

**LB-28-20-64-C-2.4F Frequency Extended Standard Gain Horn Antenna
22.5-45GHz 20dB Gain 2.4mm Female**

Frequency Extended Standard Gain Horn Antenna Operating From 22.5GHz to 45GHz With a Nominal 20dB Gain With 2.4mm Female Connector

Product Information

SKU	LB-28-20-64-C-2.4F	Patents	ZL202130553080.4 (China) ZL202220615760.3 (China)
-----	--------------------	---------	--

Description

Frequency Extended Standard Gain Horn Antenna LB-28-20-64-C-2.4F, operating from 22.5 to 45GHz with a nominal 20dB gain and low VSWR 1.40:1 with 2.4mm Female connector output. The model LB-28-20-64-C-2.4F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 10W continuously and 20W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This standard gain horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

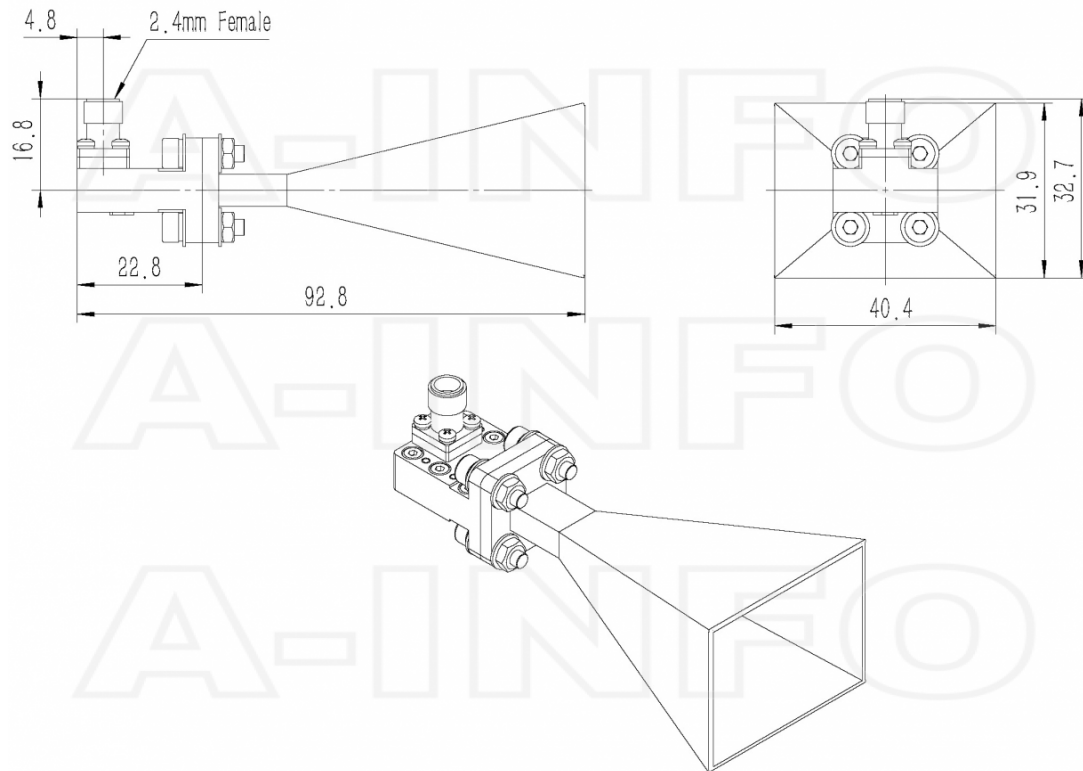
Electrical Specification		Interface	
Frequency, Min (GHz)	22.5	Output Type	Coaxial
Frequency, Max (GHz)	45	Connector	2.4mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR28	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Gold Plated and Silver Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	17	Size, W (mm)	40.4
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	32.7
VSWR, Typ	1.40:1	Size, L (mm)	92.8
Impedance, (Ohm)	50	Weight, (kg)	0.09
Power Handling, CW, (W)	10		
Power Handling, Peak, (W)	20		

Additional Information

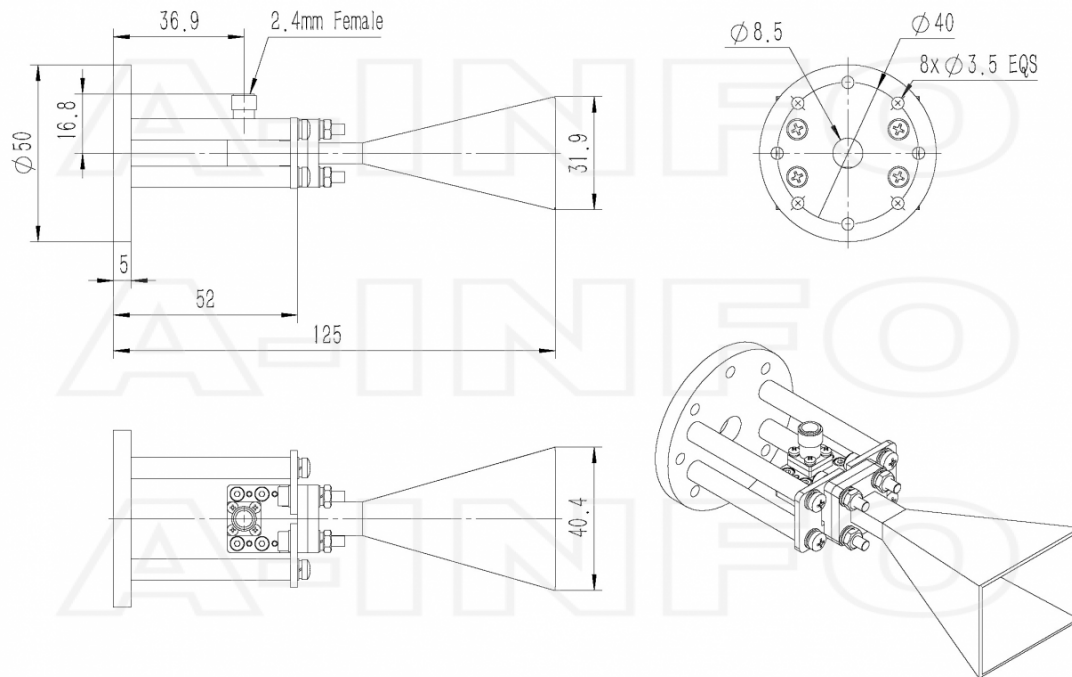
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	---	--------------	---

Outline Drawing

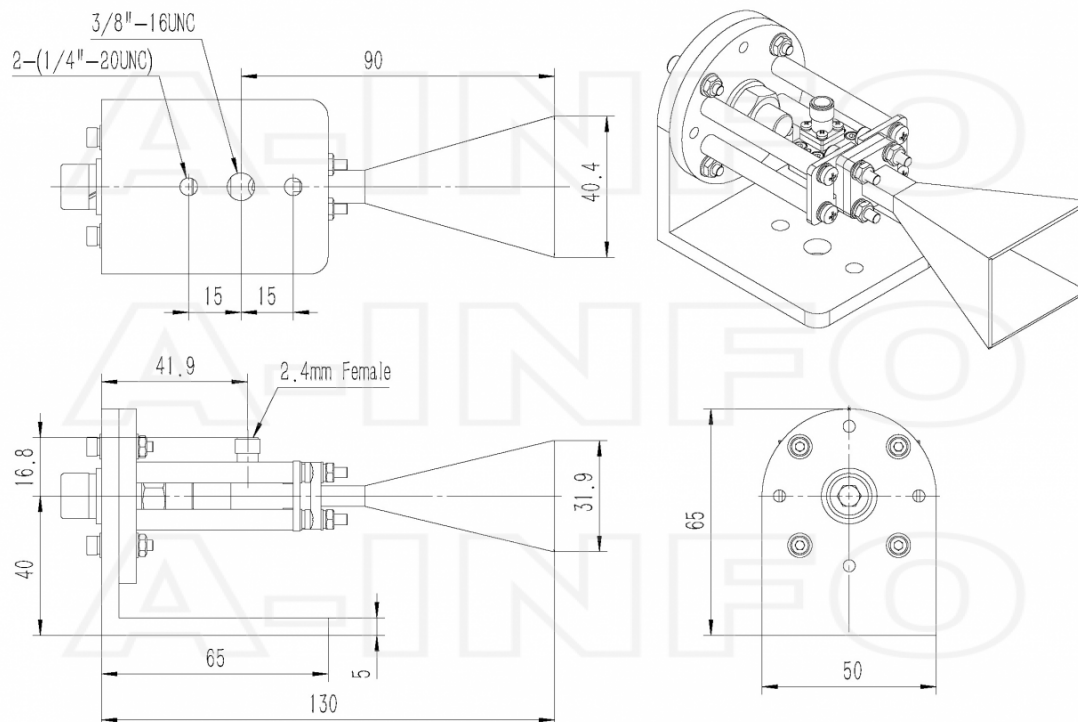
2.4mm-Female Output (P/N: LB-28-20-64-C-2.4F)



2.4mm-Female Output with Round Mounting Bracket (Option, P/N: LB-28-10-C-MB)

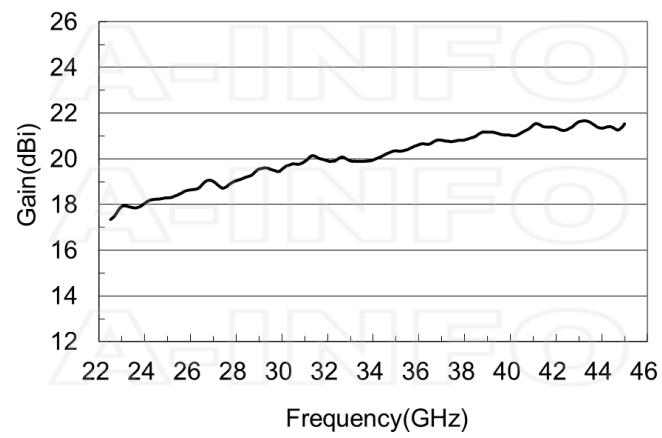


2.4mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-28-10-C-MBL)

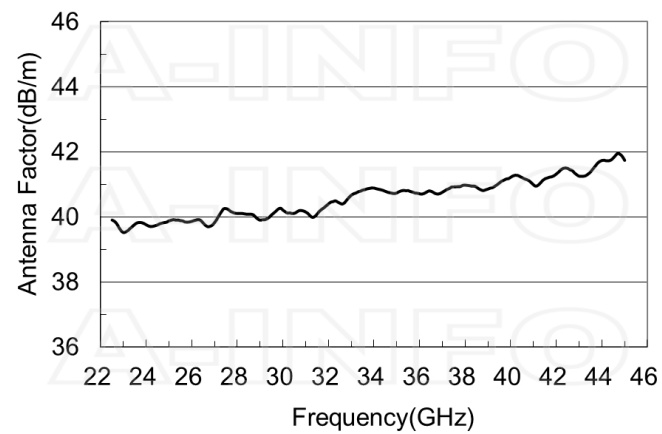


Typical Test Results

Gain



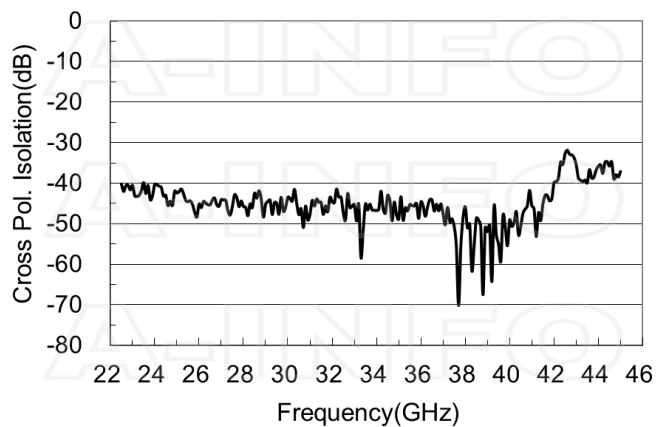
Antenna Factor



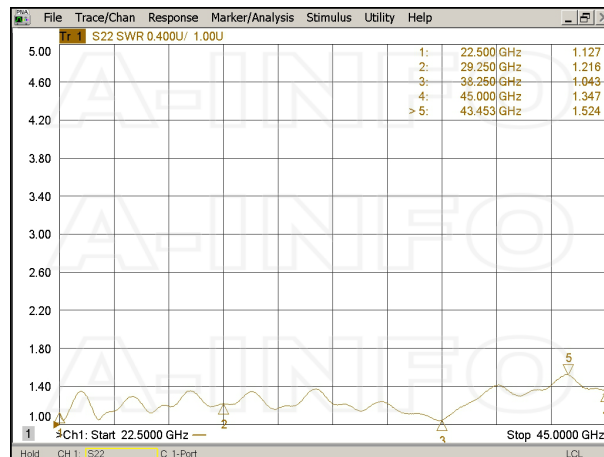
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
22.5	17.35	39.90
23.0	17.93	39.52
24.0	18.06	39.76
25.0	18.29	39.88
26.0	18.65	39.86
27.0	19.01	39.83
28.0	19.05	40.11
29.0	19.56	39.90
30.0	19.54	40.21
31.0	19.89	40.15
32.0	19.91	40.40
33.0	19.91	40.67
34.0	19.95	40.89
35.0	20.35	40.74
36.0	20.63	40.71
37.0	20.82	40.76
38.0	20.83	40.98
39.0	21.18	40.86
40.0	21.03	41.22
41.0	21.48	40.99
42.0	21.35	41.32
43.0	21.63	41.25
44.0	21.34	41.74
45.0	21.54	41.74

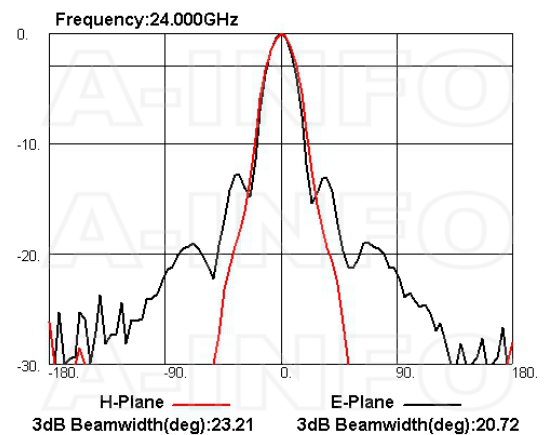
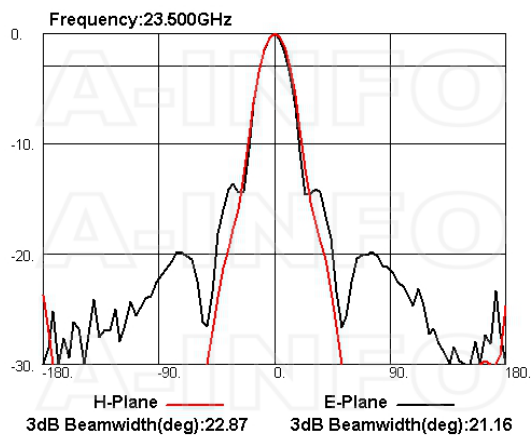
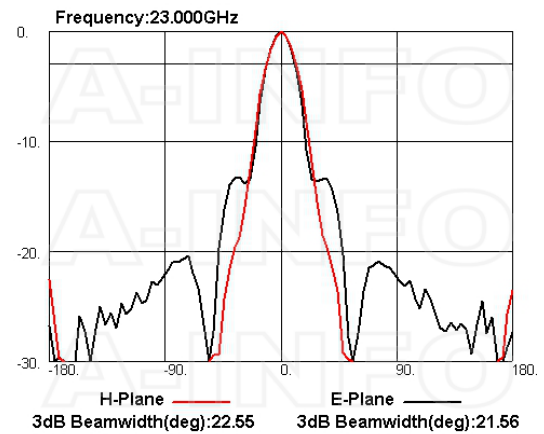
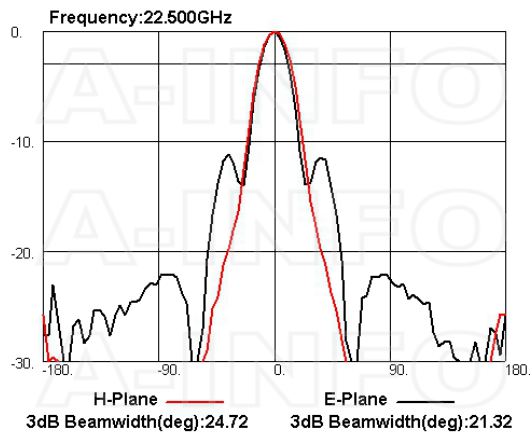
Cross Polarization Isolation

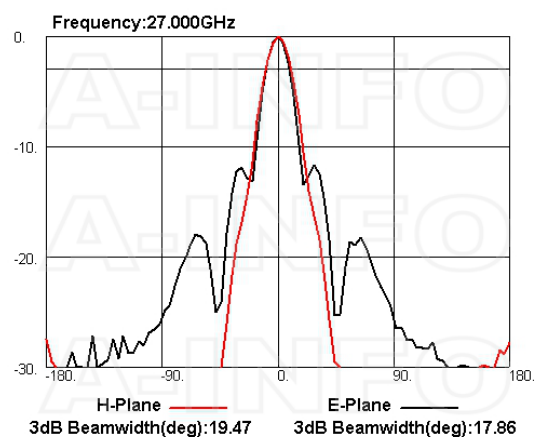
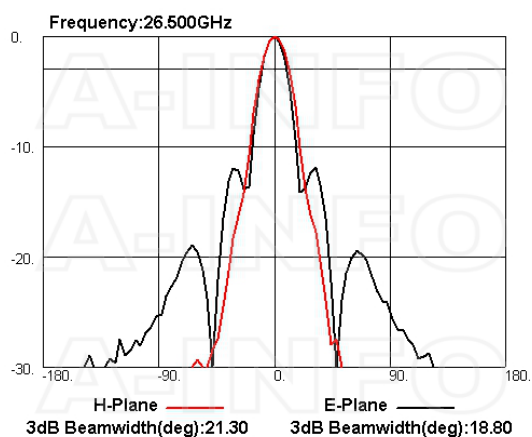
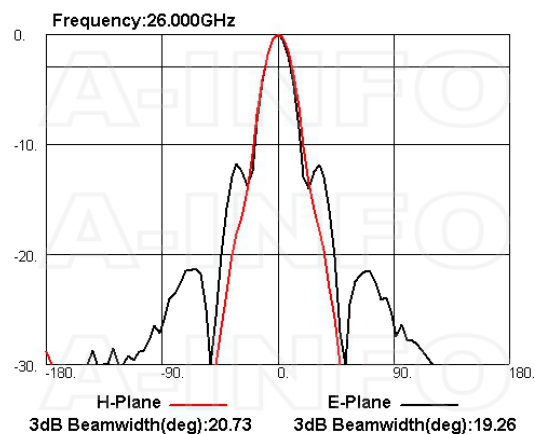
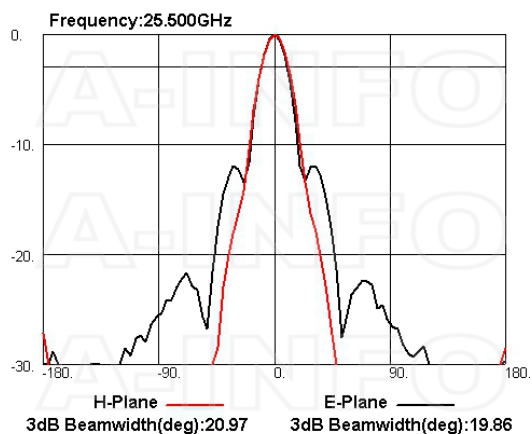
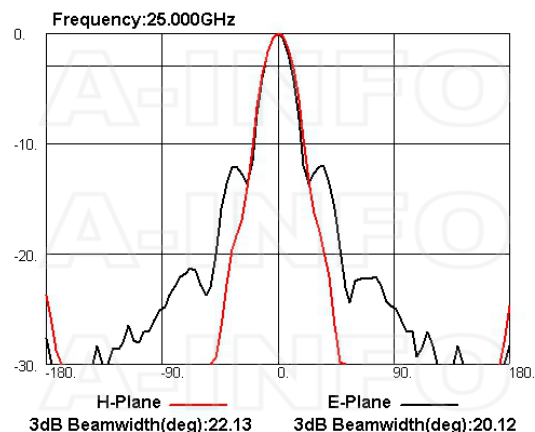
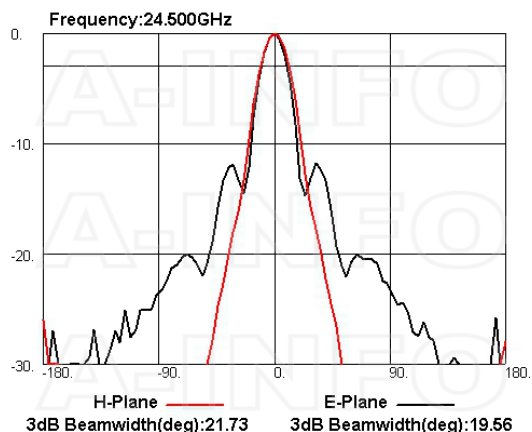


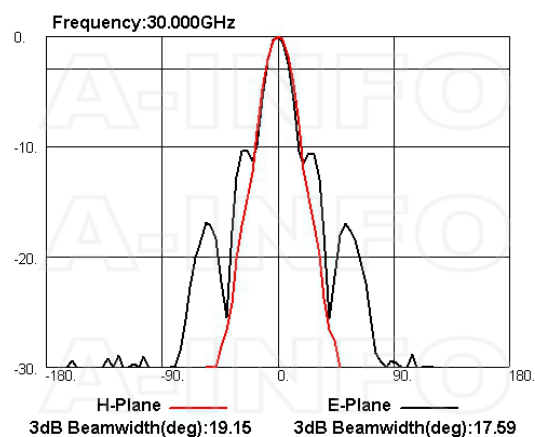
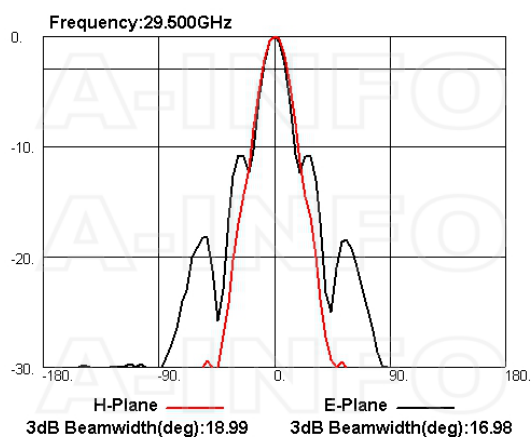
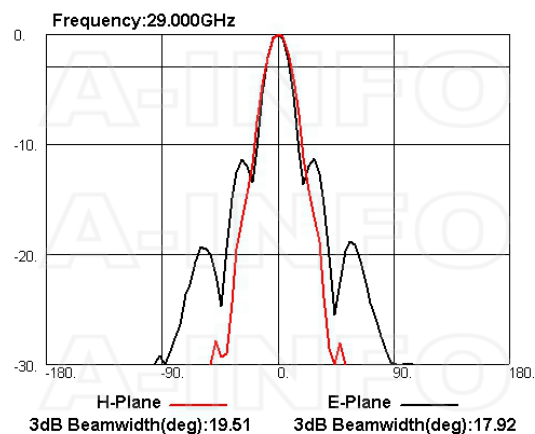
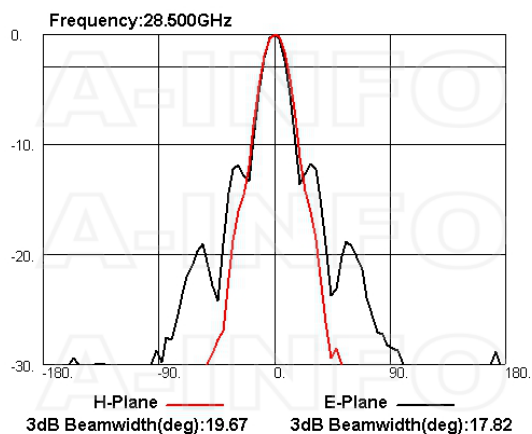
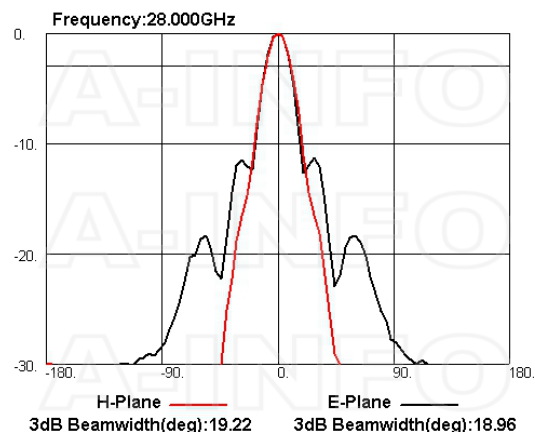
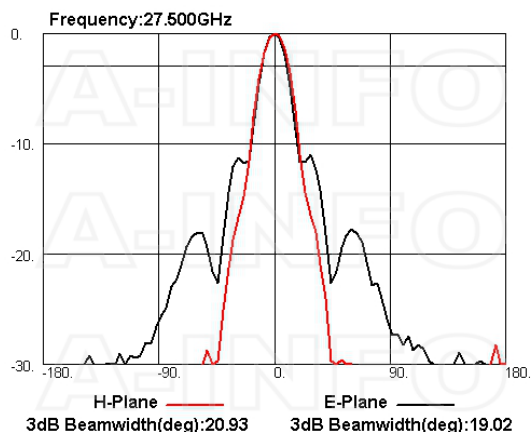
VSWR

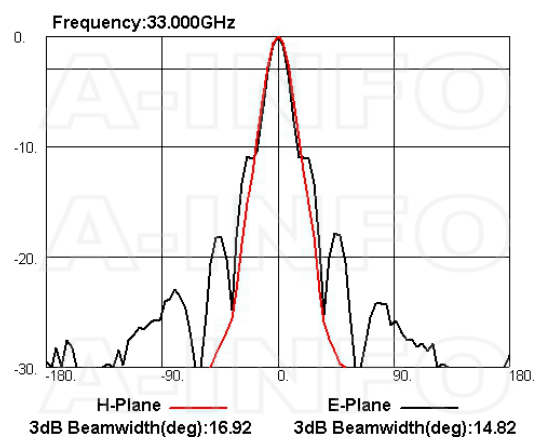
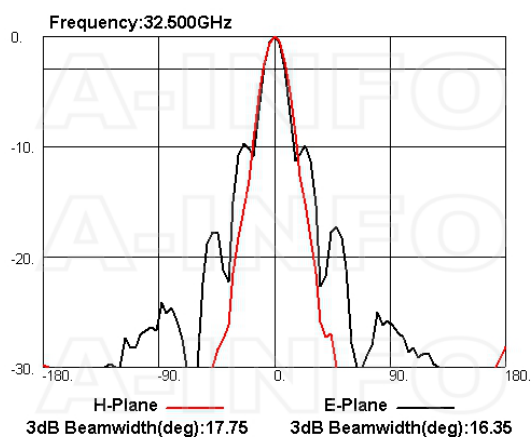
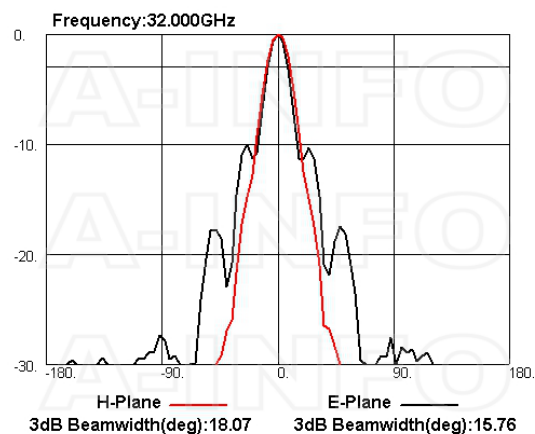
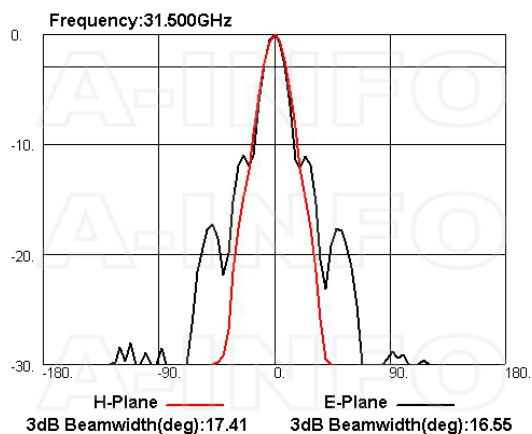
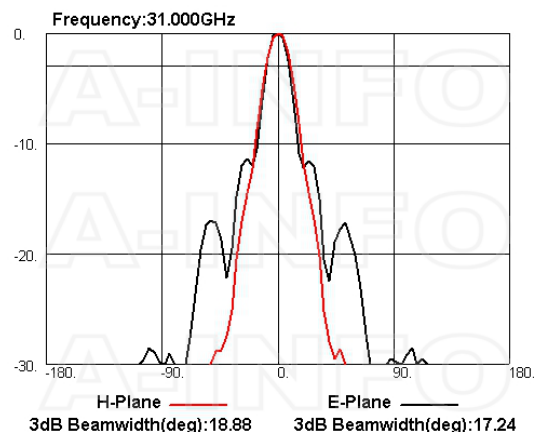
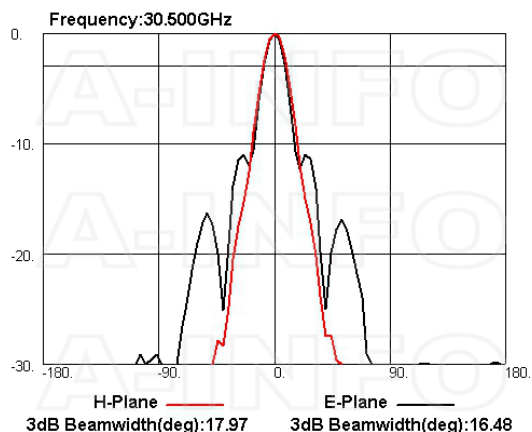


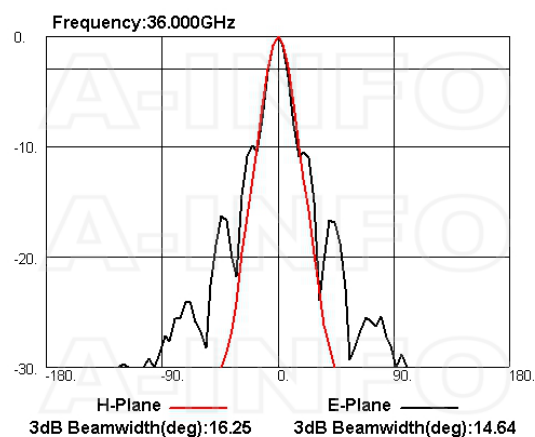
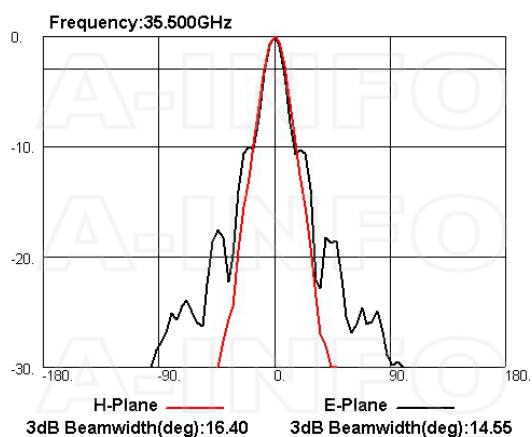
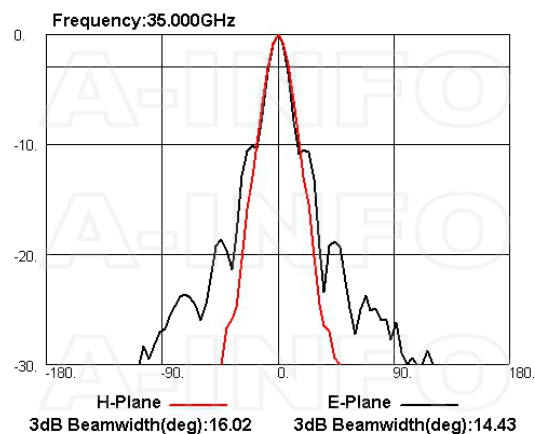
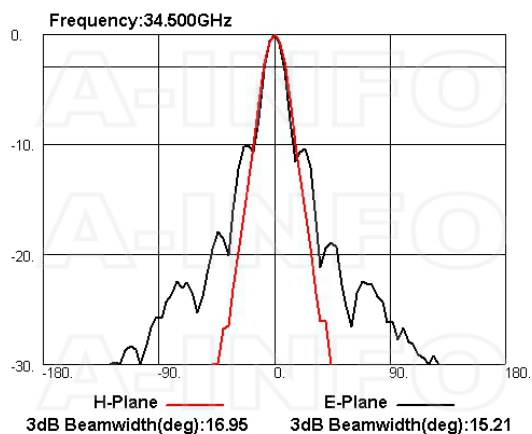
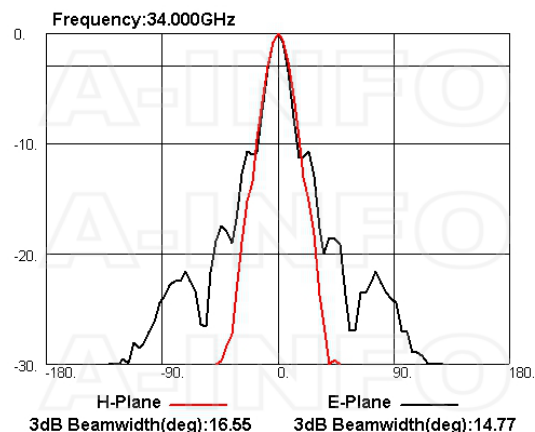
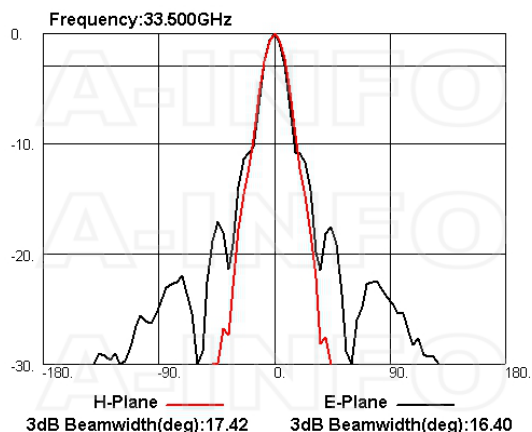
Pattern

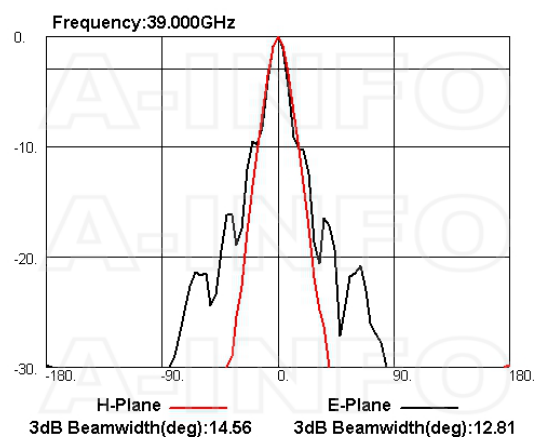
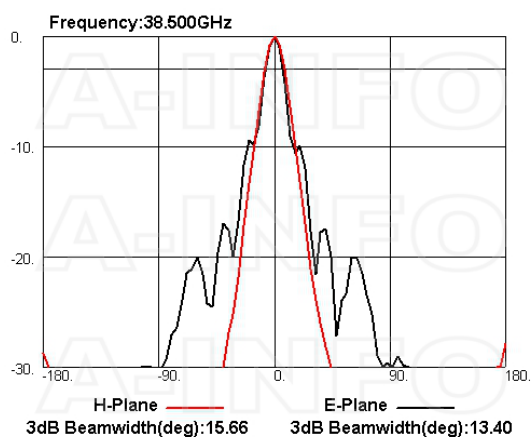
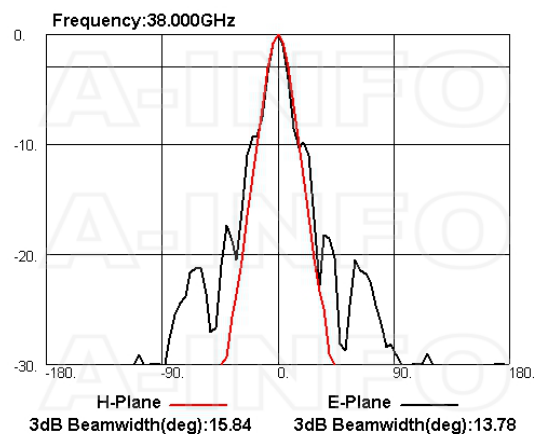
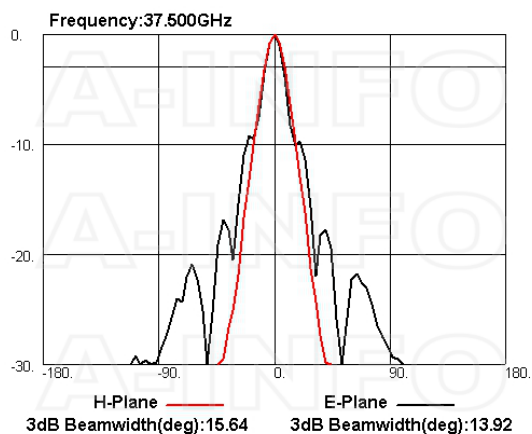
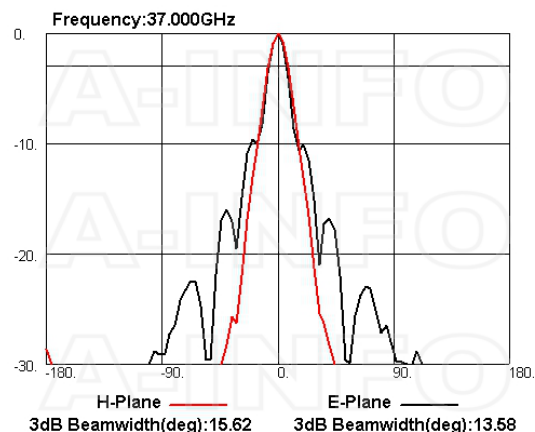
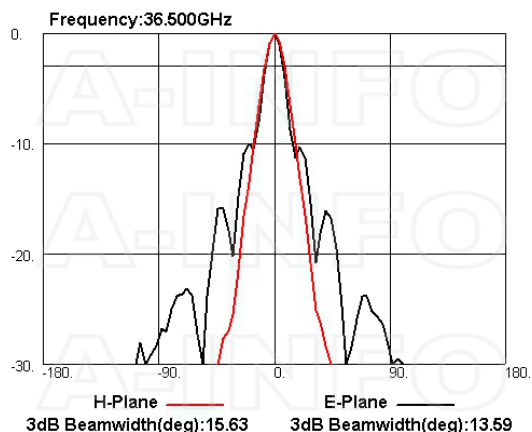


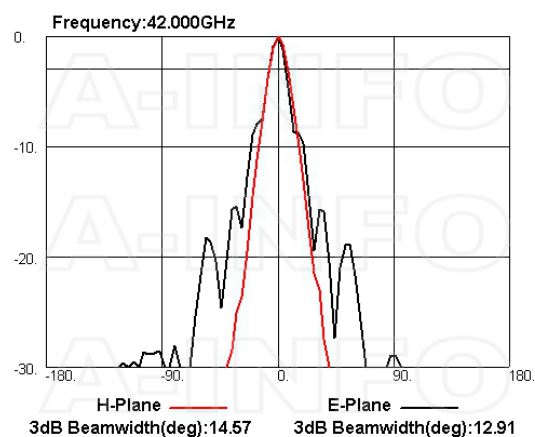
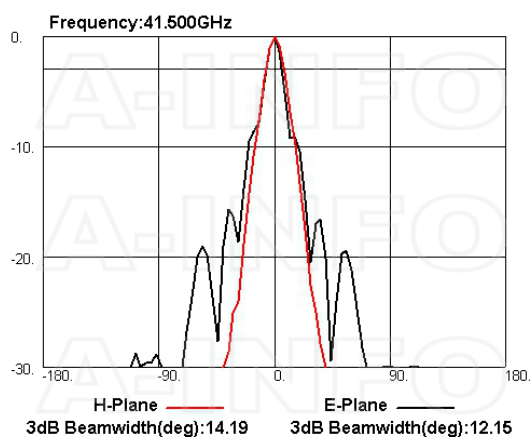
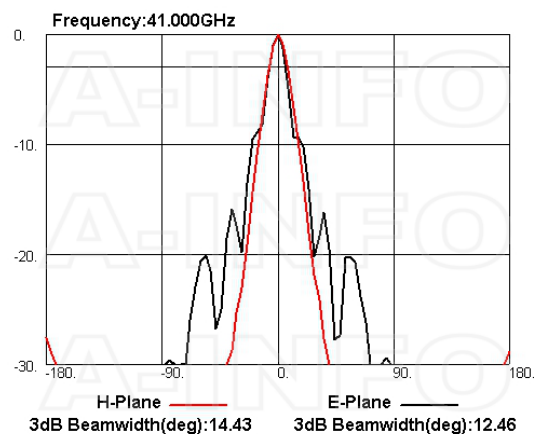
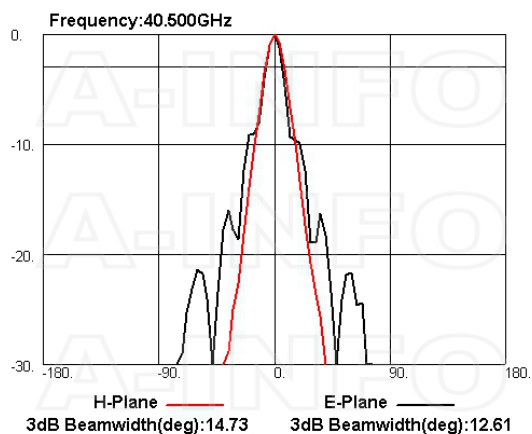
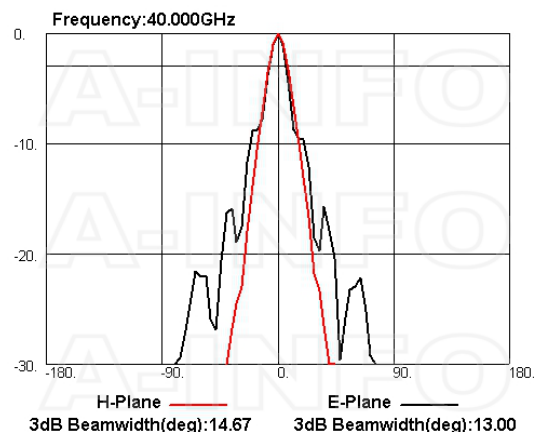
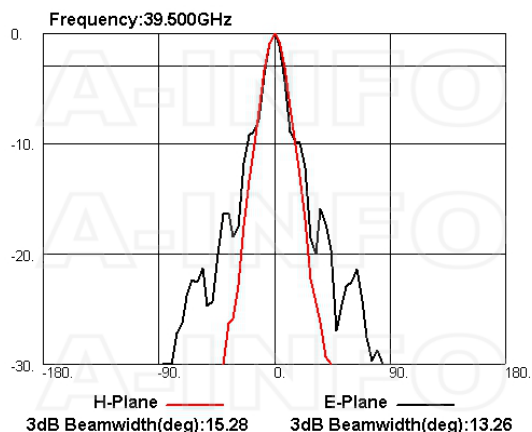


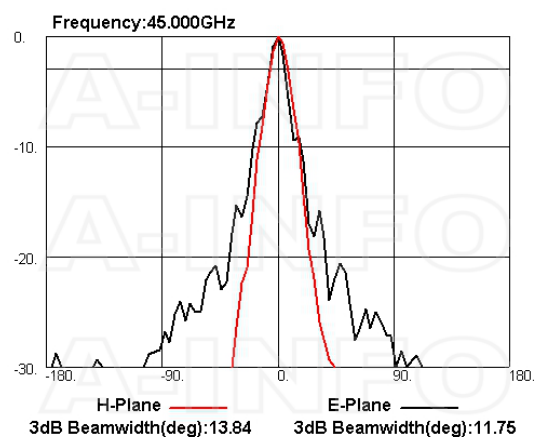
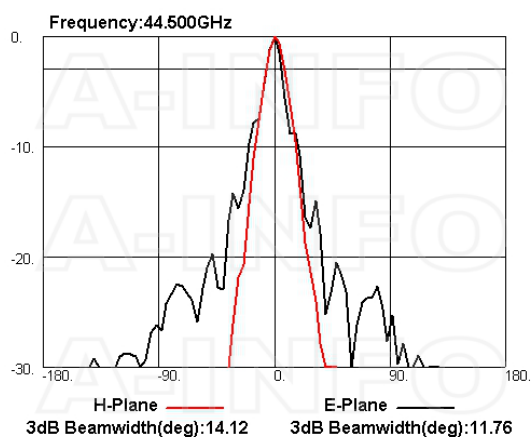
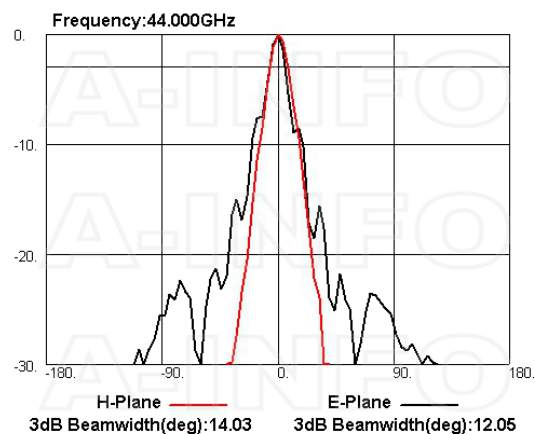
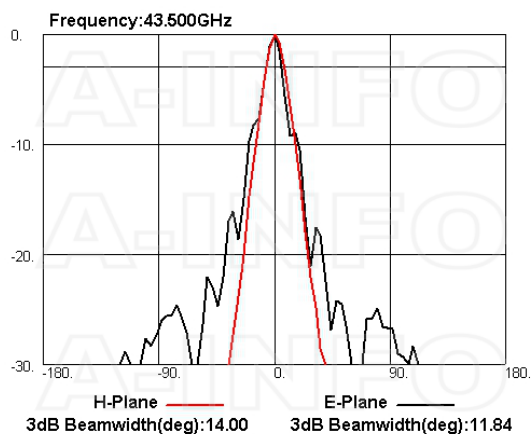
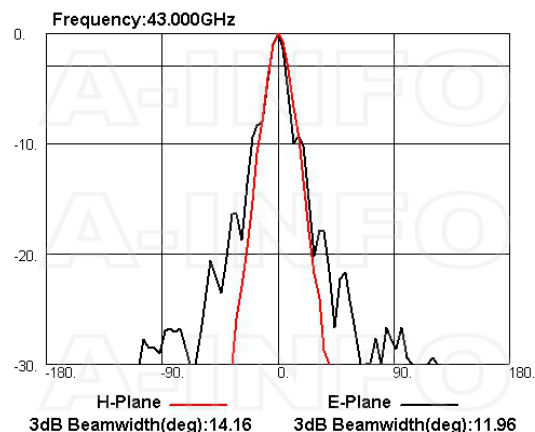
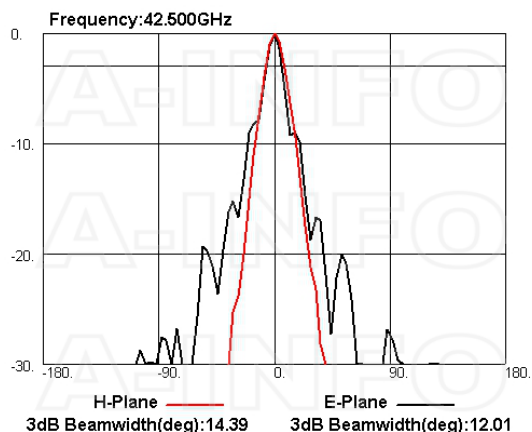












Related Products



LB-28-10-C-MB Round Type Mounting Bracket



LB-28-10-C-MBL L Type Mounting Bracket



LB-28-10-C-MA Stinger Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-28-20-C Al Alloy Carrying Case



M3x12 Hex_Pack WR28 Flange Assembly Pack



2.4M-2.4M-B020-500 Flexible Cable Assembly 500mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-1000 Flexible Cable Assembly 1000mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-1500 Flexible Cable Assembly 1500mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-2000 Flexible Cable Assembly 2000mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-3000 Flexible Cable Assembly 3000mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-5000 Flexible Cable Assembly 5000mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4M-B020-10000 Flexible Cable Assembly 10000mm DC-50GHz 2.4mm Male to 2.4mm Male



2.4M-2.4F-B020S-500 Flexible Cable Assembly 500mm DC-50GHz 2.4mm Male to 2.4mm Female



2.4M-2.4F-B020S-1000 Flexible Cable Assembly 1000mm DC-50GHz 2.4mm Male to 2.4mm Female



2.4M-2.4F-B020S-1500 Flexible Cable Assembly 1500mm DC-50GHz 2.4mm Male to 2.4mm Female



2.4M-2.4F-B020S-3000 Flexible Cable Assembly 3000mm DC-50GHz 2.4mm Male to 2.4mm Female



2.4M-2.4F-B020S-2000 Flexible Cable Assembly 2000mm DC-50GHz 2.4mm Male to 2.4mm Female

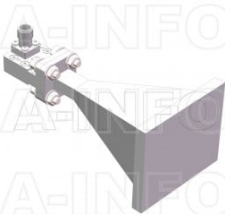


2.4M-2.4F-B020S-5000 Flexible Cable Assembly 5000mm DC-50GHz 2.4mm Male to 2.4mm Female



2.4M-2.4F-B020S-10000 Flexible Cable Assembly 10000mm DC-50GHz 2.4mm Male to 2.4mm Female

Similar Products



LB-28-20-64-C-2.4FSPO Frequency Extended Standard Gain Horn Antenna 22.5-45GHz 20dB Gain 2.4mm Female



LB-28-20-64-C-KF Frequency Extended Standard Gain Horn Antenna 22.5-45GHz 20dB Gain 2.92mm Female



LB-28-20-64-C-KFSPO Frequency Extended Standard Gain Horn Antenna 22.5-45GHz 20dB Gain 2.92mm Female

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-28-20-64-c-2-4f-frequency-extended-standard-gain-horn-antenna-22-5-45ghz-20db-gain-2-4mm-female Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	• Contact Us Address:dd 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com	• Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
---	--	---