

### LB-65180-10-A Multi Octave Horn Antenna 6.5-18GHz 10dB Gain Double Ridge Waveguide Interface



Multi Octave Horn Antenna From 6.5GHz to 18GHz With a Nominal 10dB Gain With Double Ridge Waveguide Interface

### Product Information

SKU	LB-65180-10-A
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### Description

Multi octave horn antenna LB-65180-10-A, operating from 6.5 to 18GHz with a nominal 10dB gain and low VSWR 1.5:1 with FPWRD650D28 output. The model LB-65180-10-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

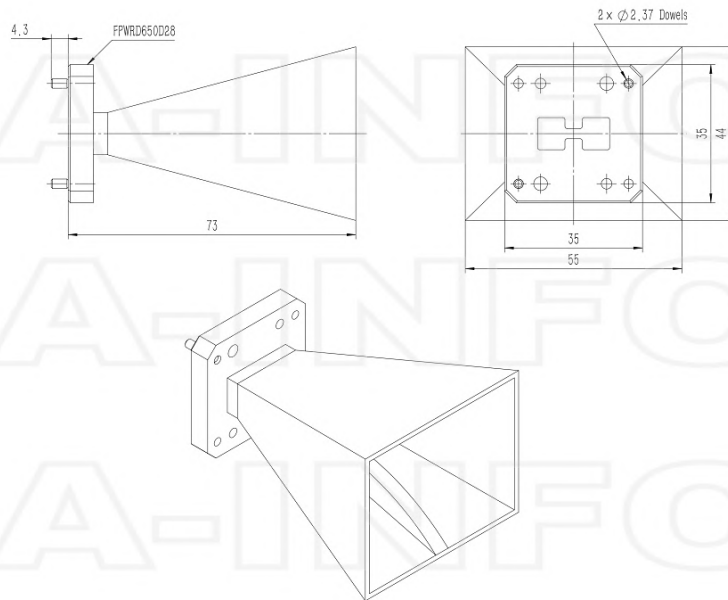
Electrical Specification		Interface	
Frequency, Min (GHz)	6.5	Output Type	Waveguide
Frequency, Max (GHz)	18	Flange Designation, WRD	FPWRD650D28
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD650	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	21	Finish	Nickel Plated, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	67	Size, W (mm)	55
3dB Beamwidth, H-Plane, Min (Deg.)	22	Size, H (mm)	44
3dB Beamwidth, H-Plane, Max (Deg.)	64	Size, L (mm)	73
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.06
VSWR, Typ	1.5:1		

## Additional Information

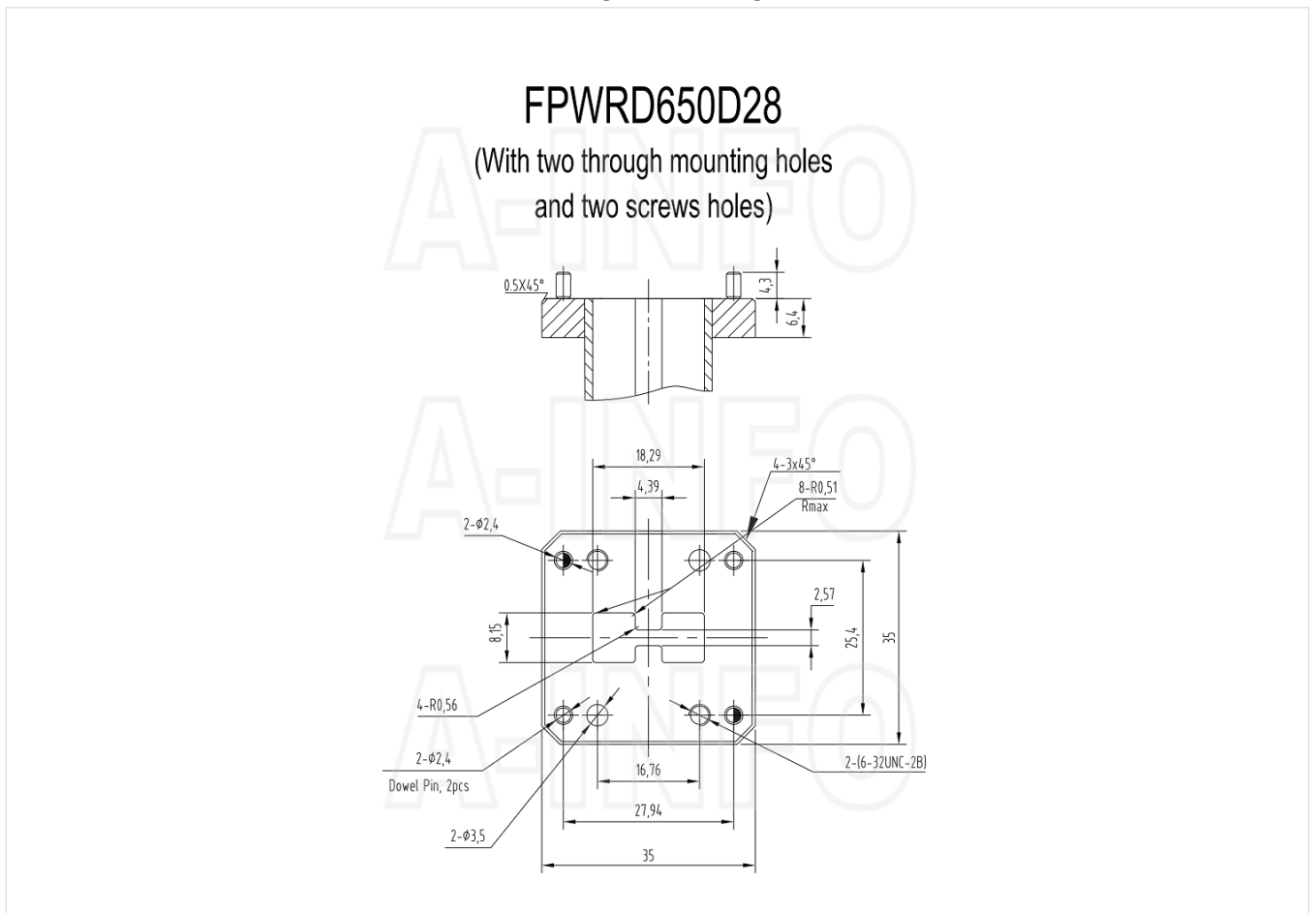
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

FPWRD650D28 Output (P/N: LB-65180-10-A)

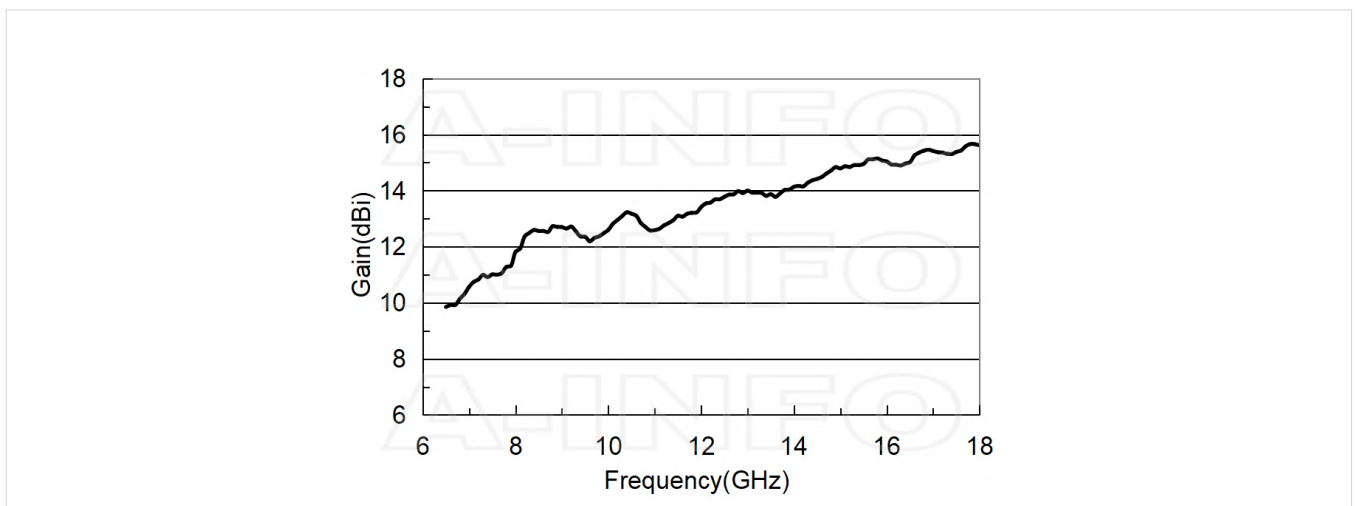


Flange Drawing

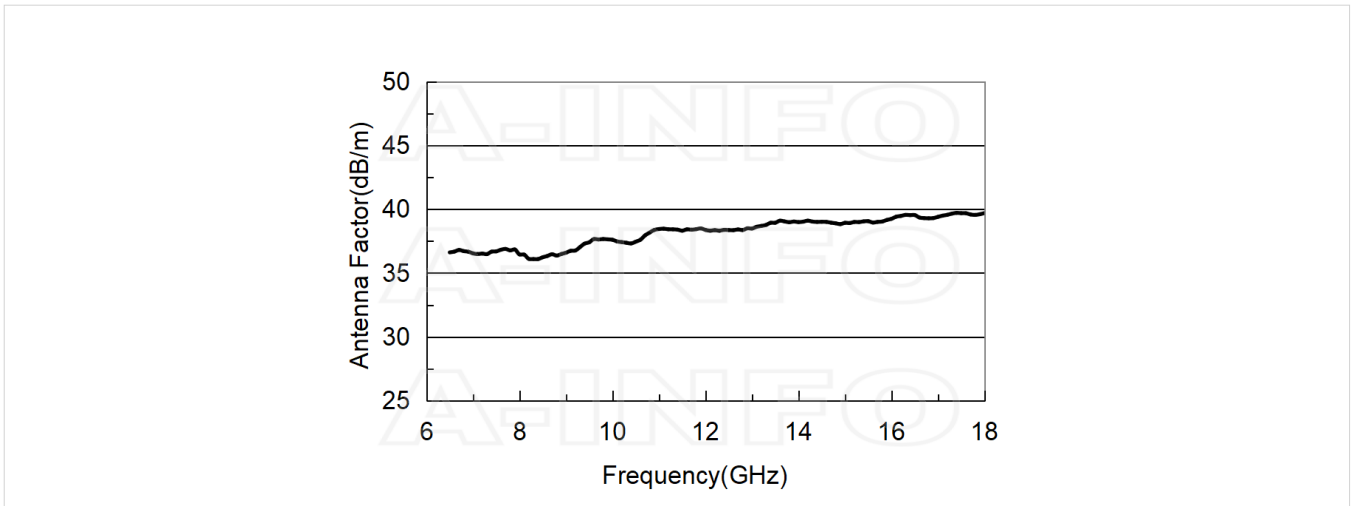


Typical Test Results

Gain



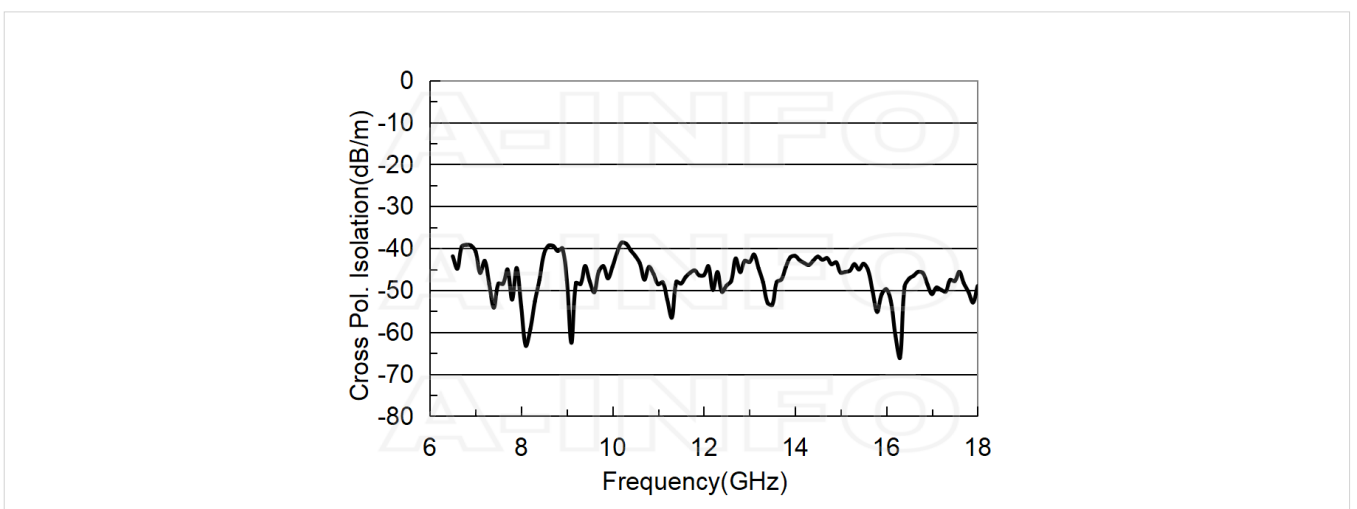
## Antenna Factor



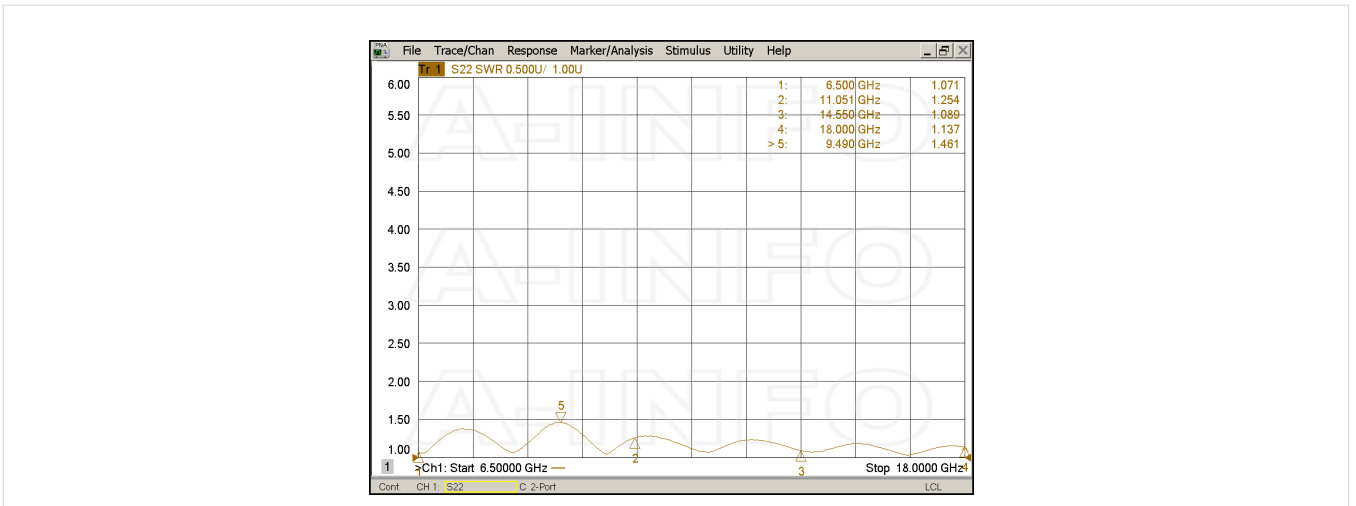
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi )	Antenna Factor(dB/m)
6.5	9.85	36.62
7.0	10.57	36.54
8.0	11.81	36.46
9.0	12.70	36.59
10.0	12.60	37.61
11.0	12.59	38.45
12.0	13.41	38.38
13.0	14.00	38.49
14.0	14.14	38.99
15.0	14.80	38.94
16.0	15.04	39.25
17.0	15.41	39.41
18.0	15.62	39.70

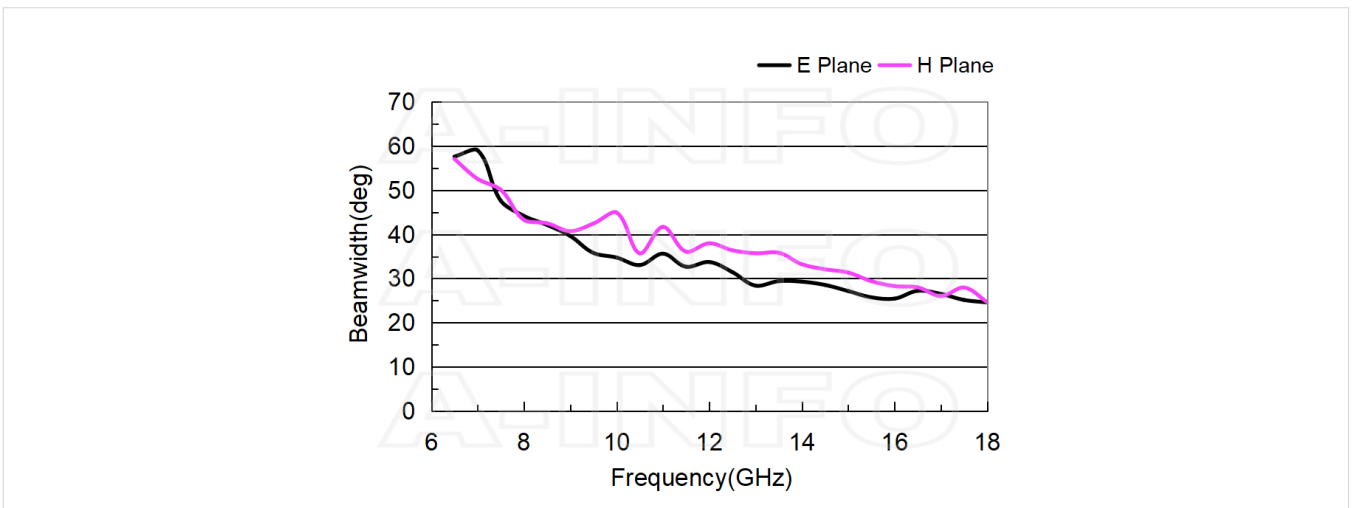
## Cross Polarization Isolation



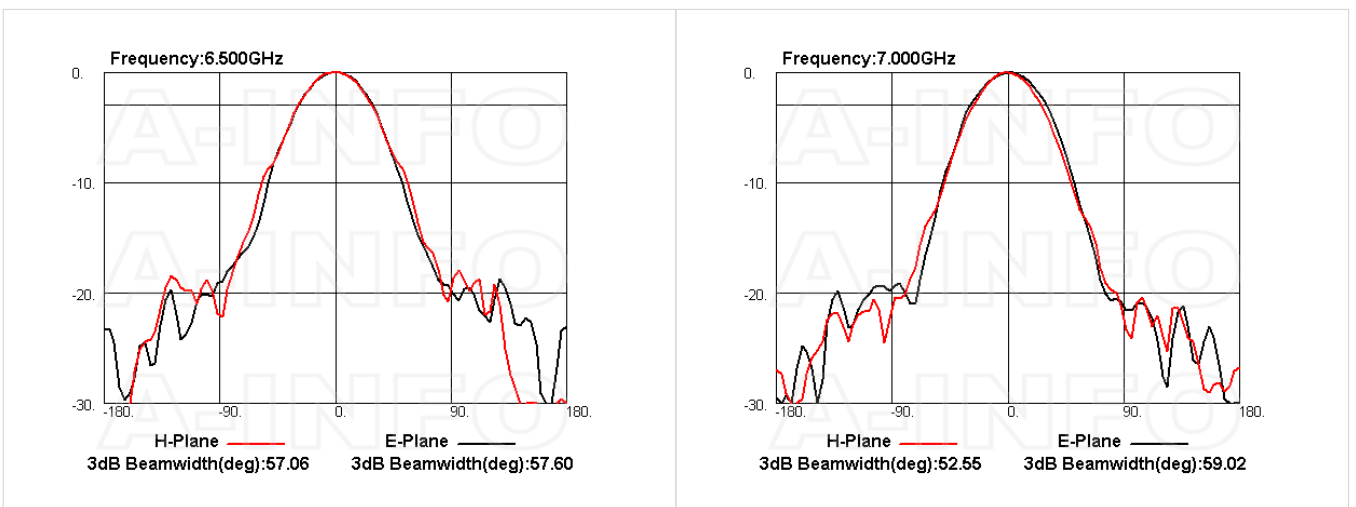
## VSWR

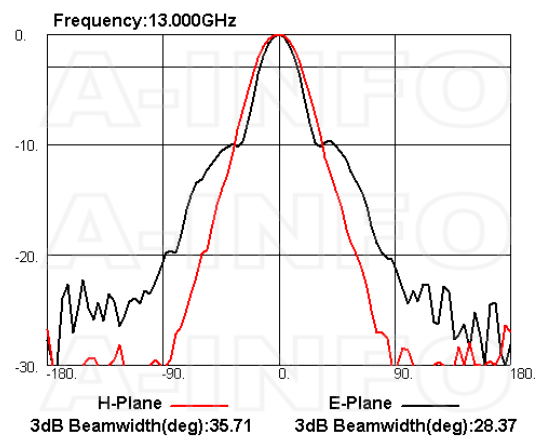
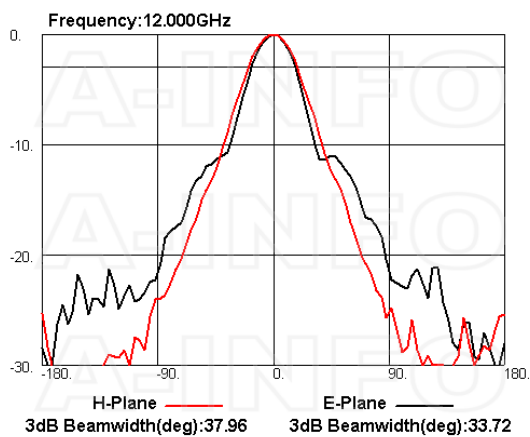
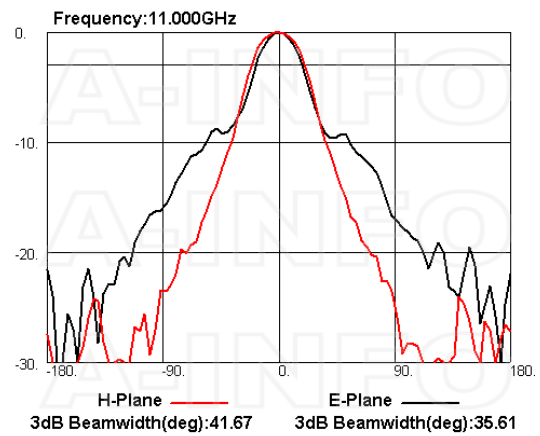
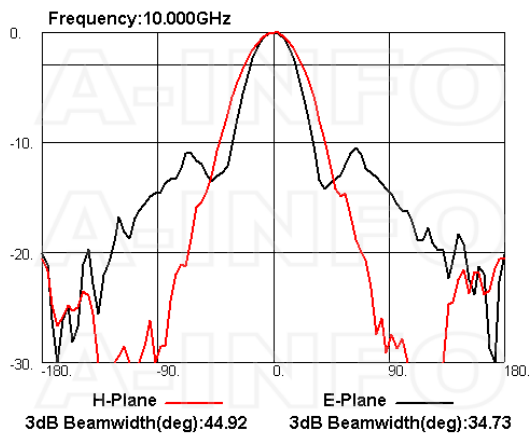
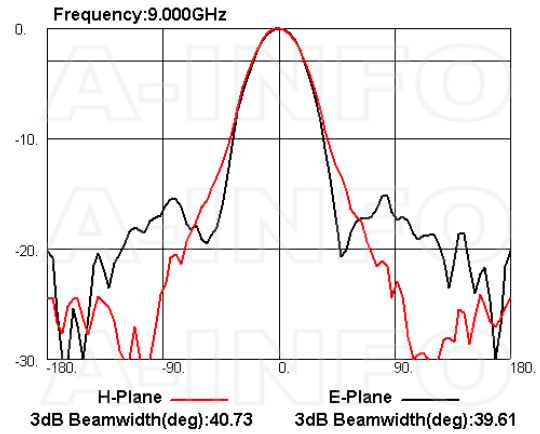
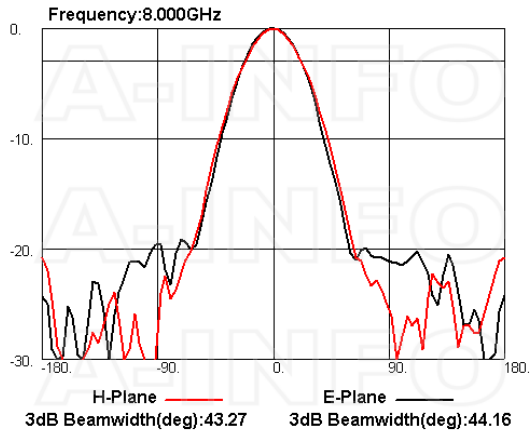


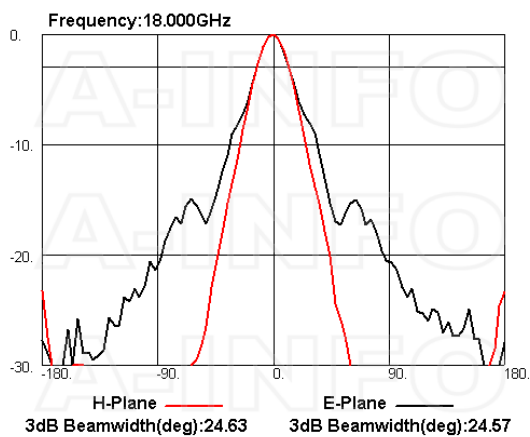
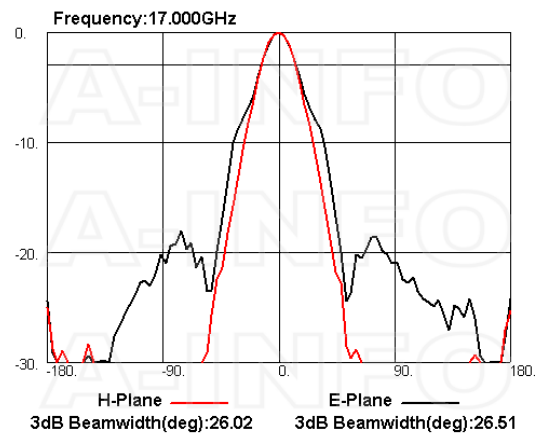
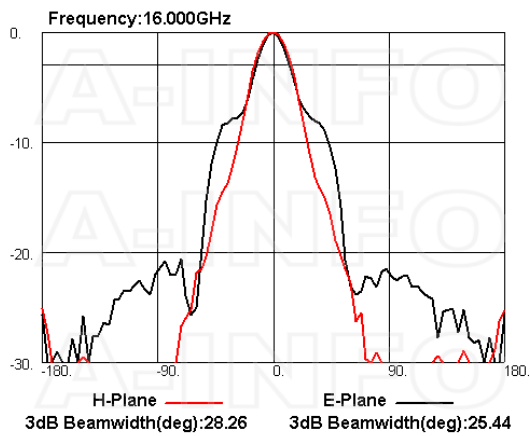
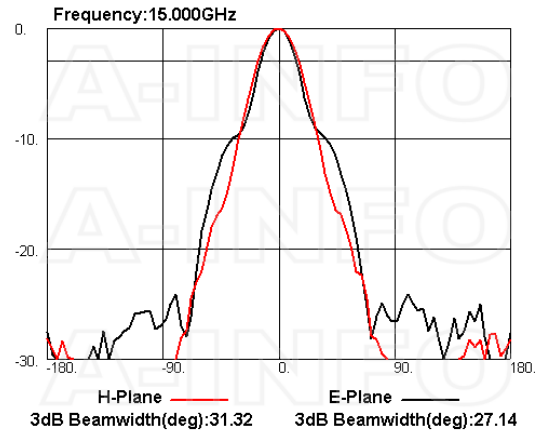
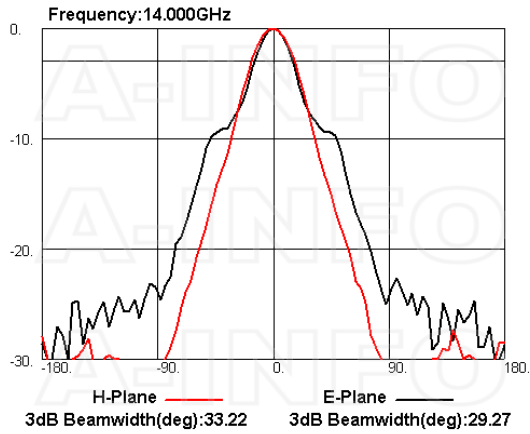
## Beamwidth



## Pattern







## Related Products



650DRWCAN\_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to N Type Female



650DRWCAS\_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to SMA Female



650DRWECAN\_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to N Type Female



650DRWECANM\_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to N Type Male



650DRWECAS\_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to SMA Female



650DRWHCAN\_Cu Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 6.5-18GHz WRD650 to N Type Female



LB-65180-10-C-MB Round Type Mounting Bracket



LB-65180-10-C-MBL L type mounting bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case\_LB-65180-10 Al Alloy Carrying Case

## Similar Products



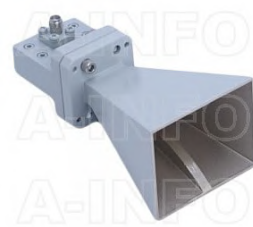
LB-65180-10-ASPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain Double Ridge Waveguide Interface



LB-65180-10-C-NF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain N Type Female



LB-65180-10-C-NFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain N Type Female



LB-65180-10-C-SF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain SMA Female



LB-65180-10-C-SFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain SMA Female



LB-65180-10-C-HNF Multi Octave Horn Antenna 6.5-18GHz 10dB Gain High Power N Type Female.



LB-65180-10-C-HNFSPO Multi Octave Horn Antenna 6.5-18GHz 10dB Gain High Power N Type Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b> Product Link: <a href="https://www.ainfoinc.com/lb-65180-10-a-multi-octave-horn-antenna-6-5-18-ghz-10db-gain-fpwr650d28">https://www.ainfoinc.com/lb-65180-10-a-multi-octave-horn-antenna-6-5-18-ghz-10db-gain-fpwr650d28</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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