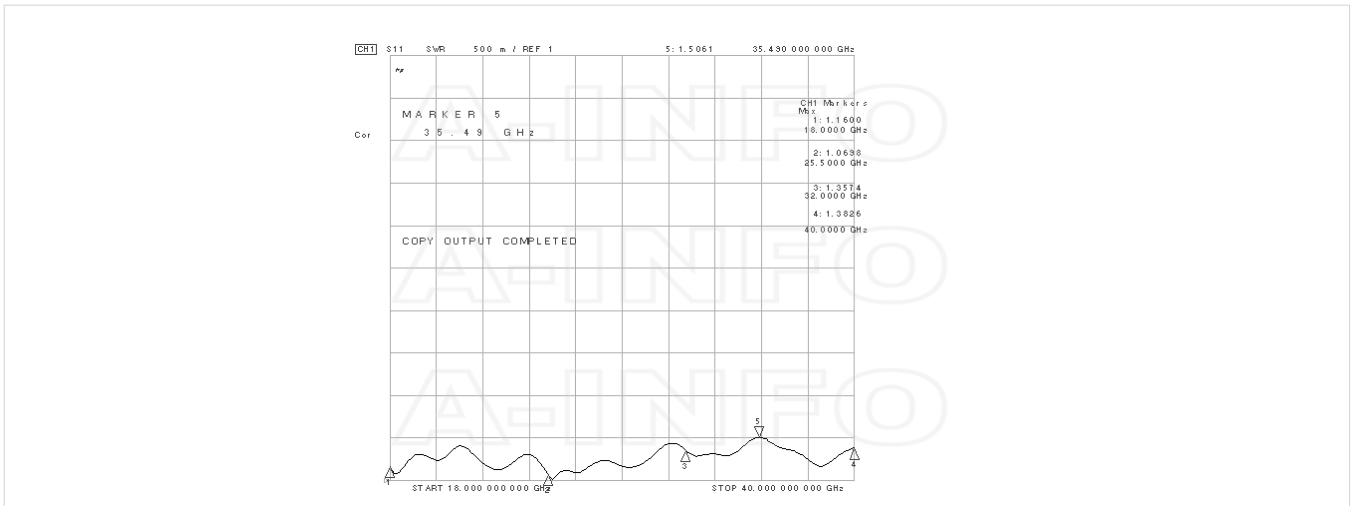
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	11.22	44.10
20.0	13.07	43.16
22.0	13.12	43.94
24.0	14.54	43.28
26.0	15.07	43.44
28.0	15.14	44.01
30.0	15.73	44.02
32.0	15.77	44.55
34.0	16.38	44.46
36.0	16.82	44.52
38.0	16.91	44.90
40.0	17.38	44.87

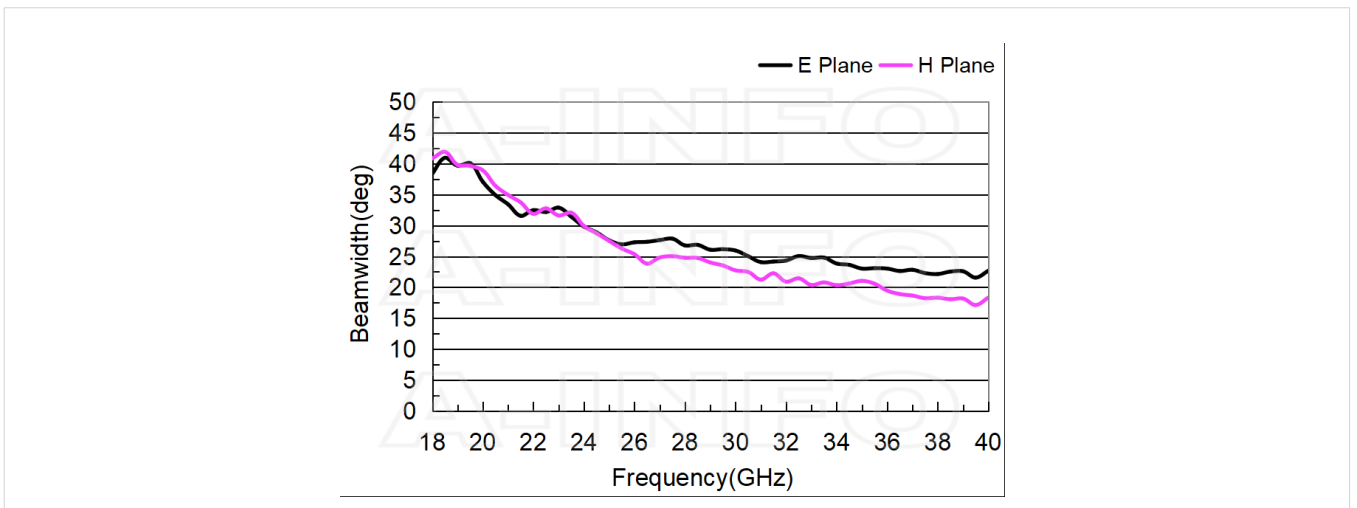
## Cross Polarization Isolation



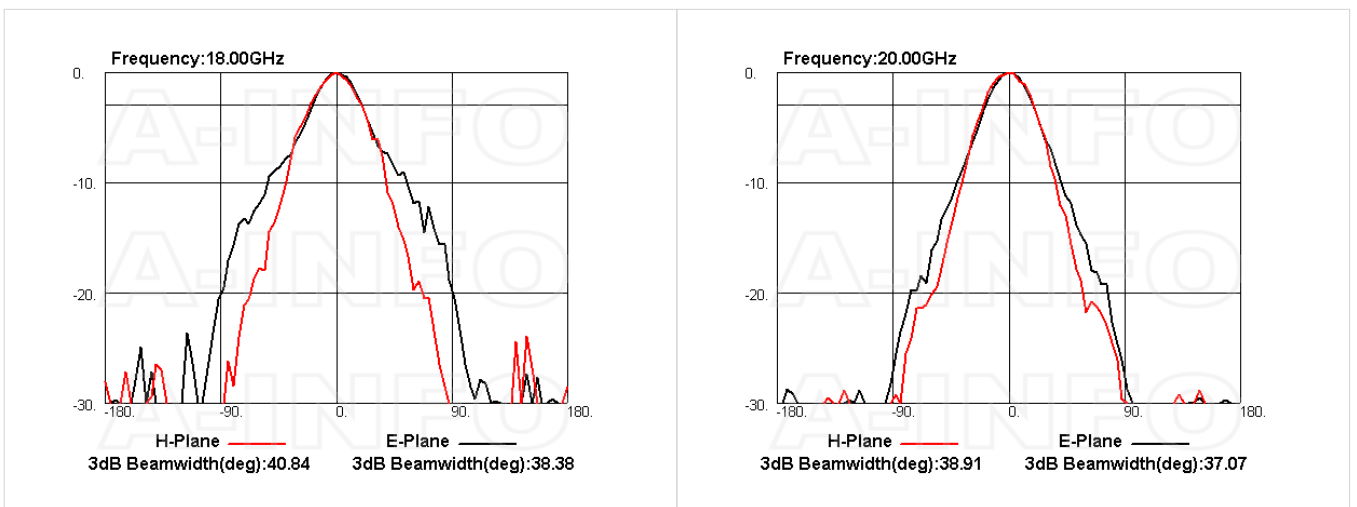
## VSWR

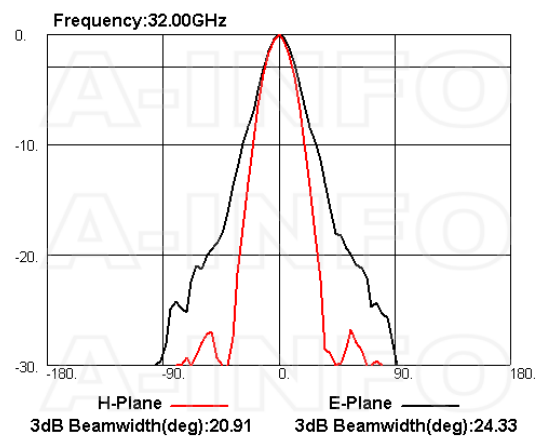
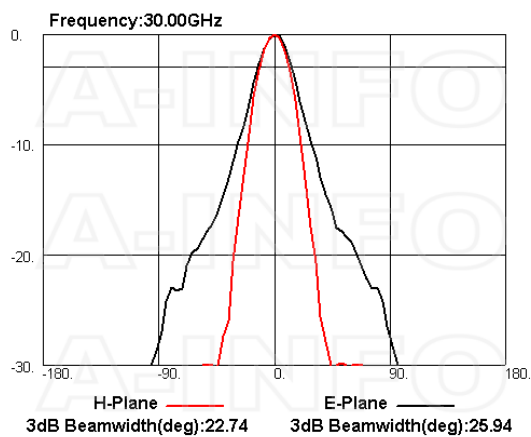
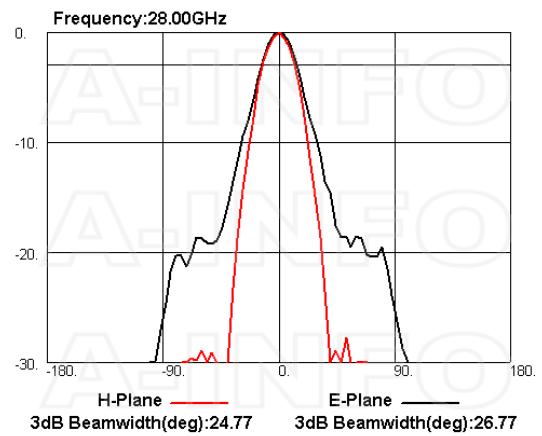
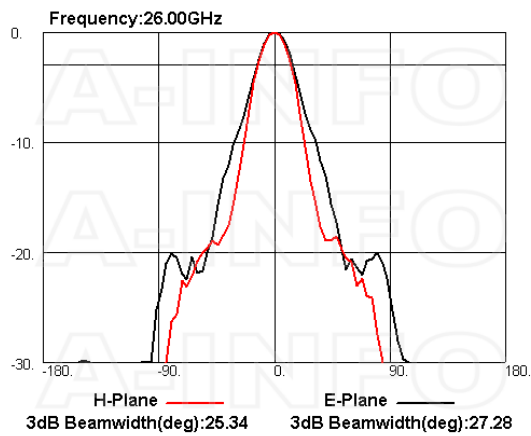
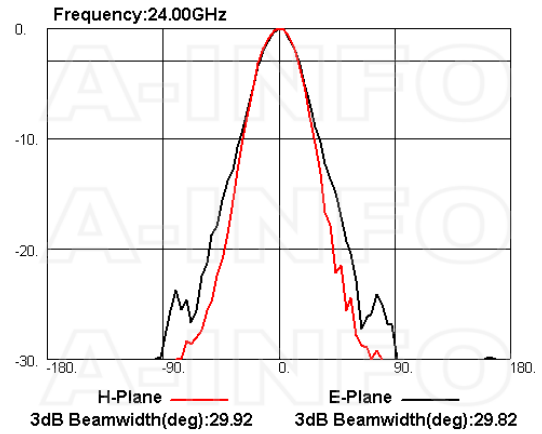
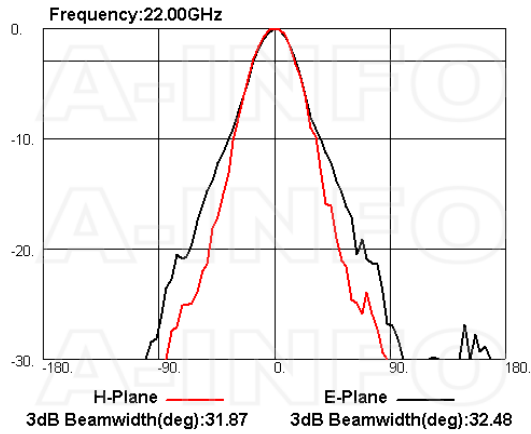


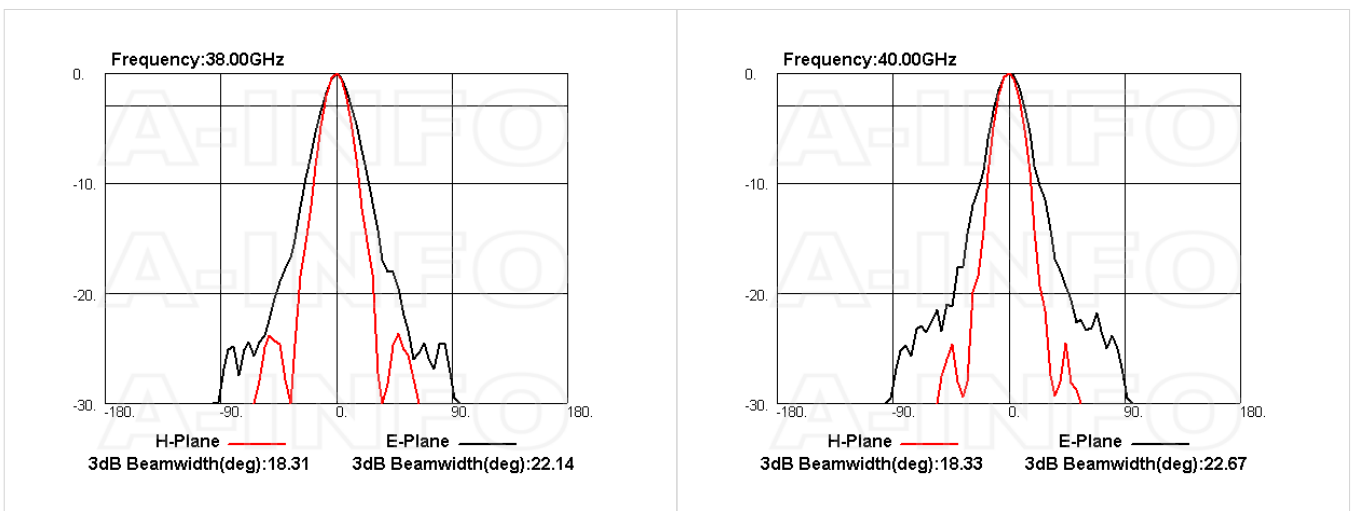
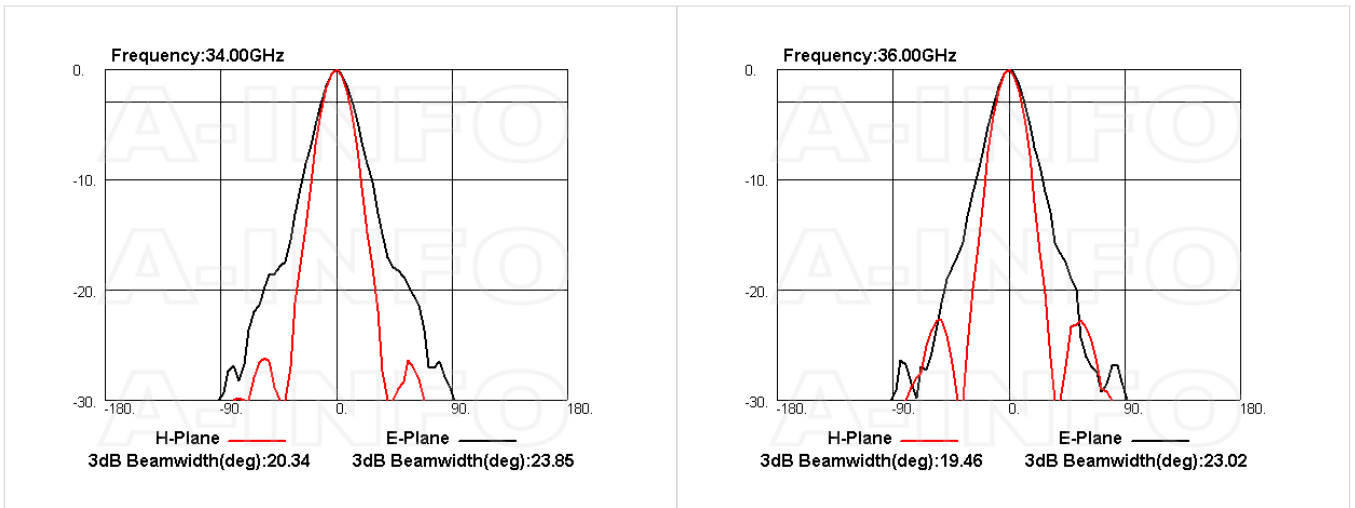
## Beamwidth



## Pattern







## Related Products



180DRWCAK\_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 18-40GHz WRD180 to 2.92mm Female



180DRWCA2.4\_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 18-40GHz WRD180 to 2.4mm Female



180DRWECAK\_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 18-40GHz WRD180 to 2.92mm Female



180DRWECA2.4\_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 18-40GHz WRD180 to 2.4mm Female



LB-180400-10-C-MB Round Type Mounting Bracket



LB-180400-10-C-MBL L Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case\_LB-180400-15 Al Alloy Carrying Case

## Similar Products



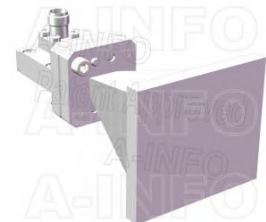
LB-180400-15-ASPO Multi Octave Horn Antenna 18-40GHz 15dB Gain Double Ridge Waveguide Interface



LB-180400-15-C-KF Multi Octave Horn Antenna 18-40GHz 15dB Gain 2.92mm Female



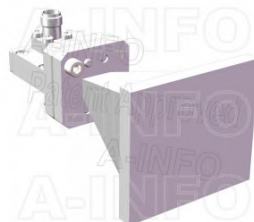
LB-180400-15-C-KM Multi Octave Horn Antenna 18-40GHz 15dB Gain 2.92mm Male



LB-180400-15-C-KFSPO Multi Octave Horn Antenna 18-40GHz 15dB Gain 2.92mm Female



LB-180400-15-C-2.4F Multi Octave Horn Antenna 18-40GHz 15dB Gain 2.4mm Female



LB-180400-15-C-2.4FSPO Multi Octave Horn Antenna 18-40GHz 15dB Gain 2.4mm Female

### 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-180400-15-a-multi-octave-horn-antenna-18-40-ghz-15db-gain-fpwr180c24">https://www.ainfoinc.com/lb-180400-15-a-multi-octave-horn-antenna-18-40-ghz-15db-gain-fpwr180c24</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>
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