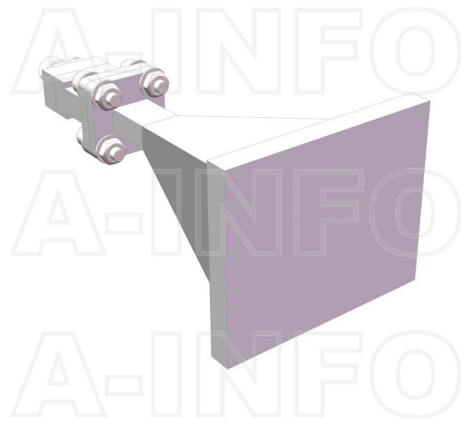


LB-28-20-C-E2.4FSPO Standard Gain Horn Antenna 26.5-40GHz 20dB Gain Endlaunch 2.4mm Female



Standard Gain Horn Antenna Operating From 26.5GHz to 40GHz With a Nominal 20dB Gain With Endlaunch 2.4mm Female Connector

### Product Information

SKU	LB-28-20-C-E2.4FSPO
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### Description

Standard Gain Horn Antenna LB-28-20-C-E2.4FSPO, operating from 26.5 to 40GHz with a nominal 20dB gain and low VSWR 1.25:1 with Endlaunch 2.4mm Female connector output. The model LB-28-20-C-E2.4FSPO 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 horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. 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

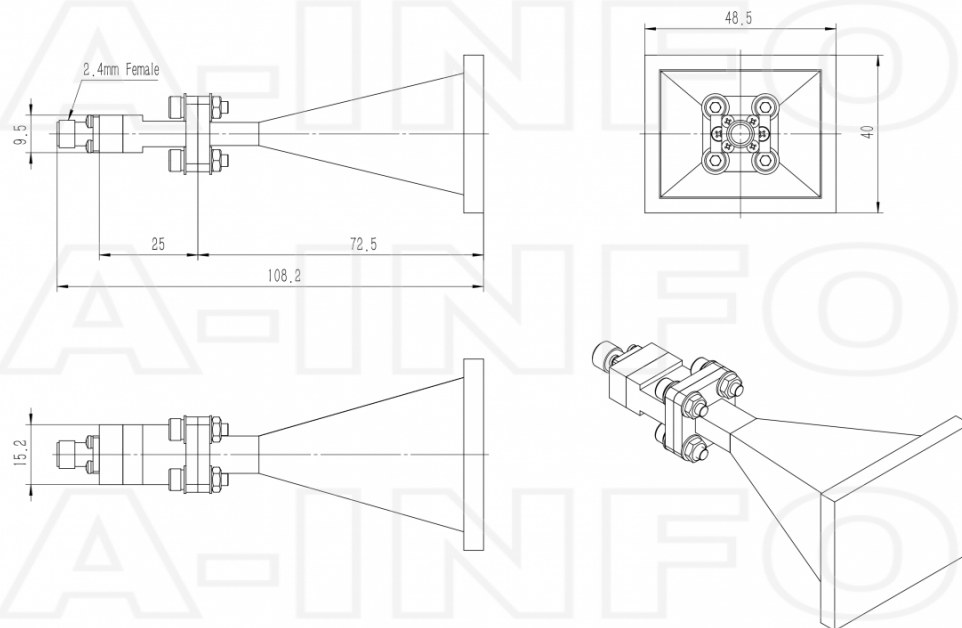
Electrical Specification		Interface	
Frequency, Min (GHz)	26.5	Output Type	Coaxial
Frequency, Max (GHz)	40	Connector	2.4mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR28	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Finish	Gold Plated and Silver Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Size, W (mm)	48.5
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	40
VSWR, Typ	1.25:1	Size, L (mm)	108.2
Impedance, (Ohm)	50	Weight, (kg)	0.1
Power Handling, CW, (W)	10		
Power Handling, Peak, (W)	20		

### Additional Information

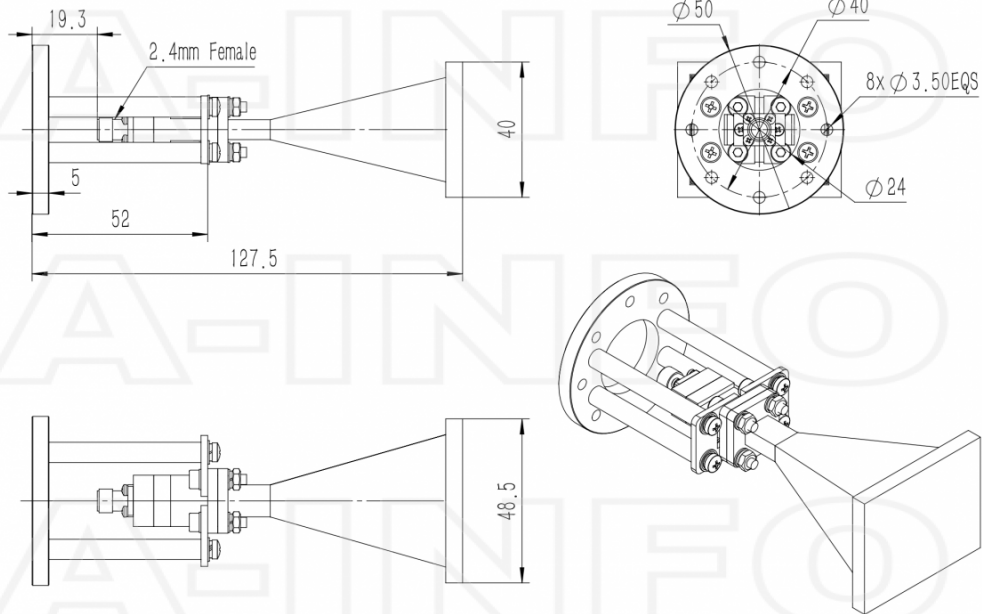
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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### Outline Drawing

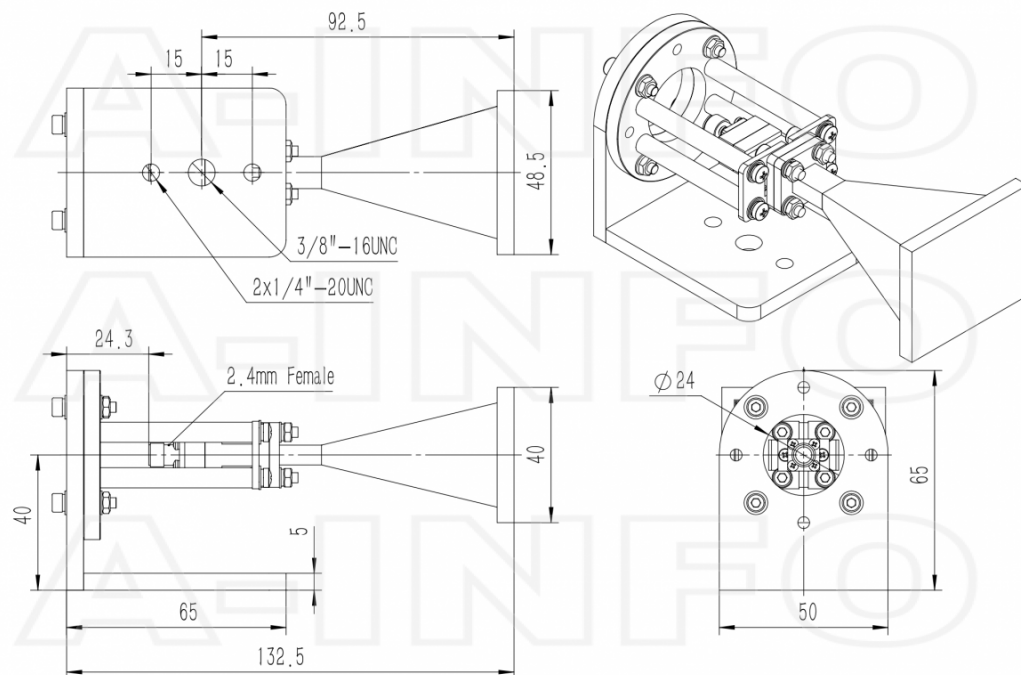
Endlaunch 2.4mm-Female Output with Radome (Option, P/N: LB-28-20-C-E2.4FSPO, Outdoor Application)



Endlaunch 2.4mm-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-28-10-C-MB& LB-28-20-C-E2.4FSPO, Outdoor Application)

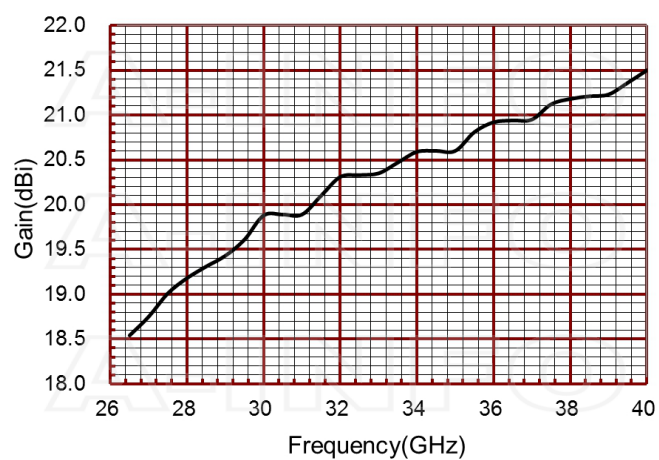


Endlaunch 2.4mm-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-28-10-C-MBL & LB-28-20-C-E2.4FSPO, Outdoor Application)

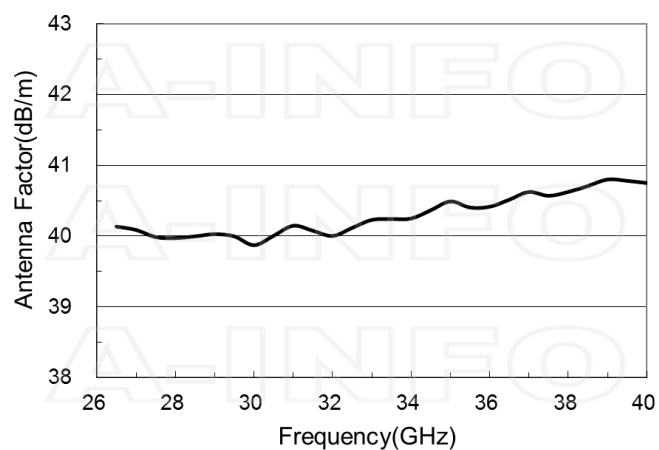


## Typical Test Results

### Gain



### Antenna Factor

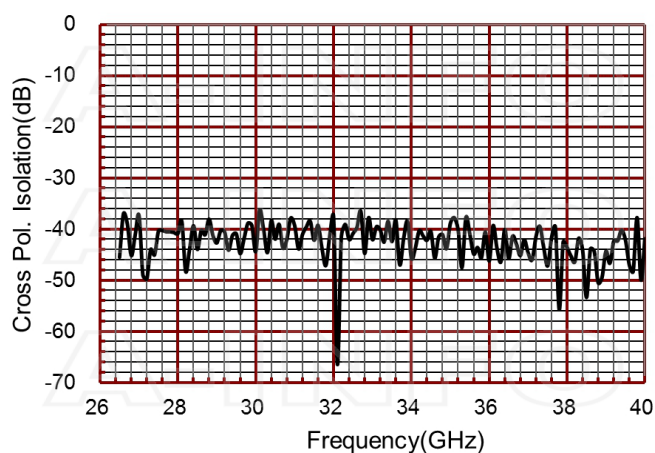




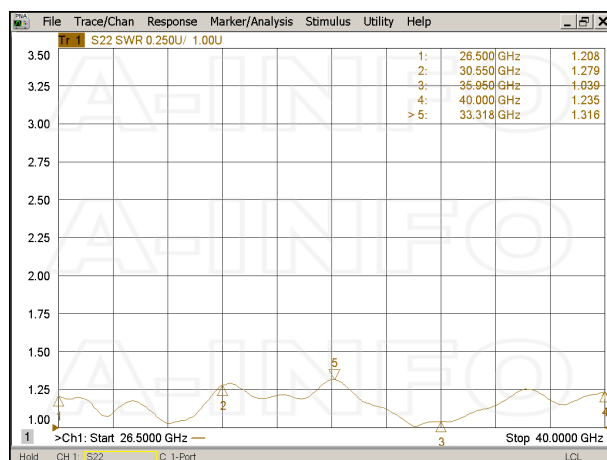
### Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
26.50	18.61	40.06		33.50	20.39	40.32
27.00	19.01	39.83		34.00	20.63	40.21
27.50	18.87	40.13		34.50	20.54	40.43
28.00	19.07	40.08		35.00	20.58	40.51
28.50	19.14	40.16		35.50	20.67	40.54
29.00	19.49	39.97		36.00	20.79	40.55
29.50	19.51	40.09		36.50	20.93	40.53
30.00	19.49	40.26		37.00	20.98	40.59
30.50	19.68	40.22		37.50	20.95	40.74
31.00	19.75	40.28		38.00	21.02	40.79
31.50	20.10	40.07		38.50	21.16	40.75
32.00	20.17	40.14		39.00	21.28	40.75
32.50	20.25	40.20		39.50	21.26	40.89
33.00	20.27	40.31		40.00	21.30	40.96

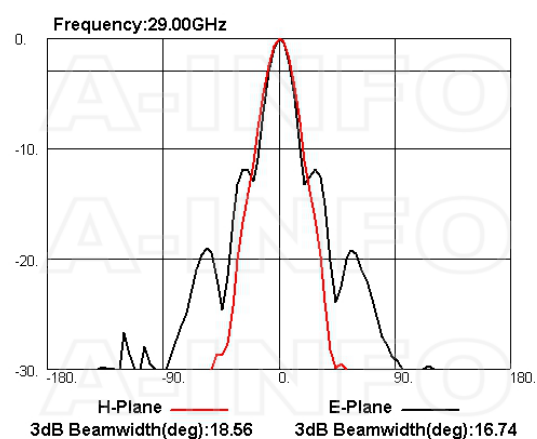
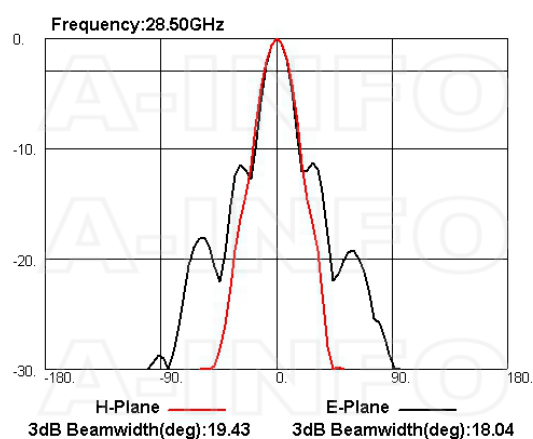
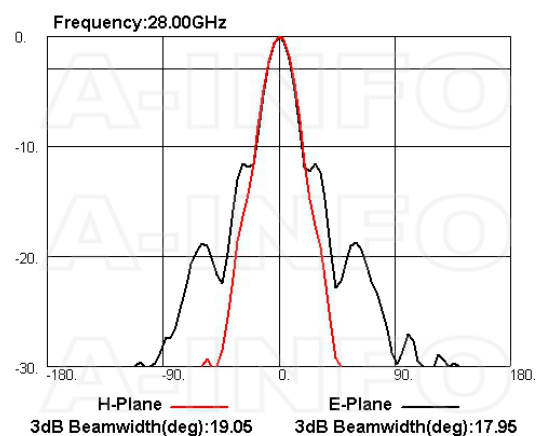
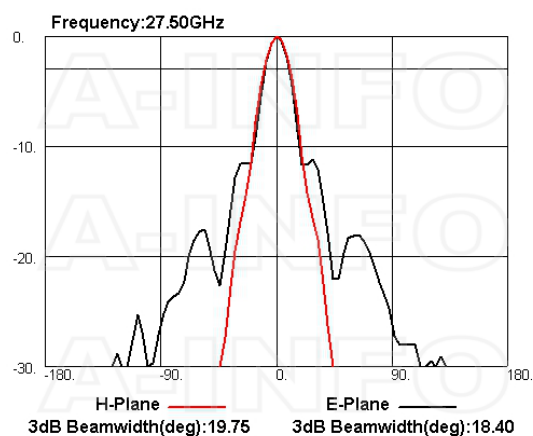
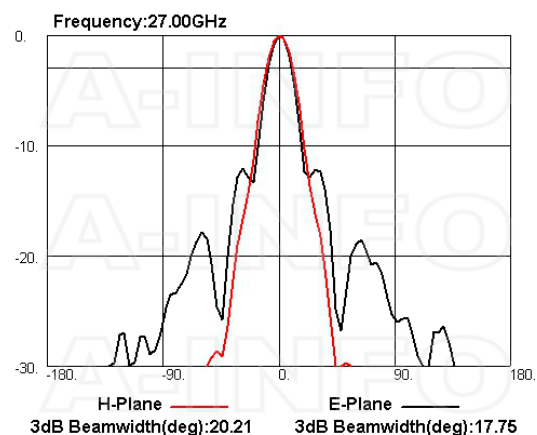
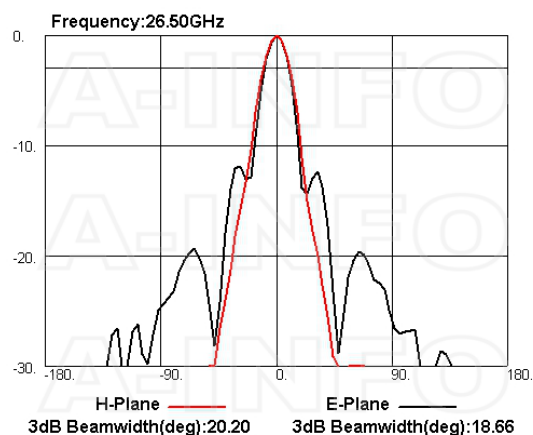
### Cross Polarization Isolation

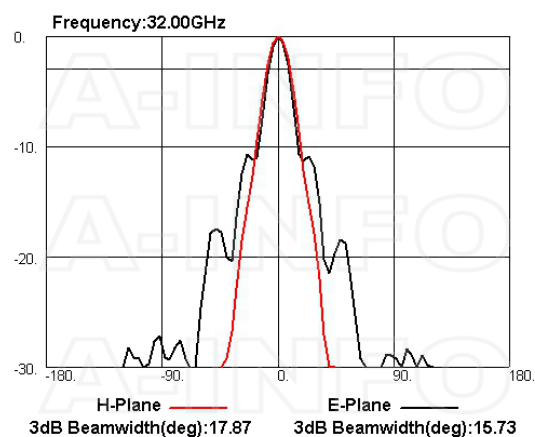
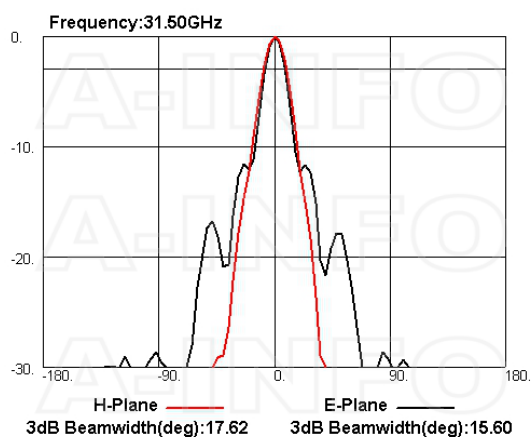
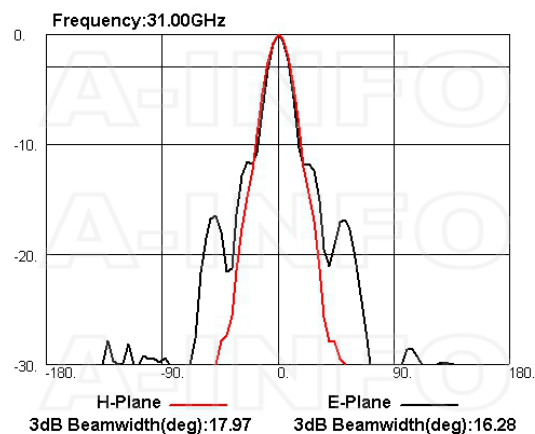
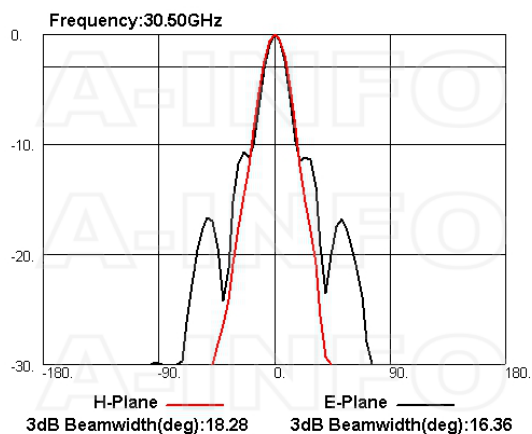
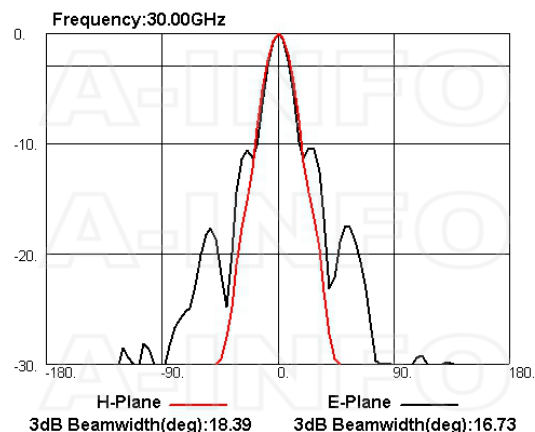
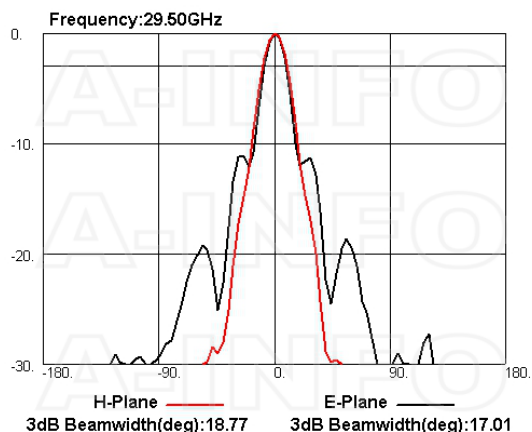


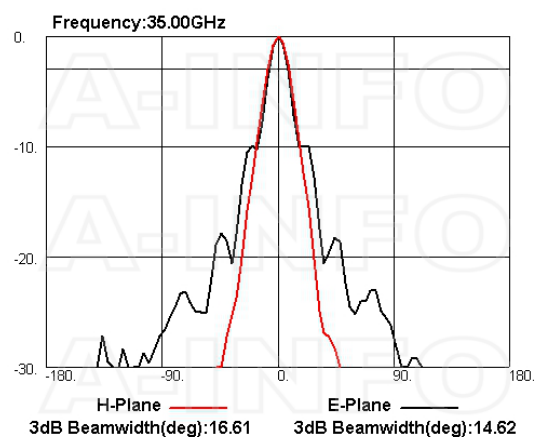
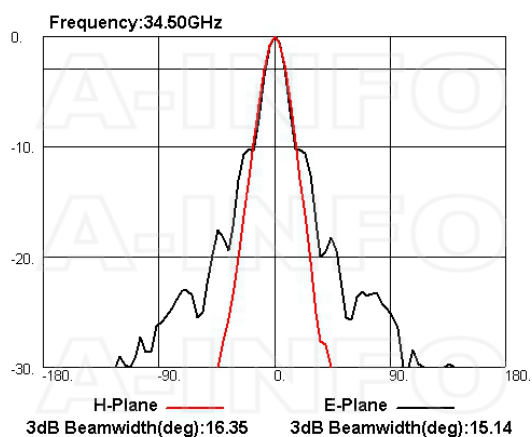
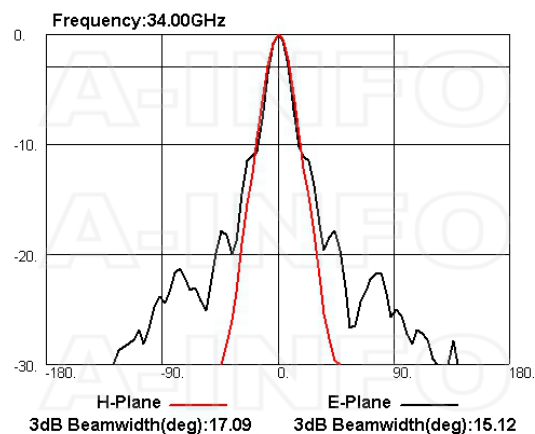
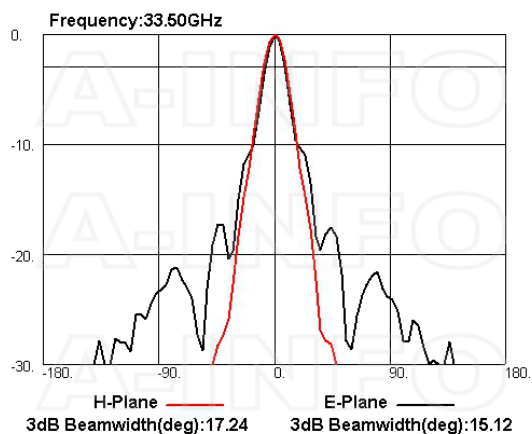
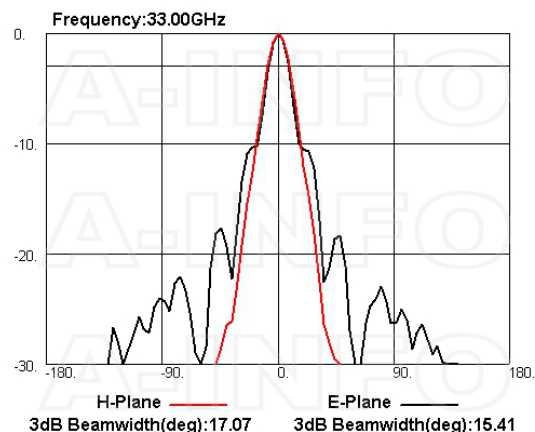
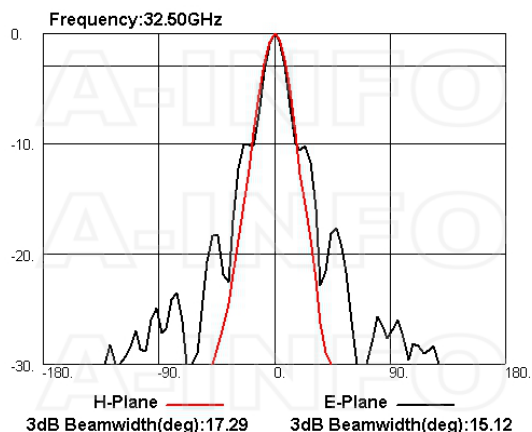
### VSWR

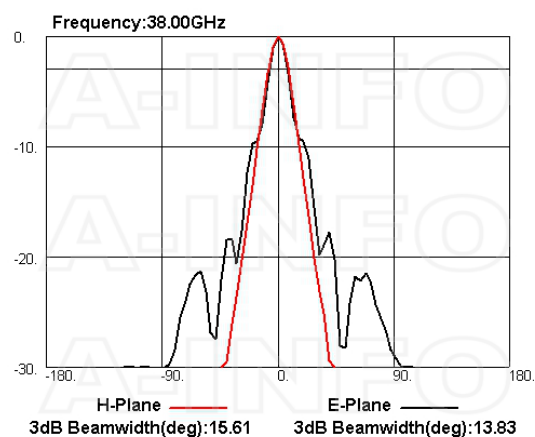
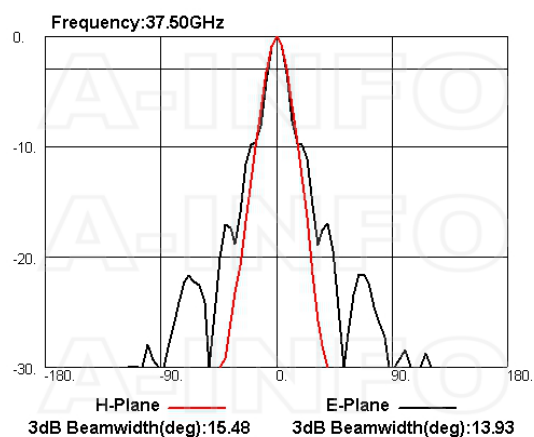
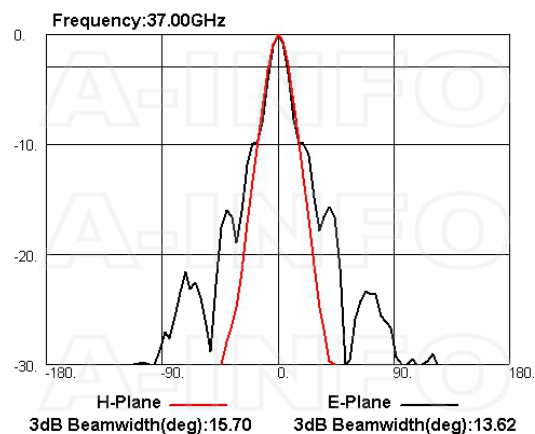
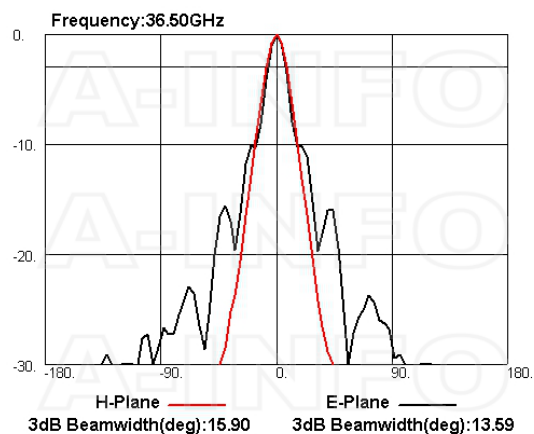
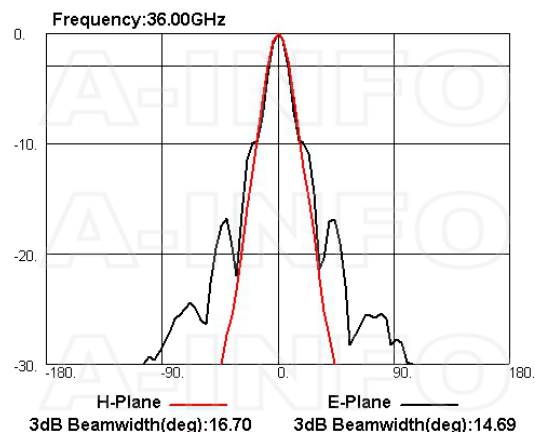
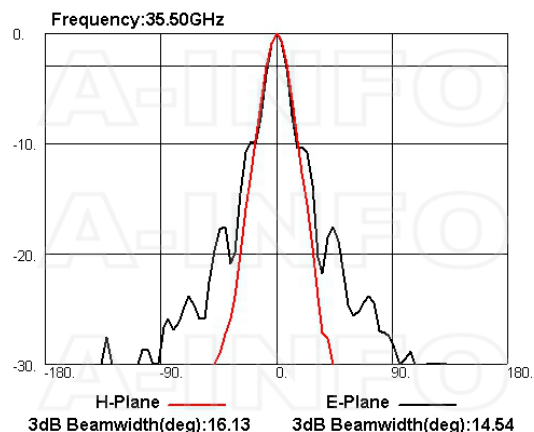


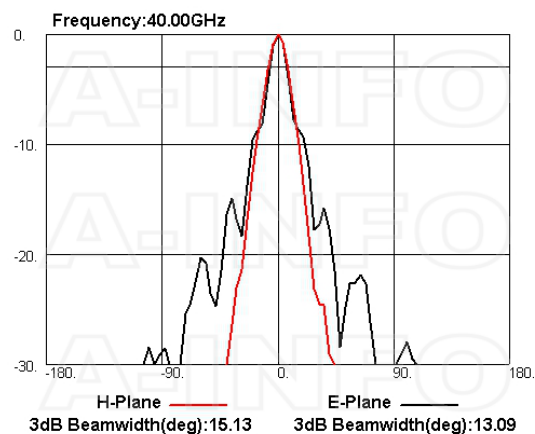
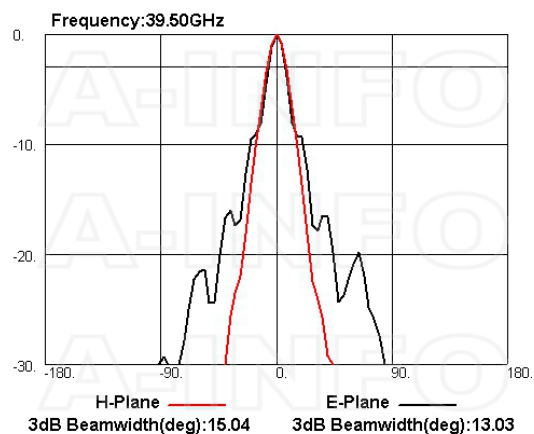
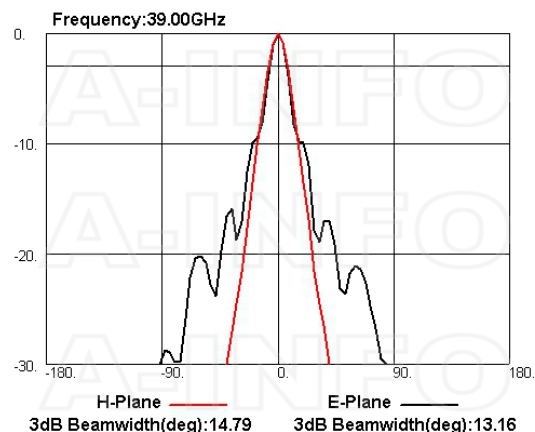
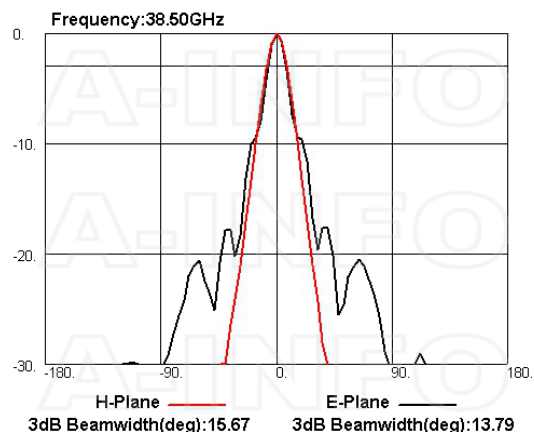
### Pattern











### 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  
Alloy Carrying Case



M3x12 Hex\_Pack WR28 Flange  
Assembly Pack



2.4M-2.4M-A050-500 Flexible  
Cable Assembly 500mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-1000 Flexible  
Cable Assembly 1000mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-1500 Flexible  
Cable Assembly 1500mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-2000 Flexible  
Cable Assembly 2000mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-3000 Flexible  
Cable Assembly 3000mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-5000 Flexible  
Cable Assembly 5000mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-A050-10000 Flexible  
Cable Assembly 10000mm DC-  
40GHz 2.4mm Male to 2.4mm  
Male



2.4M-2.4M-B020-300 Flexible  
Cable Assembly 300mm DC-  
50GHz 2.4mm Male to 2.4mm  
Male



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-2000 Flexible Cable Assembly 2000mm 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-5000 Flexible Cable Assembly 5000mm DC-50GHz 2.4mm Male to 2.4mm Female

### Similar Products



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



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

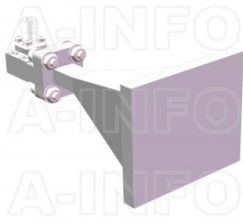


LB-28-20-C-KF Standard Gain Horn Antenna 26.5-40GHz 20dB Gain 2.92mm Female



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

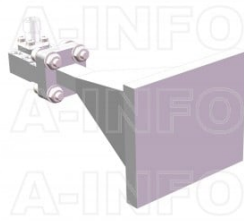




LB-28-20-C-KFSPO Standard Gain

Horn Antenna 26.5-40GHz 20dB

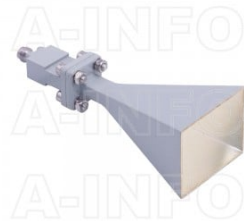
Gain 2.92mm Female



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

### About this Datasheet

<div> <div> <div>● Product Information</div> <div>Product Link:</div> <div> <a href="https://www.ainfoinc.com/lb-28-20-c-e2-4fspo-standard-gain-horn-antenna-26-5-40-ghz-20db-gain-endlaunch-2-4mm-female">https://www.ainfoinc.com/lb-28-20-c-e2-4fspo-standard-gain-horn-antenna-26-5-40-ghz-20db-gain-endlaunch-2-4mm-female</a> </div> <div>Data subject to change without notice.</div> <div>© A-INFO INC. 2023. All Rights Reserved</div> </div> </div>	<div> <div> <div>● Contact Us</div> <div>Address:dd</div> <div>60 Tesla, Irvine, CA 92618,</div> <div>USA</div> <div>Website:</div> <div>www.ainfoinc.com</div> <div>Email:</div> <div>sales@ainfoinc.com</div> </div> </div>	<div> <div> <div>● Phone &amp; Fax</div> <div>Phone:</div> <div>+1-949-639-9688</div> <div>+1-949-639-9608</div> <div>Fax:</div> <div>+1-949-639-9670</div> </div> </div>
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