

LB-180400-15-A_AI 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_AI
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Description

Multi octave horn antenna LB-180400-15-A_AI, 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_AI 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

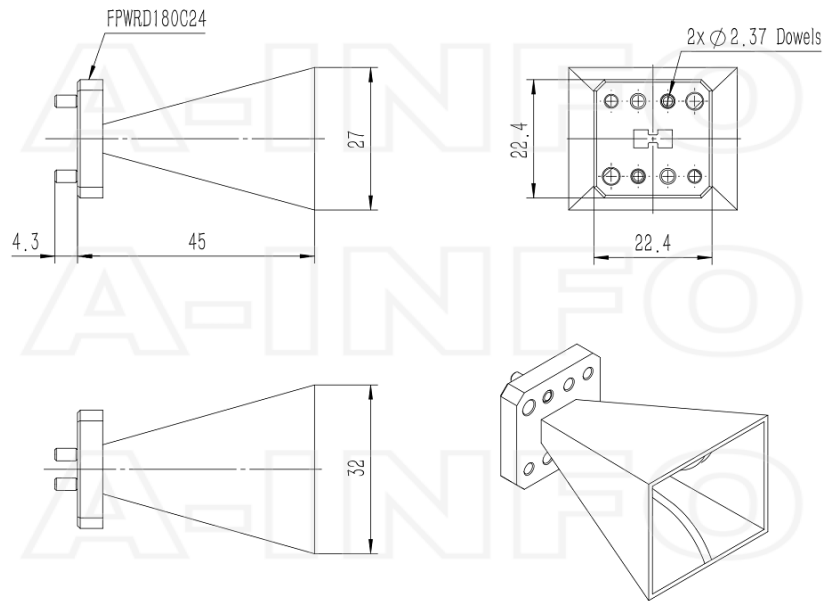
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Waveguide
Frequency, Max (GHz)	40	Flange Designation, WRD	FPWRD180C24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD180	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	20	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	45	Size, W (mm)	32
3dB Beamwidth, H-Plane, Min (Deg.)	16	Size, H (mm)	27
3dB Beamwidth, H-Plane, Max (Deg.)	51	Size, L (mm)	45
Cross Pol. Isolation, Typ (dB)	35	Weight, (kg)	0.02
VSWR, Typ	1.5:1		

Additional Information

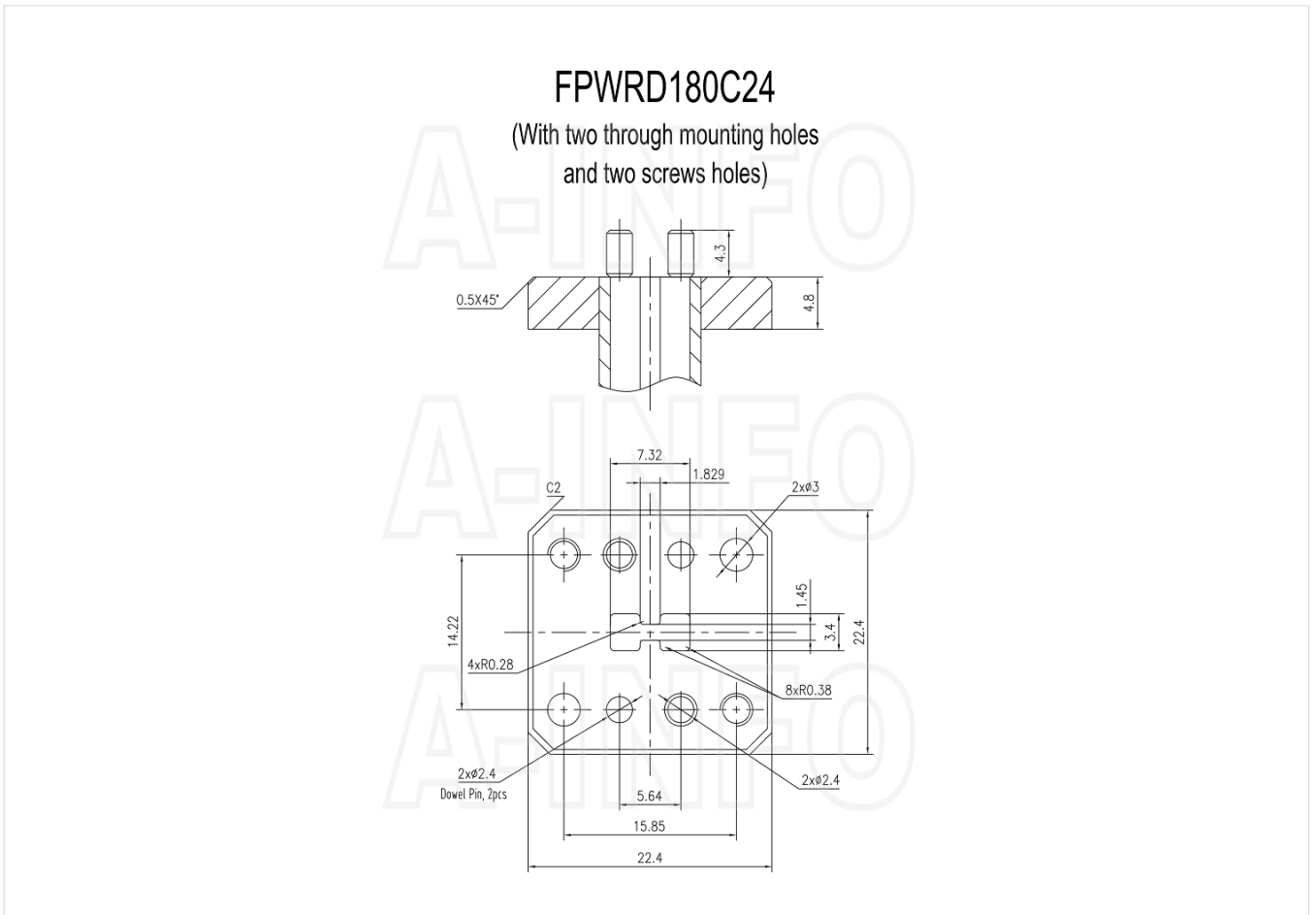
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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Outline Drawing

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

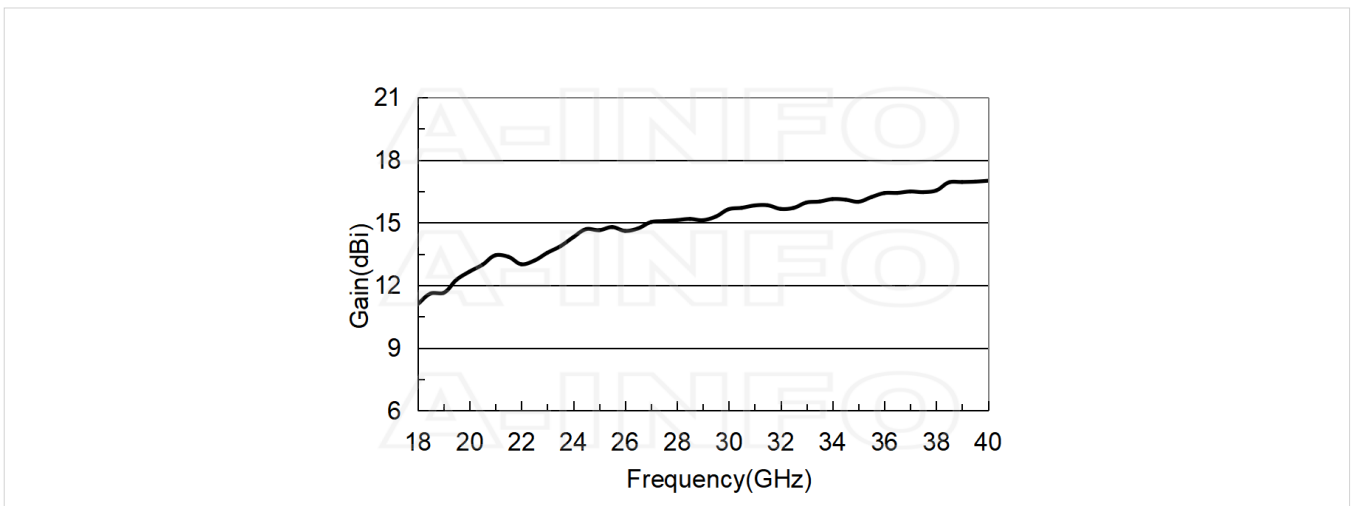


Flange Drawing

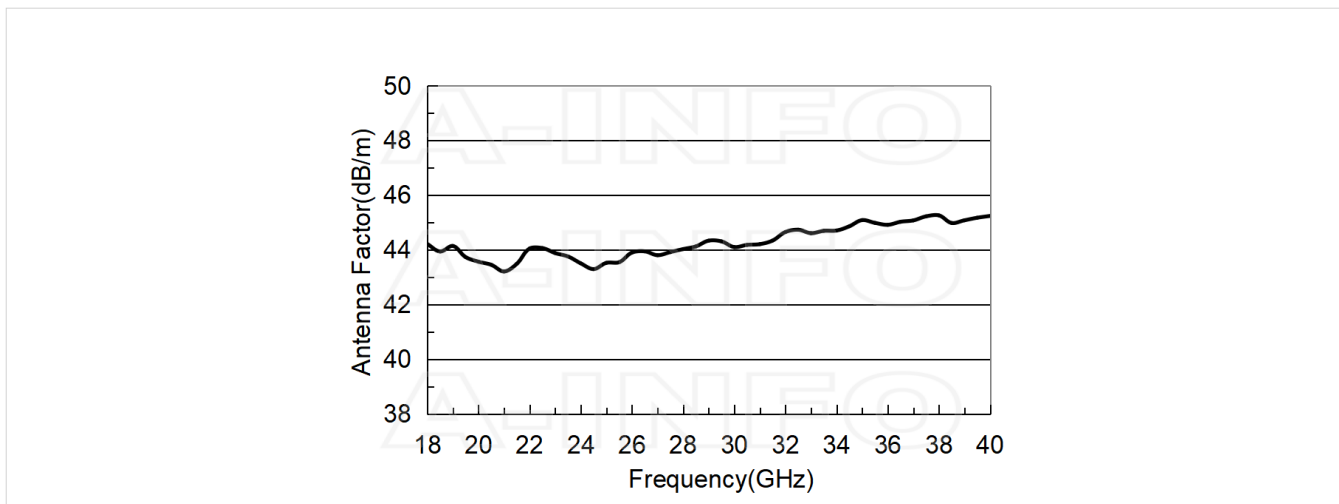


Typical Test Results

Gain



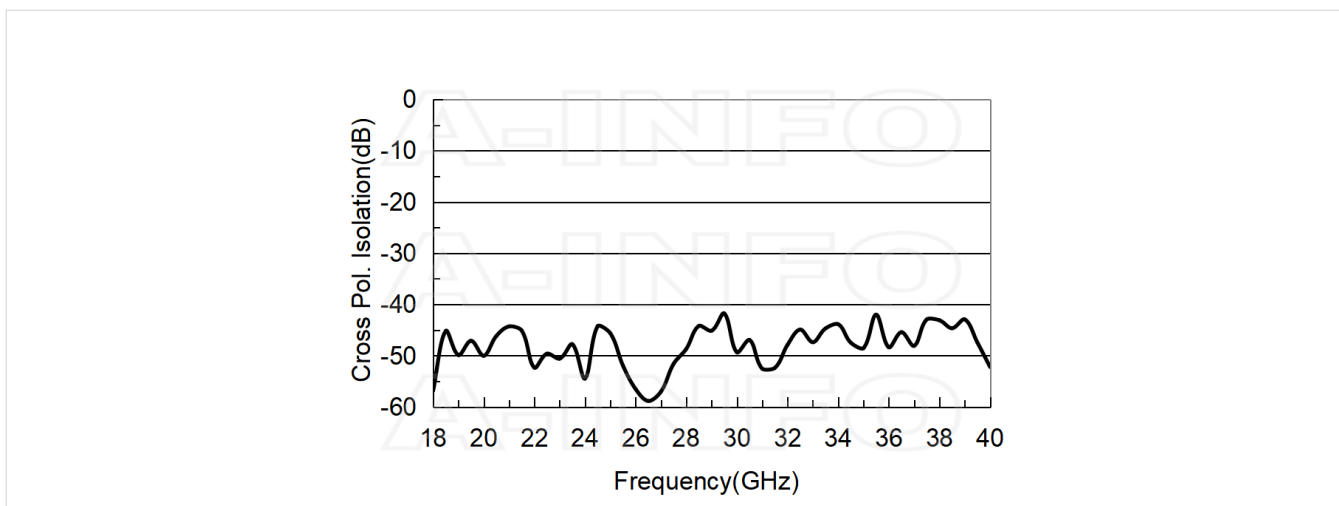
Antenna Factor



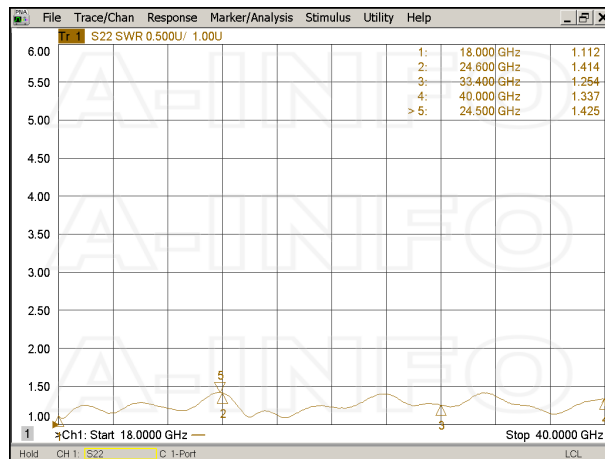
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	11.10	44.22
20.0	12.66	43.57
22.0	13.01	44.05
24.0	14.31	43.51
26.0	14.61	43.90
28.0	15.12	44.03
30.0	15.65	44.10
32.0	15.66	44.65
34.0	16.13	44.71
36.0	16.42	44.92
38.0	16.54	45.26
40.0	17.01	45.24

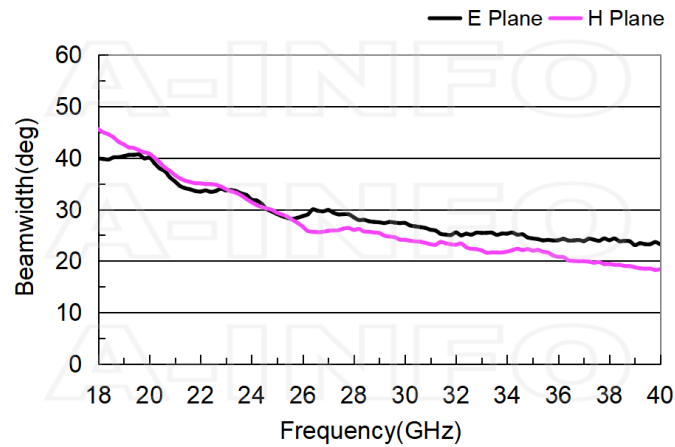
Cross Polarization Isolation



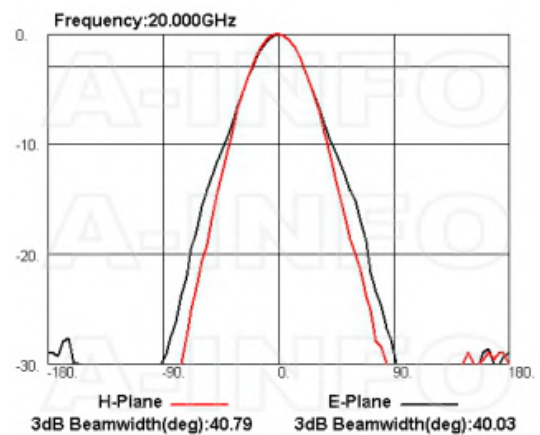
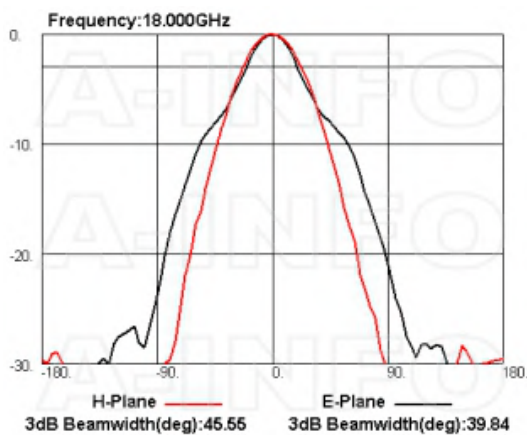
VSWR

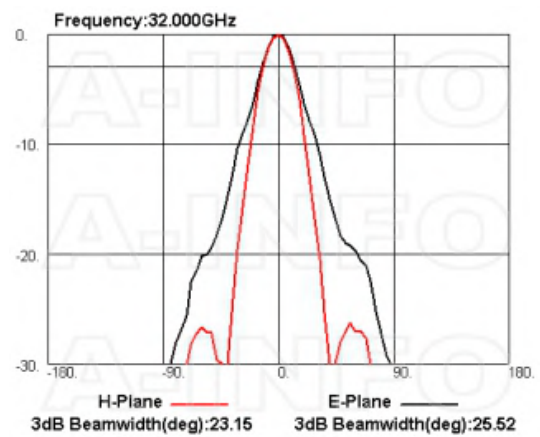
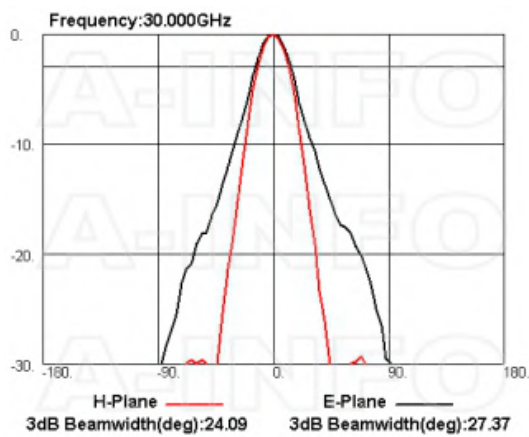
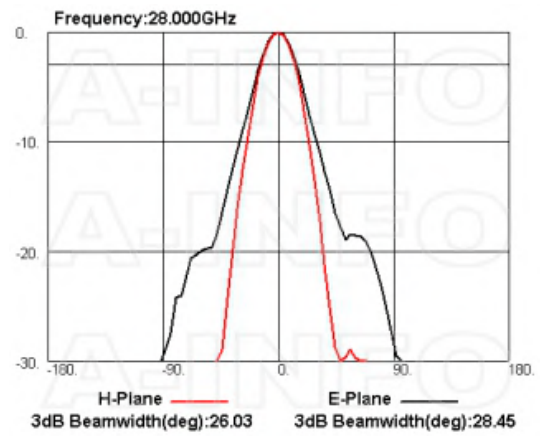
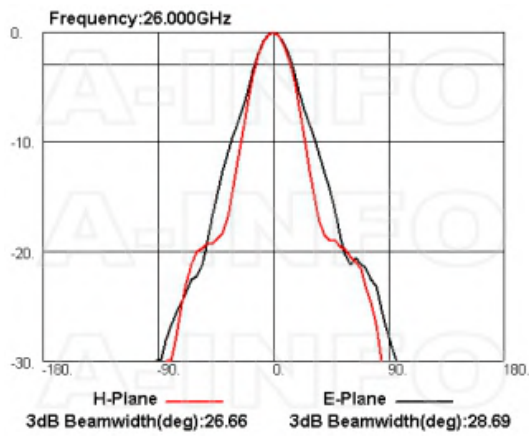
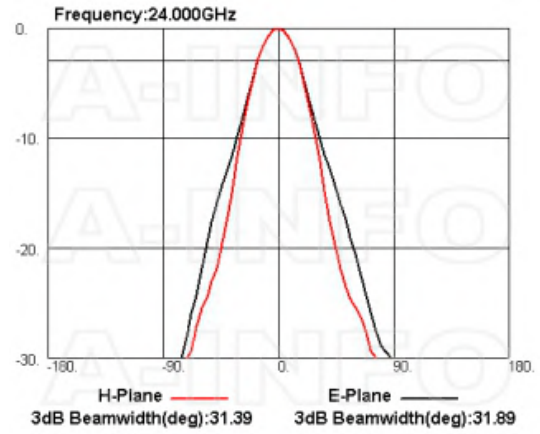
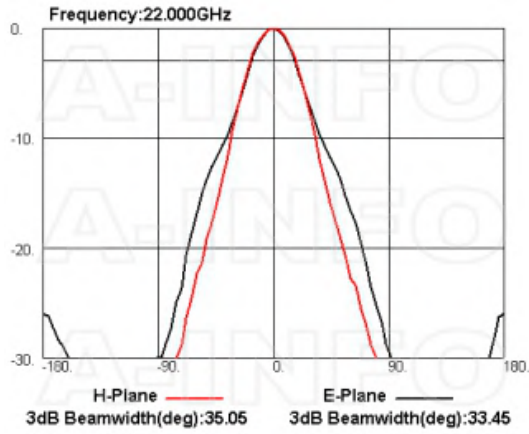


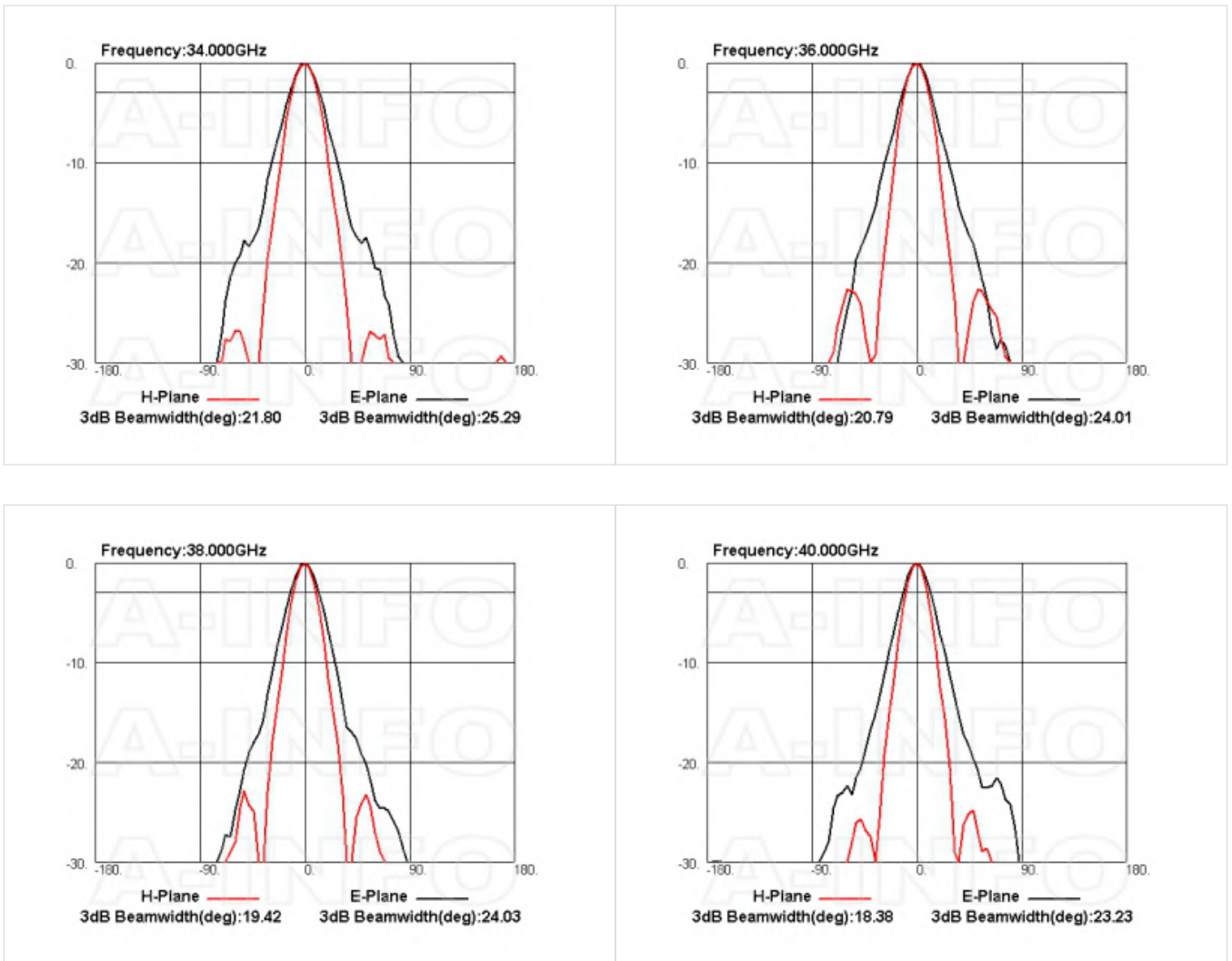
Beamwidth



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 AI Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-180400-15 AI Alloy Carrying Case

Similar Products



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



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

About this Datasheet

<ul style="list-style-type: none"> ● Product Information Product Link: https://www.ainfoinc.com/lb-180400-15-a-al-multi-octave-horn-antenna-18-40-ghz-15db-gain-fpwrdr180c24 Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved 	<ul style="list-style-type: none"> ● Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com 	<ul style="list-style-type: none"> ● Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
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