



LB-225-7/16F Broadband Horn Antenna 0.2-2.5GHz 12dB Gain 7/16 DIN Female

Broadband Horn Antenna Operating From 0.2GHz to 2.5GHz With a Nominal 12dB Gain With 7/16 DIN Female Connector

### Product Information

SKU	LB-225-7/16F
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### Description

Broadband horn antenna LB-225-7/16F, operating from 0.2 to 2.5GHz with a nominal 12dB gain and low VSWR 2.0:1 with 7/16 DIN Female output connector. The model LB-225-7/16F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 800W continuously and 1600W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This broadband horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

### Technical Specification

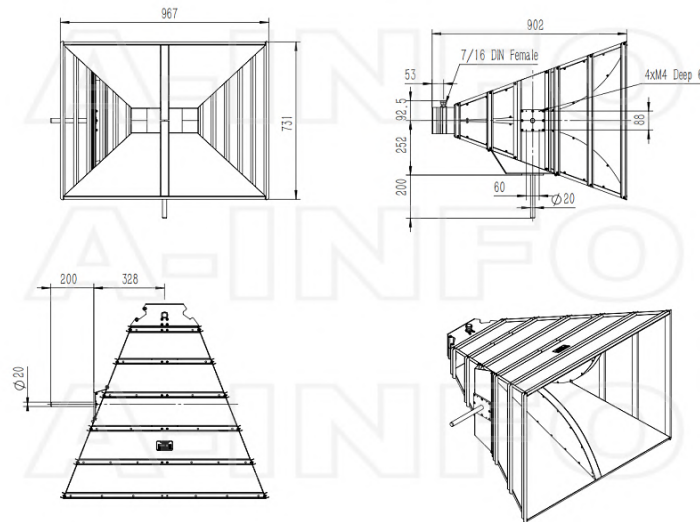
Electrical Specification		Interface	
Frequency, Min (GHz)	0.2	Output Type	Coaxial
Frequency, Max (GHz)	2.5	Connector	7/16 DIN
Gain, Typ (dBi)	12	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	33	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	104	Finish	Chemical Conversion Coating
3dB Beamwidth, H-Plane, Min (Deg.)	22	Size, W (mm)	967
3dB Beamwidth, H-Plane, Max (Deg.)	85	Size, H (mm)	731
Cross Pol. Isolation, Typ (dB)	25	Size, L (mm)	902
VSWR, Typ	2.0:1	Weight, (kg)	14.14
Impedance, (Ohm)	50		
Power Handling, CW, (W)	800		
Power Handling, Peak, (W)	1600		

## Additional Information

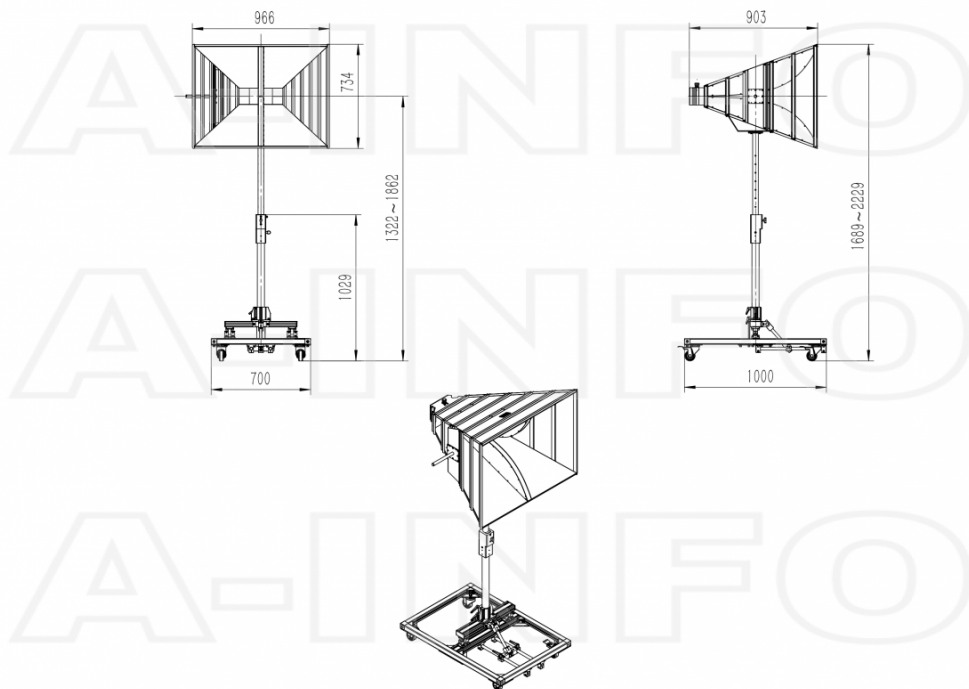
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
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## Outline Drawing

7/16 DIN Female Output (P/N: LB-225-7/16F)



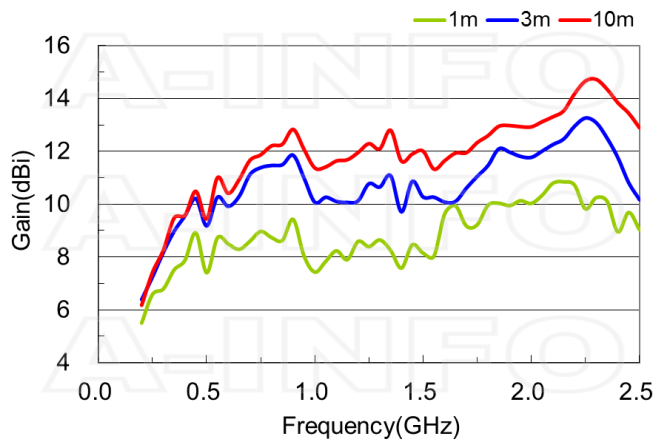
7/16 DIN-Female Output with Tripod (Option, P/N: LB-225\_Tripod)



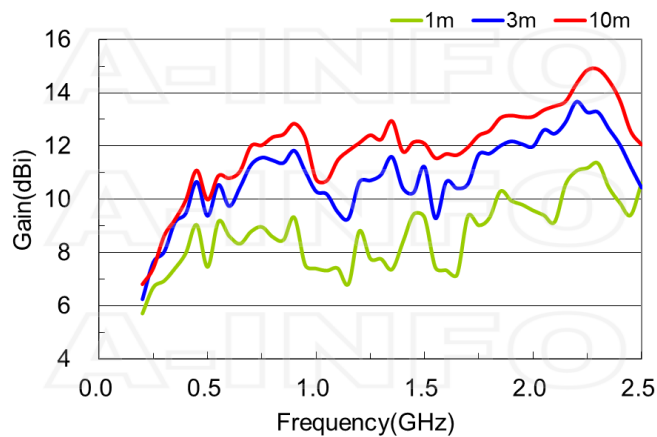
## Typical Test Results

### Gain

Horizontal Polarization

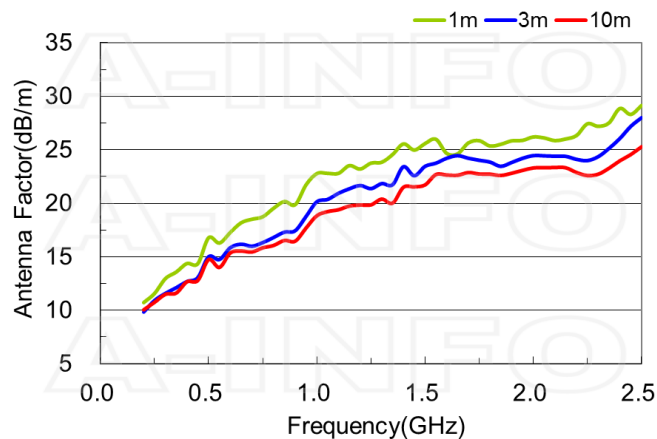


Vertical Polarization

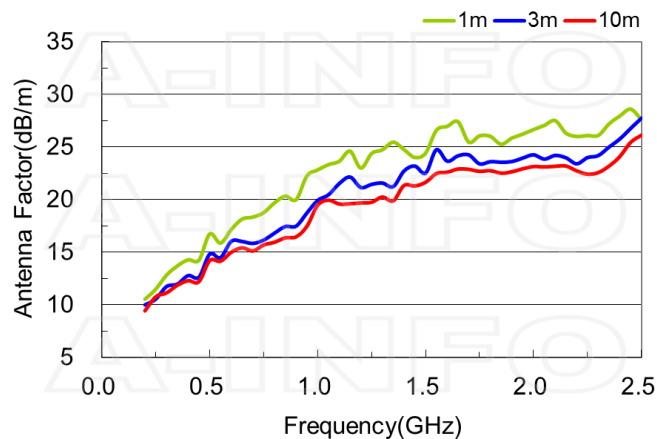


Antenna Factor

Horizontal Polarization



Vertical Polarization



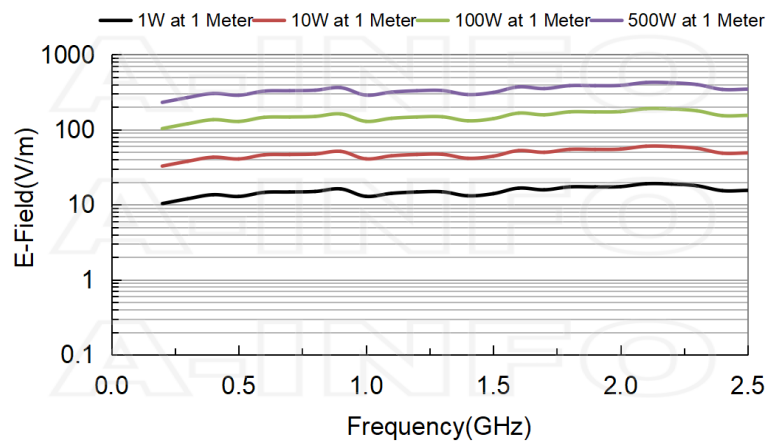
## Antenna Factor (Table)

Frequency(GHz)	Vertical Polarization					
	1m		3m		10m	
	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)
0.2	5.71	10.52	6.24	9.99	6.81	9.42
0.3	6.94	12.82	8.02	11.73	8.62	11.13
0.4	7.98	14.27	9.48	12.77	9.97	12.28
0.5	7.46	16.73	9.38	14.81	9.99	14.20
0.6	8.62	17.16	9.74	16.03	10.79	14.98
0.7	8.78	18.33	11.28	15.83	12.00	15.11
0.8	8.59	19.68	11.46	16.81	12.33	15.94
0.9	9.32	19.98	11.83	17.47	12.84	16.45
1.0	7.40	22.81	10.30	19.91	10.76	19.45
1.5	9.32	24.41	11.22	22.52	12.09	21.64
2.0	9.58	26.65	11.98	24.25	13.10	23.13
2.5	10.60	27.57	10.44	27.73	12.05	26.12

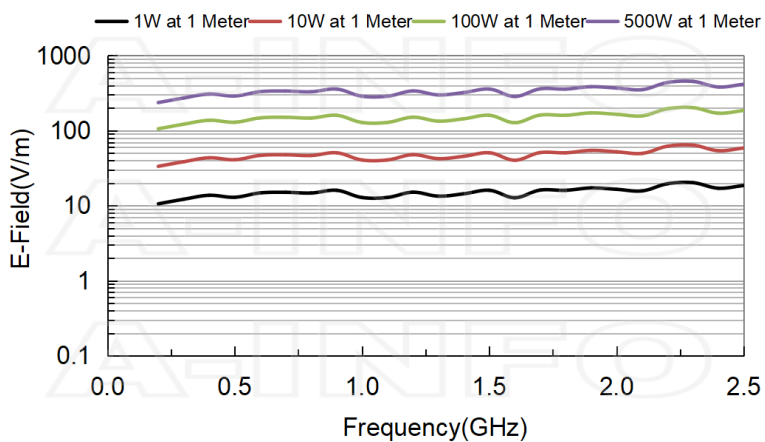
Frequency(GHz)	Horizontal Polarization					
	1m		3m		10m	
	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)
0.2	5.50	10.73	6.39	9.84	6.18	10.05
0.3	6.79	12.96	8.17	11.58	8.26	11.49
0.4	7.88	14.37	9.56	12.69	9.58	12.67
0.5	7.41	16.78	9.18	15.01	9.44	14.74
0.6	8.50	17.28	9.92	15.85	10.41	15.36
0.7	8.60	18.51	11.12	15.99	11.66	15.45
0.8	8.74	19.53	11.46	16.81	12.21	16.06
0.9	9.42	19.87	11.85	17.44	12.83	16.46
1.0	7.43	22.78	10.07	20.14	11.37	18.84
1.5	8.15	25.58	10.27	23.46	12.01	21.72
2.0	10.03	26.20	11.77	24.46	12.92	23.31
2.5	9.03	29.14	10.17	28.00	12.89	25.28

## Field Strength

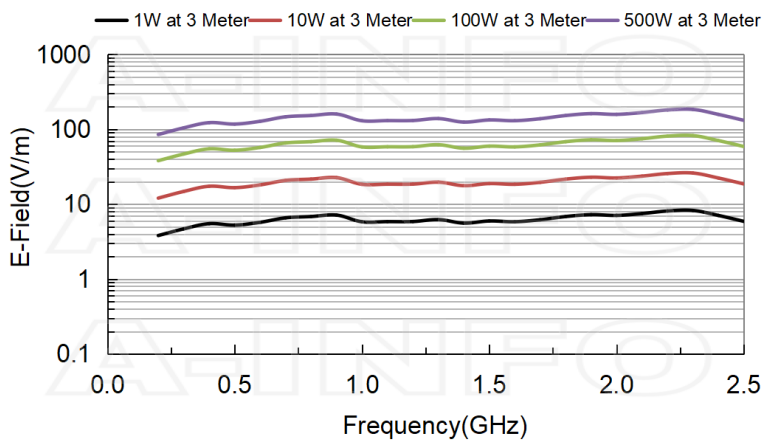
Horizontal Polarization



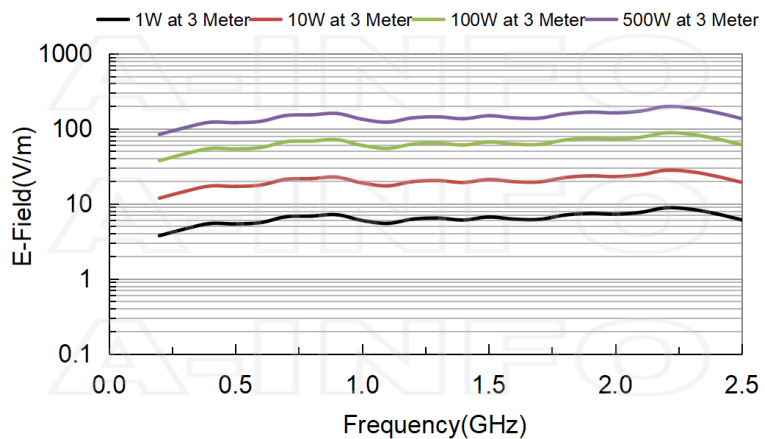
Vertical Polarization



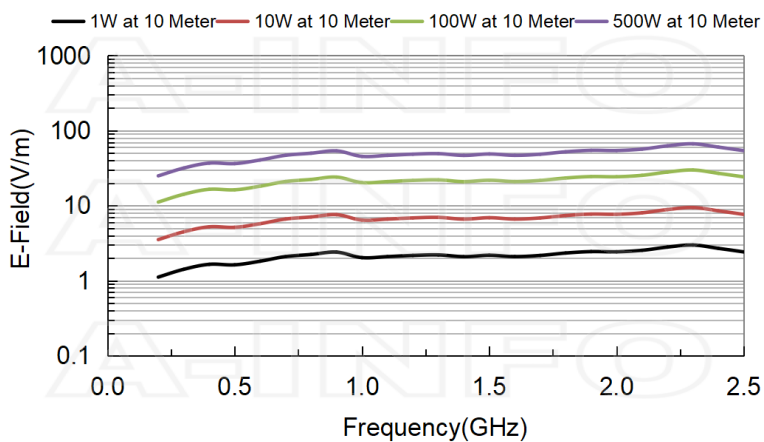
Horizontal Polarization



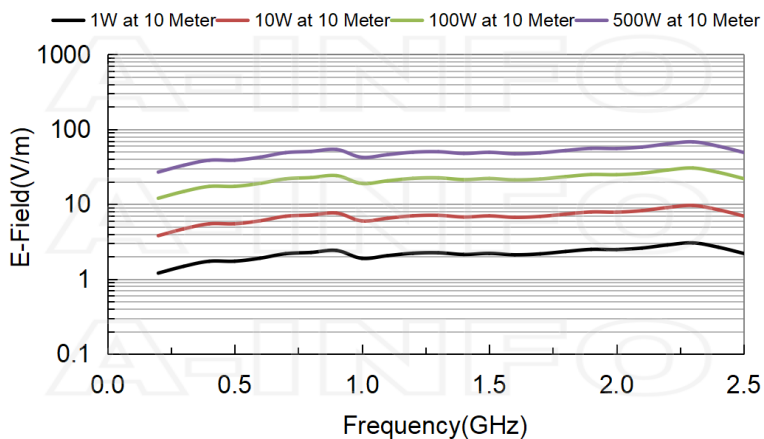
Vertical Polarization



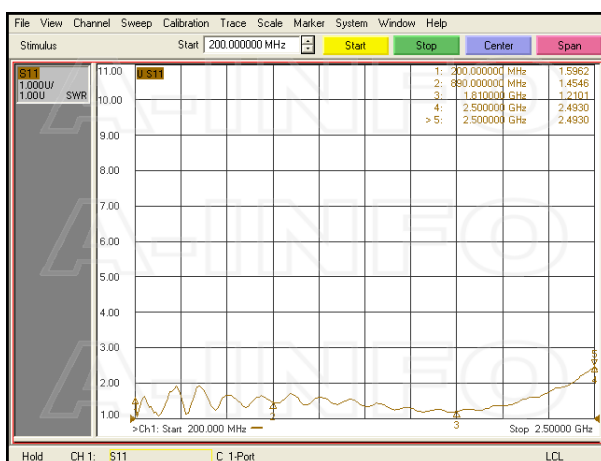
### Horizontal Polarization



### Vertical Polarization

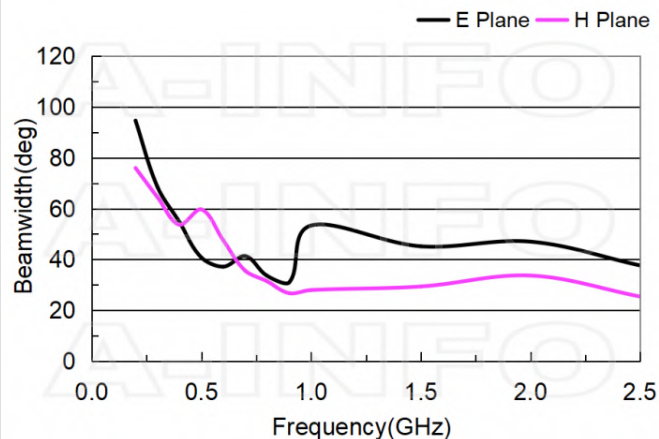


### VSWR

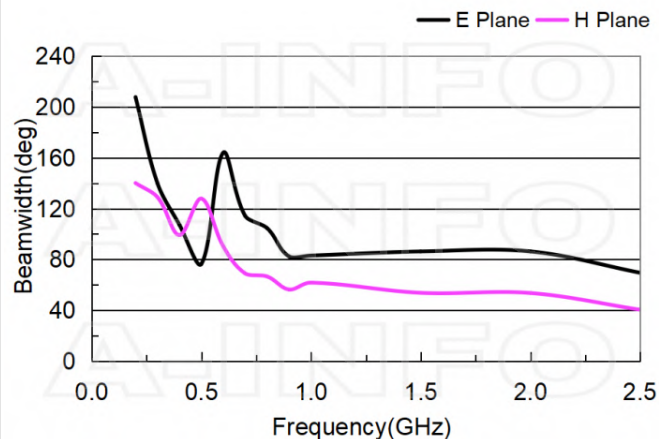


## Beamwidth

3dB Beamwidth

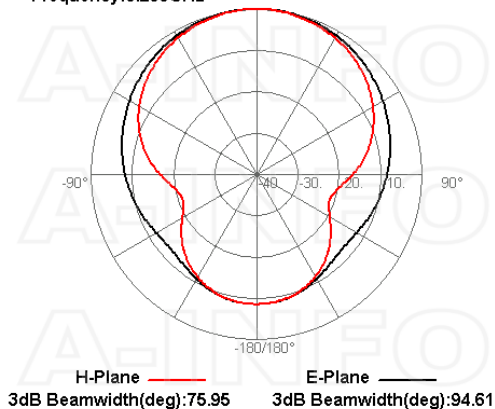


10dB Beamwidth

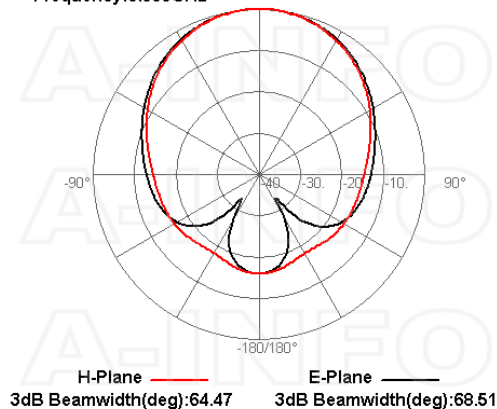


## Pattern

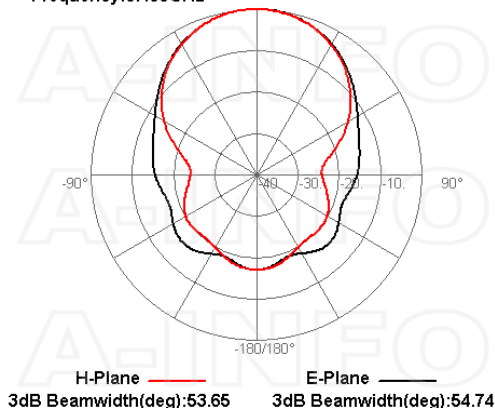
Frequency:0.200GHz



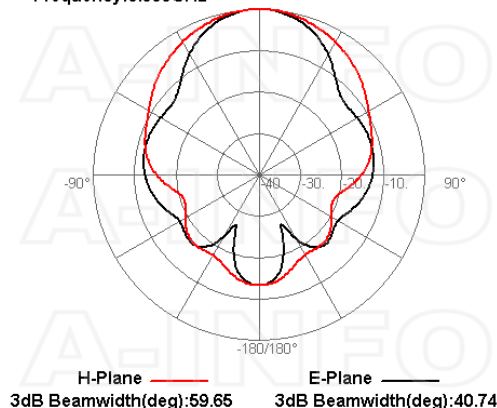
Frequency:0.300GHz



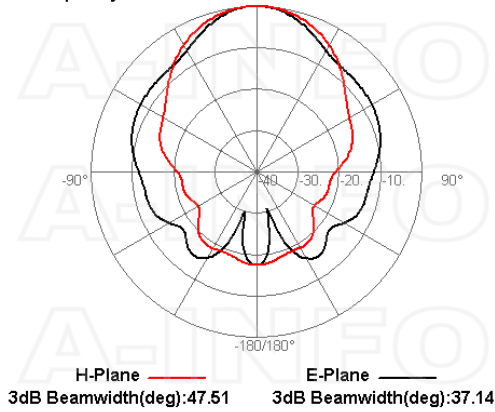
Frequency:0.400GHz



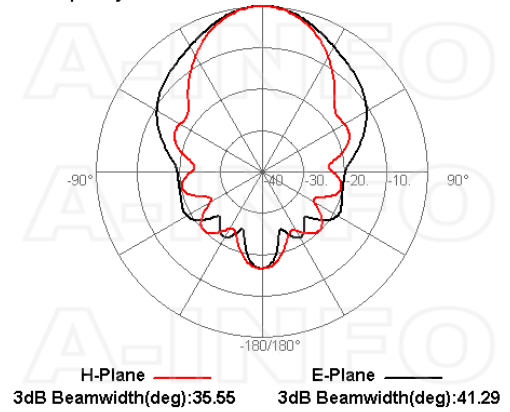
Frequency:0.500GHz



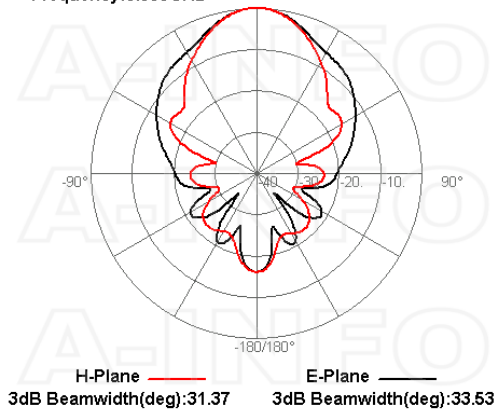
Frequency:0.600GHz



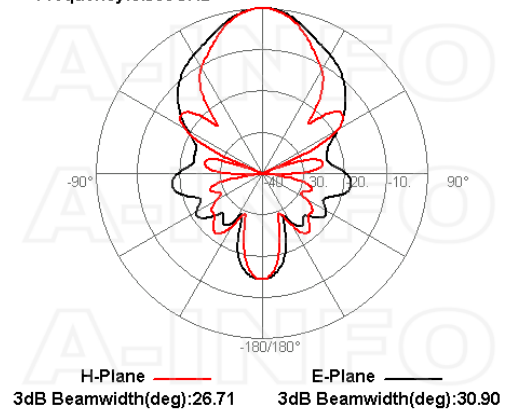
Frequency:0.700GHz



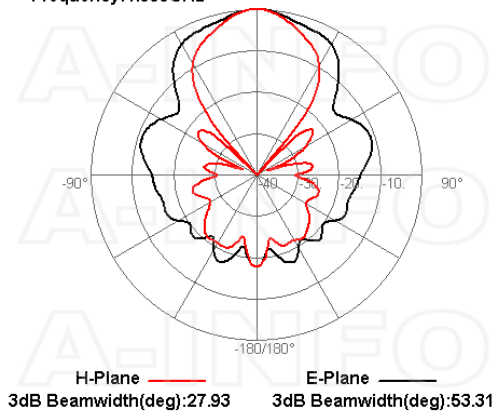
Frequency:0.800GHz



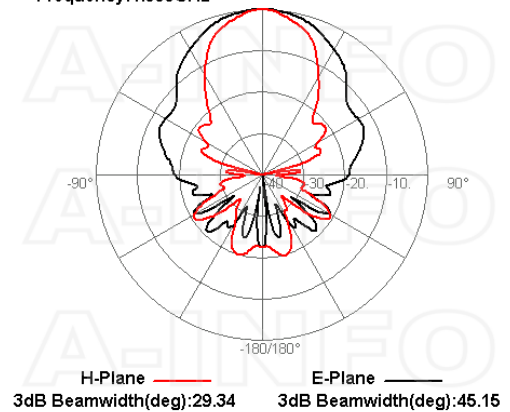
Frequency:0.900GHz

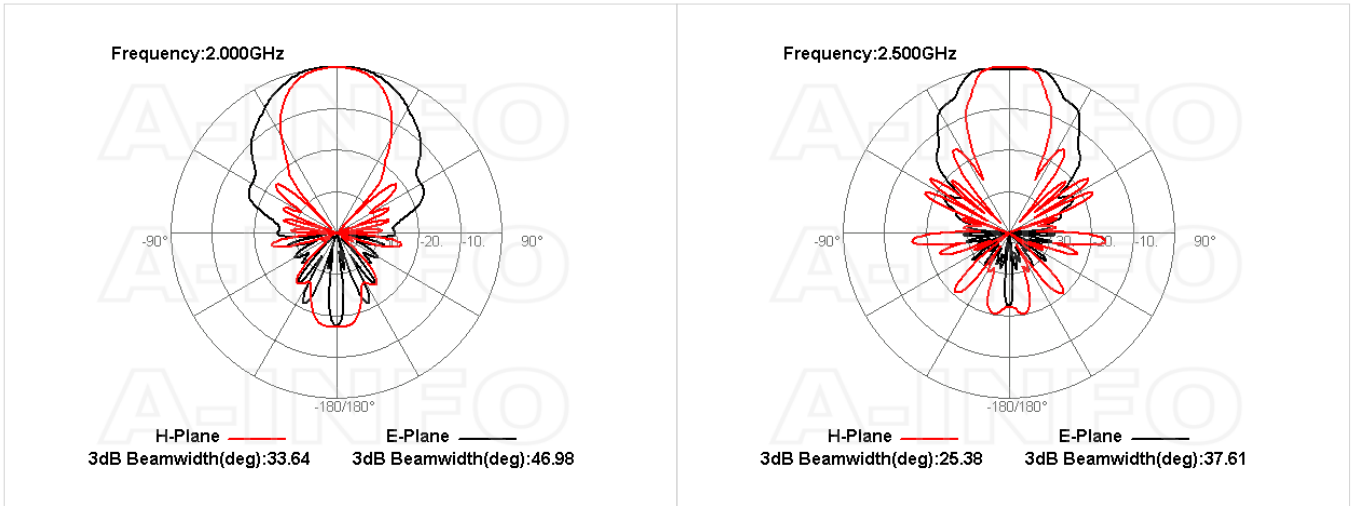


Frequency:1.000GHz



Frequency:1.500GHz





## Related Products



LB-225\_Tripod AI Alloy Tripod

## Similar Products



LB-225-NF Broadband Horn  
Antenna 0.2-2.5GHz 12dB Gain N  
Type Female



LB-460-NF Broadband Horn  
Antenna 0.4-6.0 GHz 10dB Gain N  
Type Female



LB-460-NFSPO Broadband Horn  
Antenna 0.4-6GHz 10dB Gain 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-225-7-16f-broadband-horn-antenna-0-2-2-5-ghz-12db-gain-7-16-din-female">https://www.ainfoinc.com/lb-225-7-16f-broadband-horn-antenna-0-2-2-5-ghz-12db-gain-7-16-din-female</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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