



LB-28-20-A Standard Gain Horn Antenna 26.5-40GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 26.5GHz to 40GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-28-20-A
-----	------------

Description

Standard Gain Horn Antenna LB-28-20-A, operating from 26.5 to 40GHz with a nominal 20dB gain and low VSWR 1.15:1 with FBP320 output. The model LB-28-20-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 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

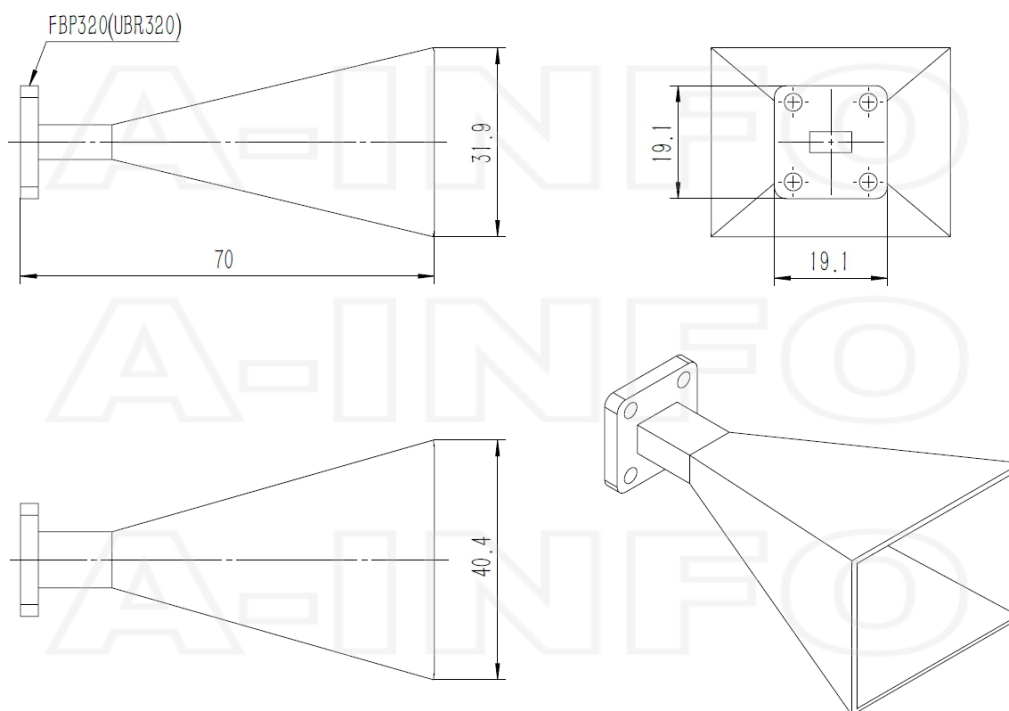
Electrical Specification		Interface	
Frequency, Min (GHz)	26.5	Output Type	Waveguide
Frequency, Max (GHz)	40	Flange Style	Square
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR28	Flange Designation	FBP320(UBR320)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	40	Finish	Silver Plated, Gray Paint
VSWR, Typ	1.15:1	Size, W (mm)	40.4
		Size, H (mm)	31.9
		Size, L (mm)	70
		Weight, (kg)	0.05

Additional Information

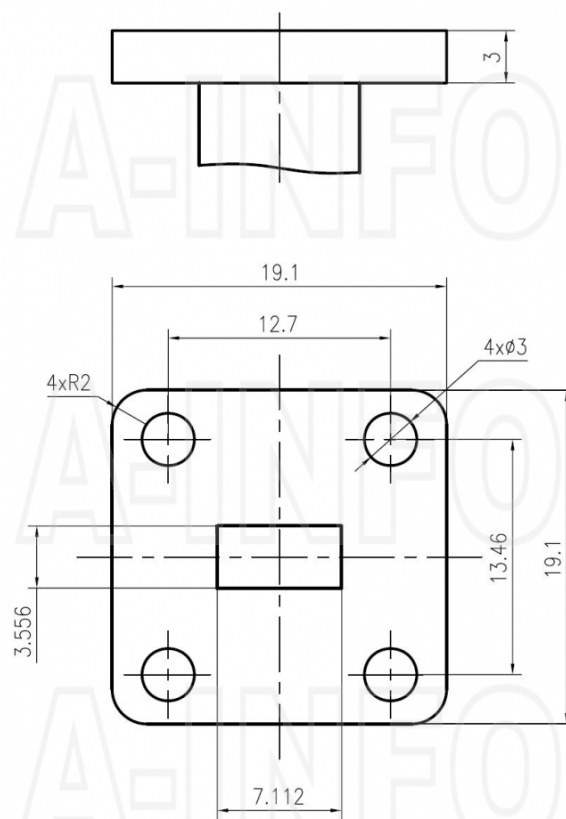
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	---	--------------	---

Outline Drawing

FBP320 Output (P/N: LB-28-20-A)



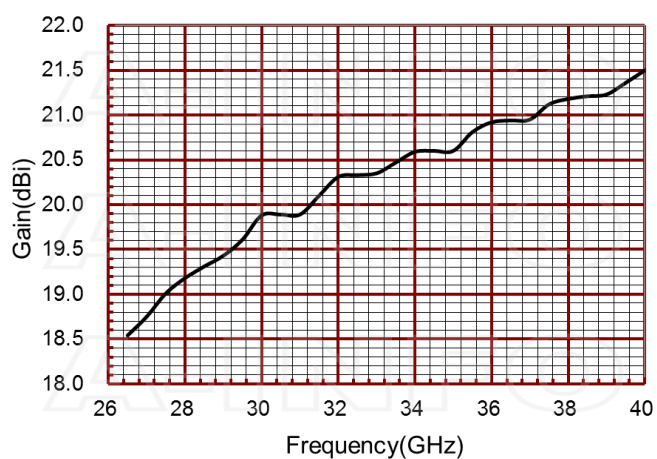
Flange Drawing



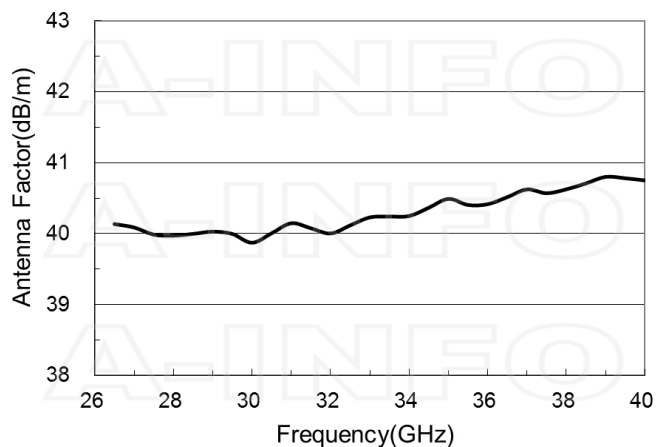
FBP320

Typical Test Results

Gain



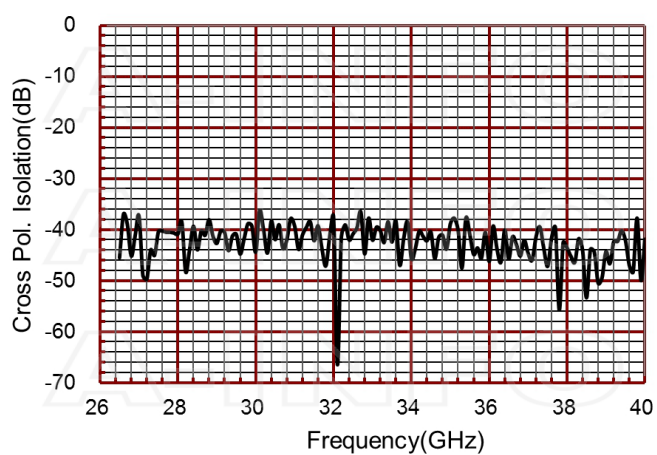
Antenna Factor



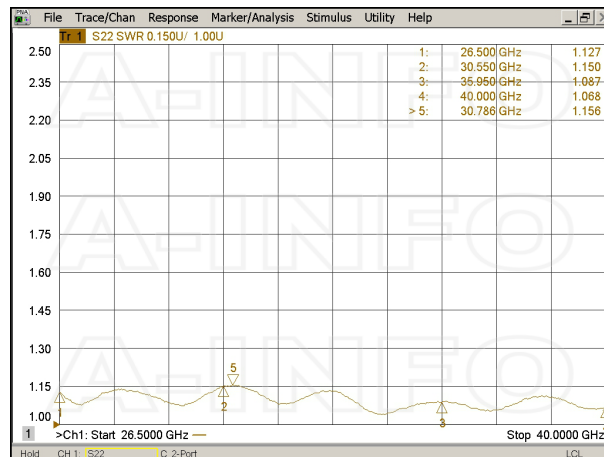
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
26.5	18.54	40.13		33.5	20.47	40.24
27	18.75	40.09		34	20.59	40.25
27.5	19.01	39.99		34.5	20.6	40.37
28	19.18	39.97		35	20.6	40.49
28.5	19.31	40.00		35.5	20.81	40.40
29	19.43	40.03		36	20.92	40.42
29.5	19.61	40.00		36.5	20.94	40.52
30	19.88	39.87		37	20.95	40.62
30.5	19.89	40.01		37.5	21.12	40.57
31	19.89	40.15		38	21.18	40.63
31.5	20.1	40.08		38.5	21.21	40.71
32	20.31	40.00		39	21.23	40.80
32.5	20.33	40.12		39.5	21.36	40.78
33	20.35	40.23		40	21.5	40.75

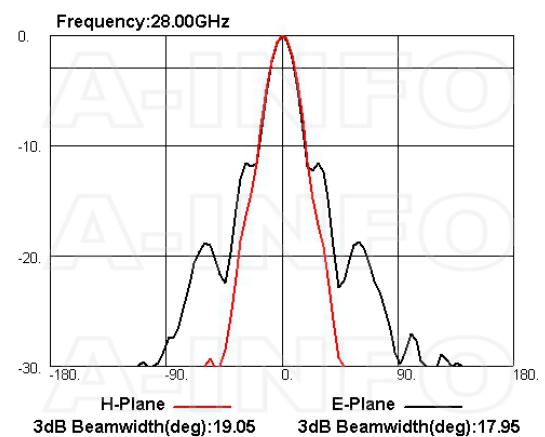
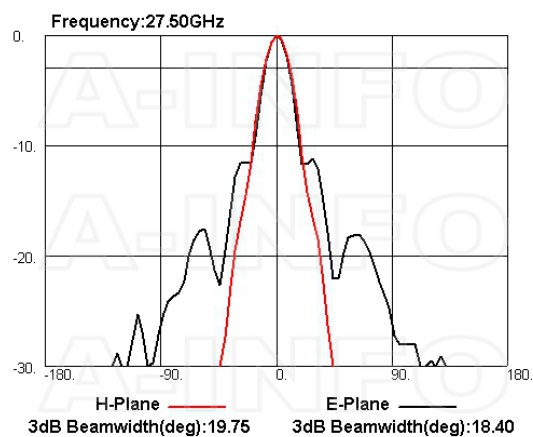
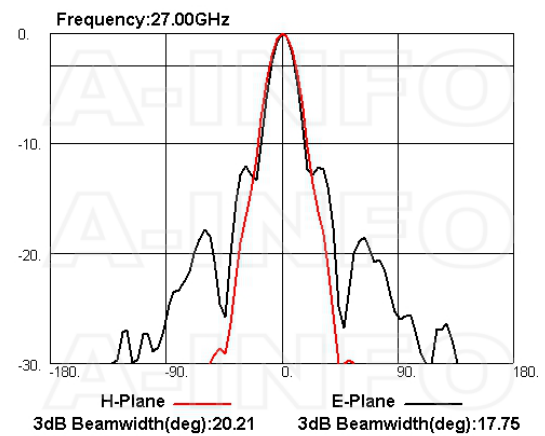
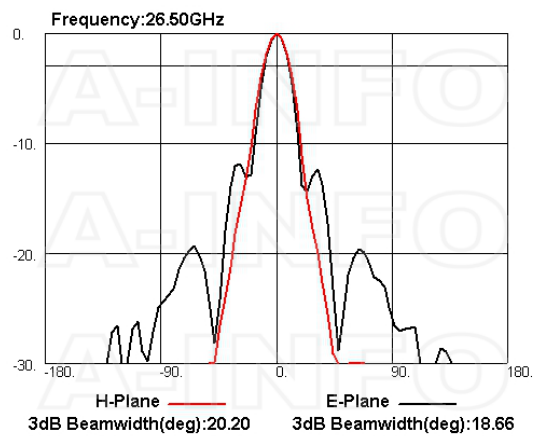
Cross Polarization Isolation

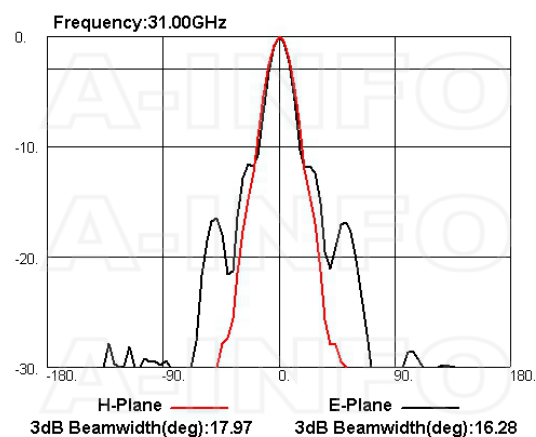
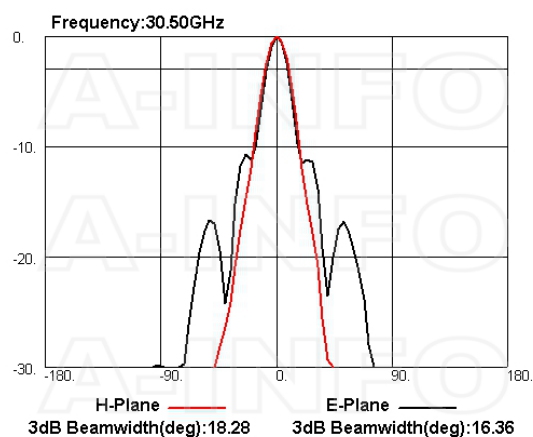
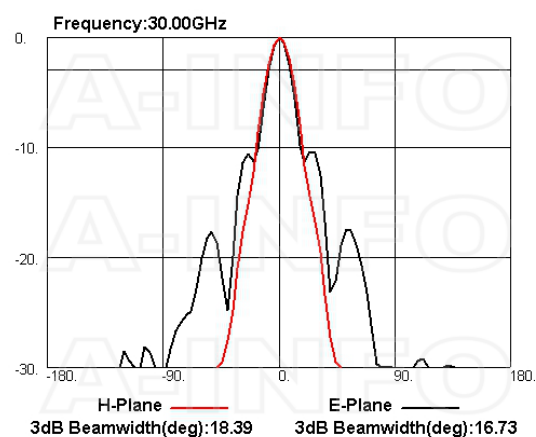
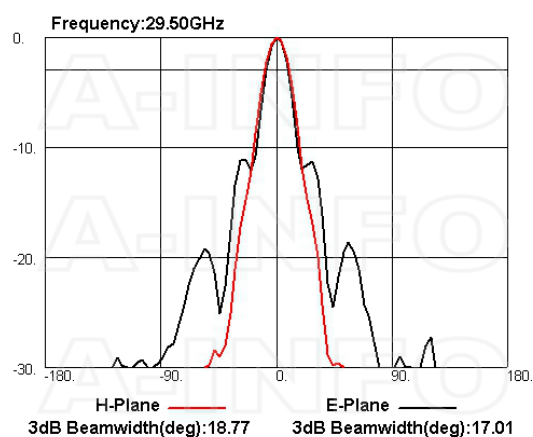
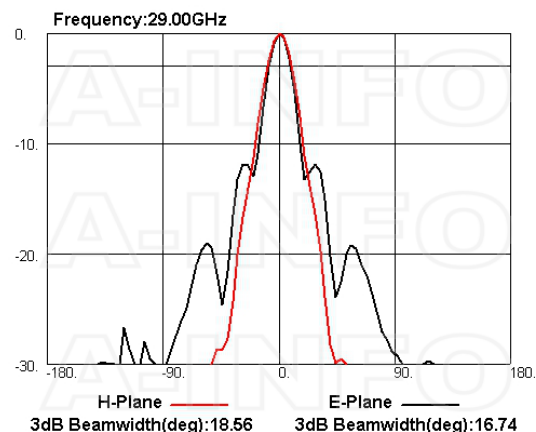
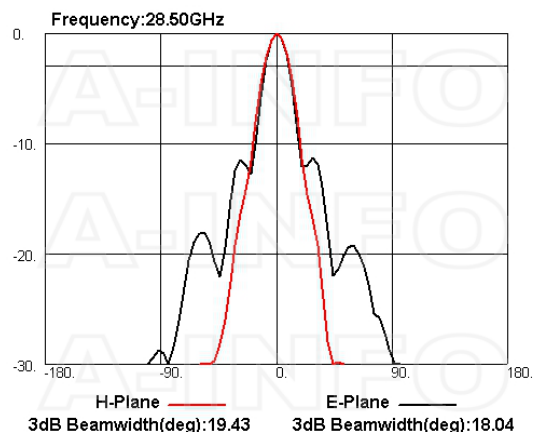


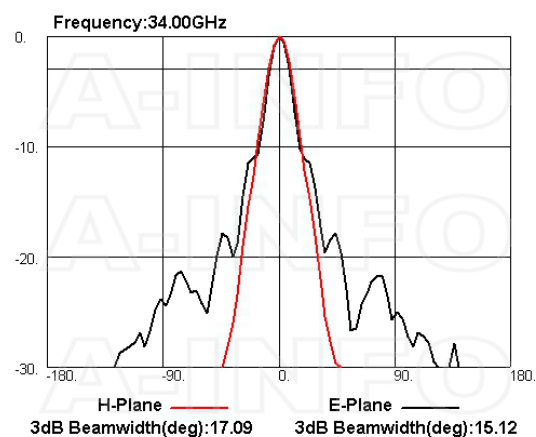
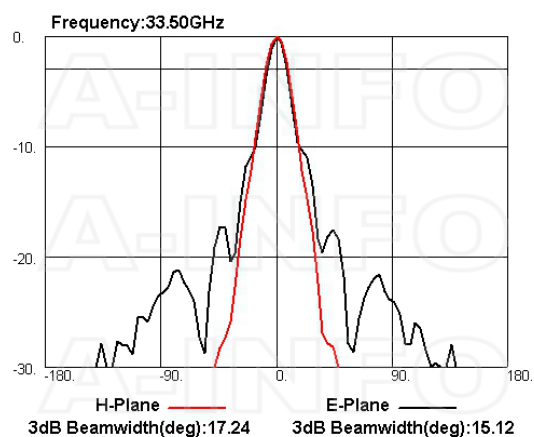
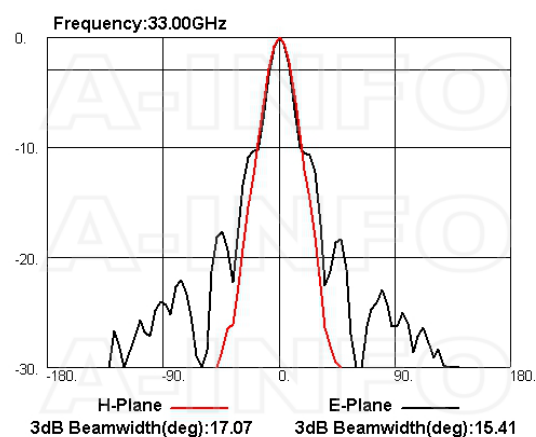
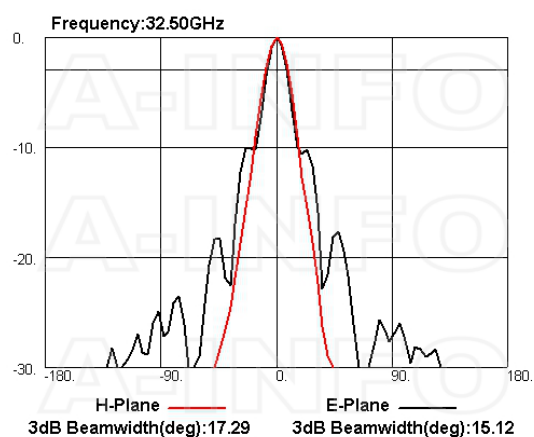
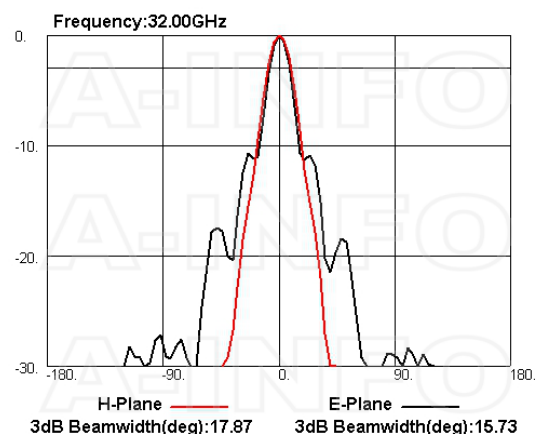
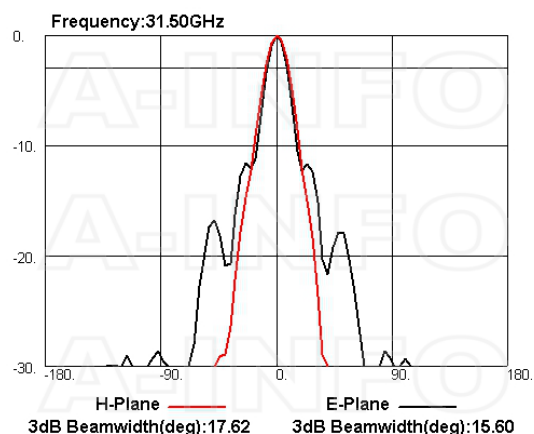
VSWR

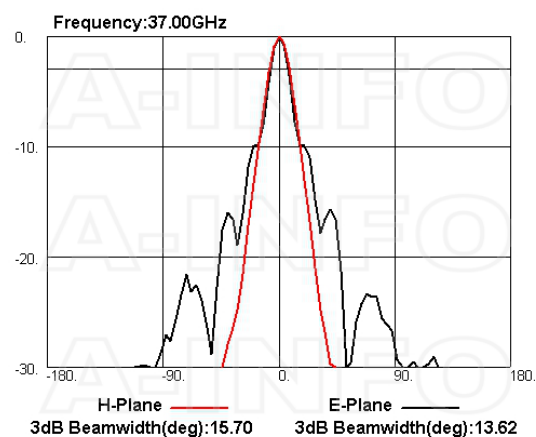
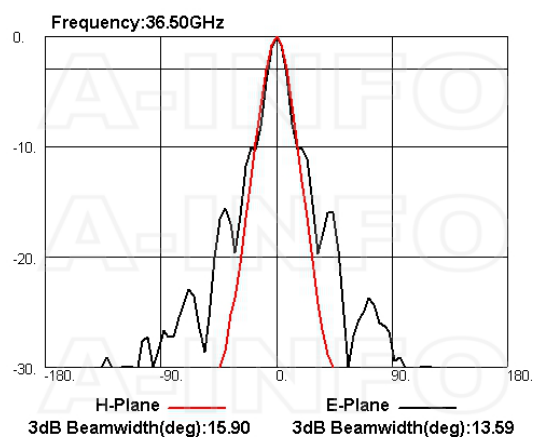
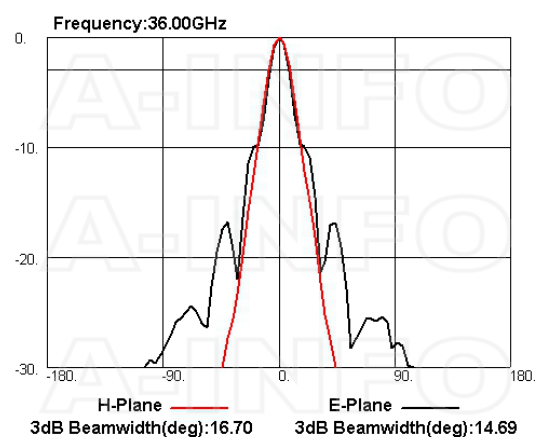
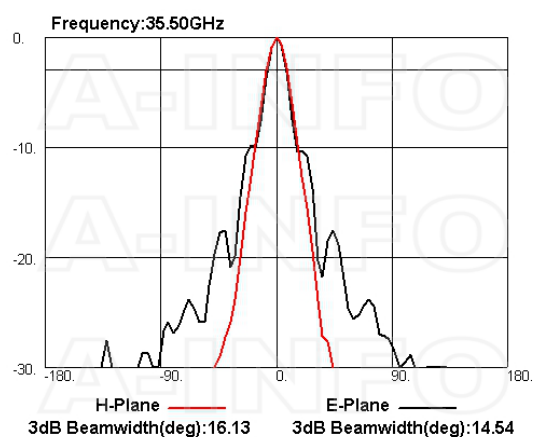
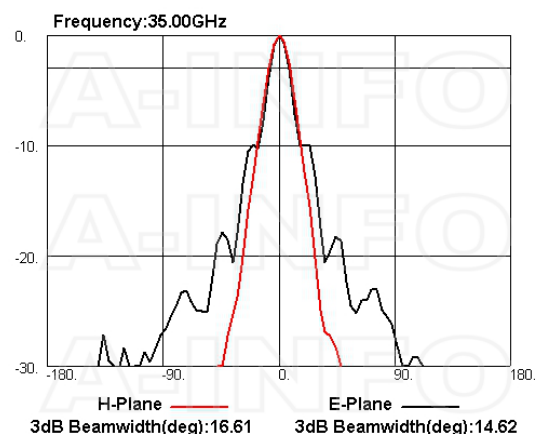
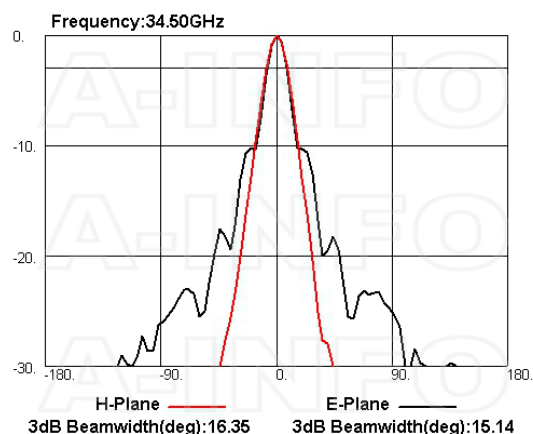


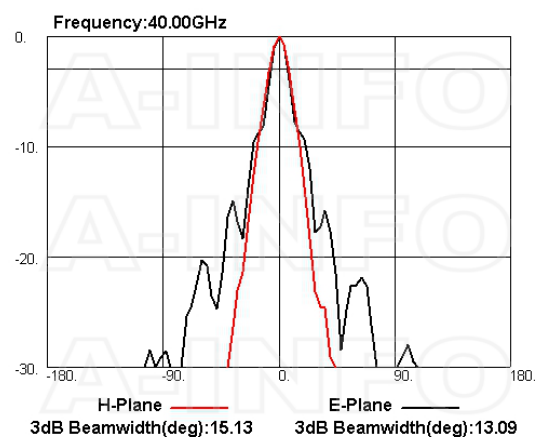
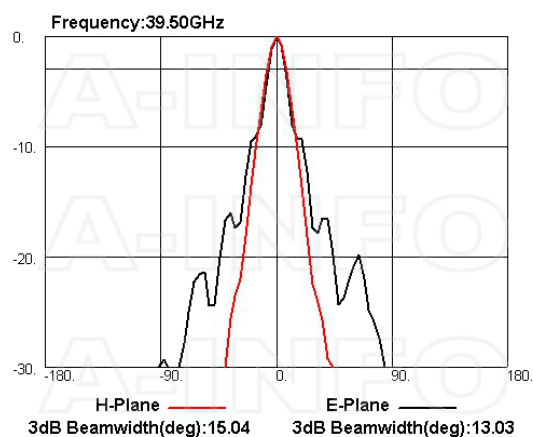
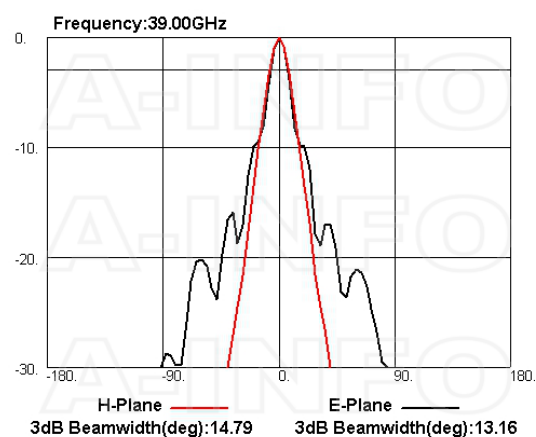
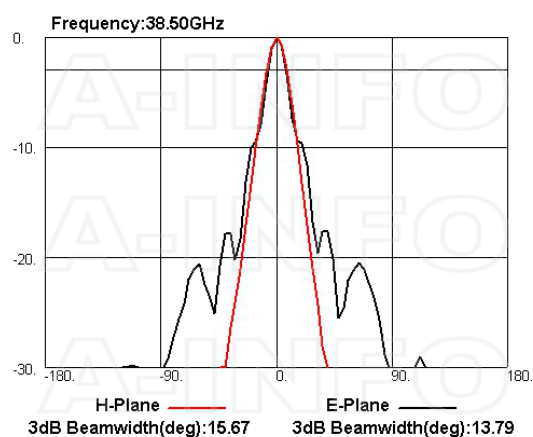
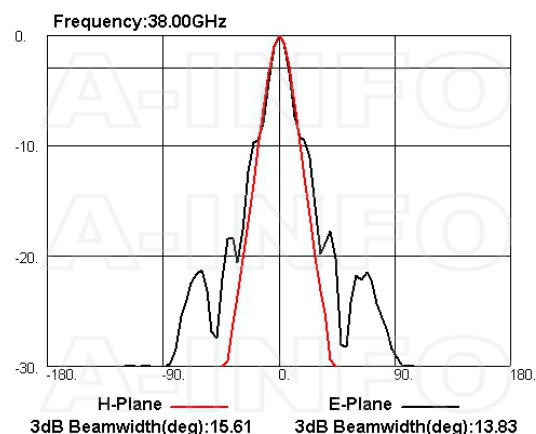
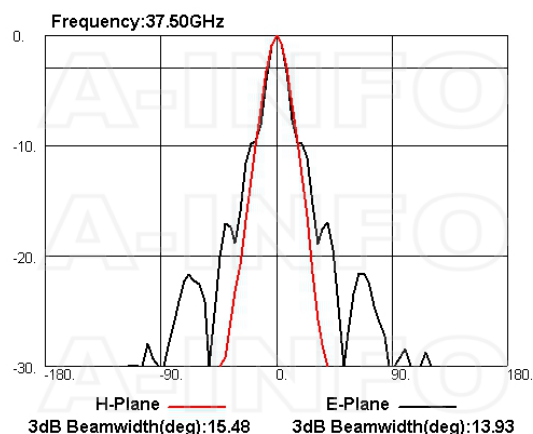
Pattern











Related Products



28WCA3.5_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-33GHz WR28 to 3.5mm Female



28WCA3.5M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-33GHz WR28 to 3.5mm Male



28WCAK_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.92mm Female



28WCAKM_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.92mm Male



28WCA2.4_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.4mm Female



28WCA2.4M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.4mm Male



28WCA1.85_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 1.85mm Female



28WCA1.85M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 1.85mm Male



28WECAK_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.92mm Female



28WECAKM_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.92mm Male



28WECA2.4_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 26.5-40GHz WR28 to 2.4mm Female



M3x12 Hex_Pack WR28 Flange Assembly Pack

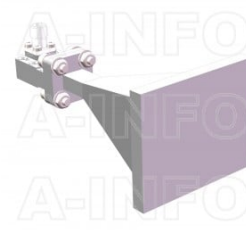
Similar Products



LB-28-20-ASPO Standard Gain Horn Antenna 26.5-40GHz 20dB Gain Rectangular Waveguide Interface



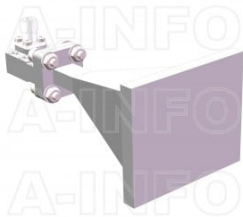
LB-28-20-C-KF Standard Gain Horn Antenna 26.5-40GHz 20dB Gain 2.92mm Female



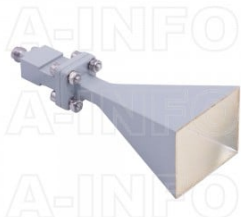
LB-28-20-C-KFSPO Standard Gain Horn Antenna 26.5-40GHz 20dB Gain 2.92mm Female



LB-28-20-C-2.4F Standard Gain Horn Antenna 26.5-40GHz 20dB Gain 2.4mm Female



LB-28-20-C-2.4FSPO Standard
Gain Horn Antenna 26.5-40GHz
20dB Gain 2.4mm Female



LB-28-20-C-E2.4F Standard Gain
Horn Antenna 26.5-40GHz 20dB
Gain Endlaunch 2.4mm Female



LB-28-20-C-E2.4FSPO Standard
Gain Horn Antenna 26.5-40GHz
20dB Gain Endlaunch 2.4mm
Female

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-28-20-a-standard-gain-horn-antenna-26-5-40-ghz-20db-gain-fbp320 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
---	--	---