



**LB-880-NF Broadband Horn Antenna 0.8-8.0 GHz 10dB Gain N Type Female**

Broadband Horn Antenna Operating From 0.8 GHz to 8.0 GHz With a Nominal 10 dB Gain With N Type Female Connector

### Product Information

SKU	LB-880-NF
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### Description

Broadband horn antenna LB-880-NF, operating from 0.8 to 8 GHz with a nominal 10dB gain and low VSWR 1.5:1 with N type Female input connector. The model LB-880-NF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 300 W continuously and 500 W 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

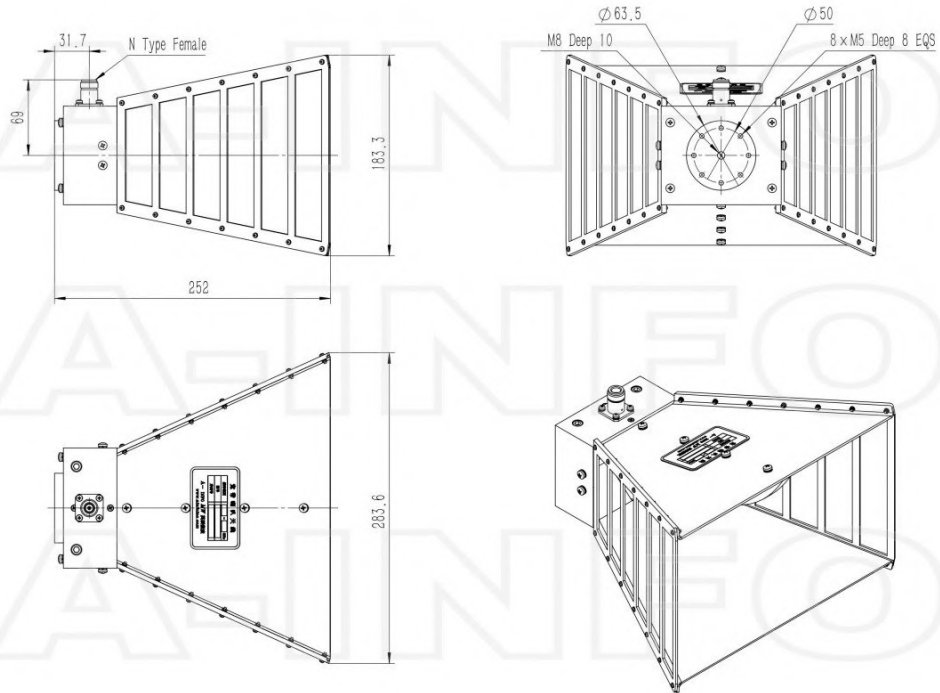
Electrical Specification		Interface	
Frequency, Min (GHz)	0.8	Output Type	Coaxial
Frequency, Max (GHz)	8	Connector	N Type
Gain, Typ (dBi)	10	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	26	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	110	Finish	Chemical Conversion Coating and Sand Blasting
3dB Beamwidth, H-Plane, Min (Deg.)	24	Size, W (mm)	284
3dB Beamwidth, H-Plane, Max (Deg.)	67	Size, H (mm)	183
Cross Pol. Isolation, Typ (dB)	30	Size, L (mm)	252
VSWR, Typ	1.5:1	Weight, (kg)	2.1
Impedance, (Ohm)	50		
Power Handling, CW, (W)	300		
Power Handling, Peak, (W)	500		

## Additional Information

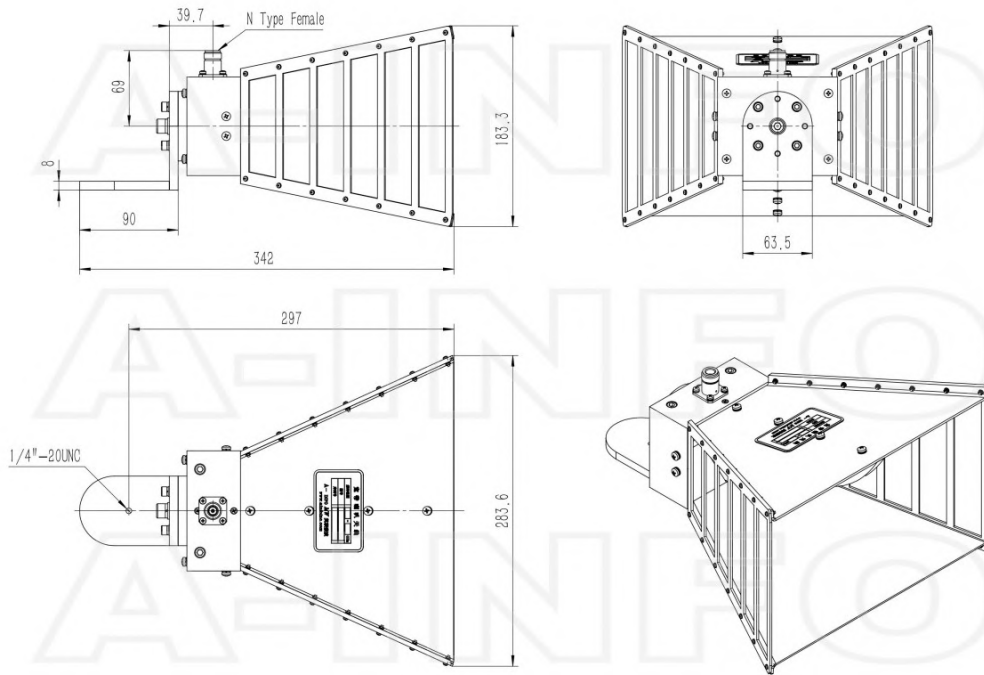
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
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## Outline Drawing

N-Female Output (P/N: LB-880-NF)

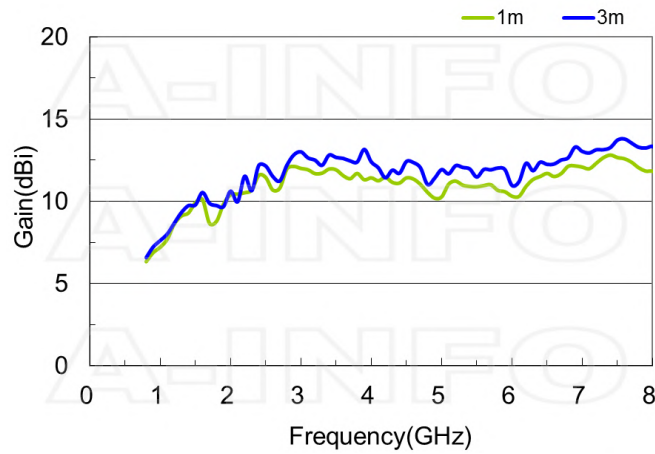


N-Female Output with L Type Mounting Bracket (Option, P/N: LB-10180-L)

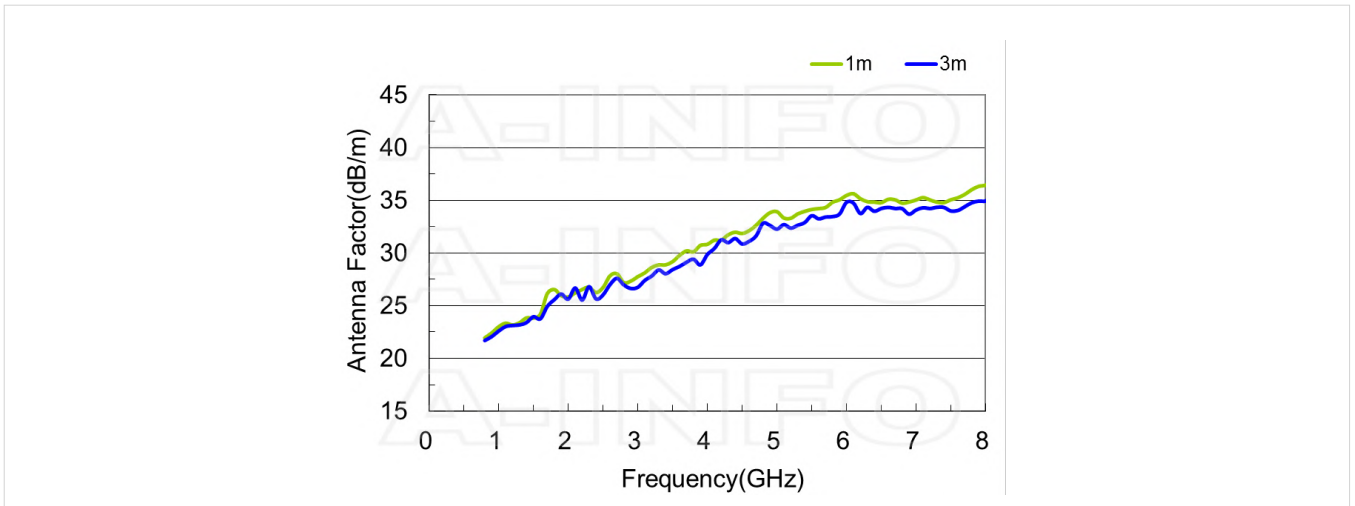


## Typical Test Results

Gain



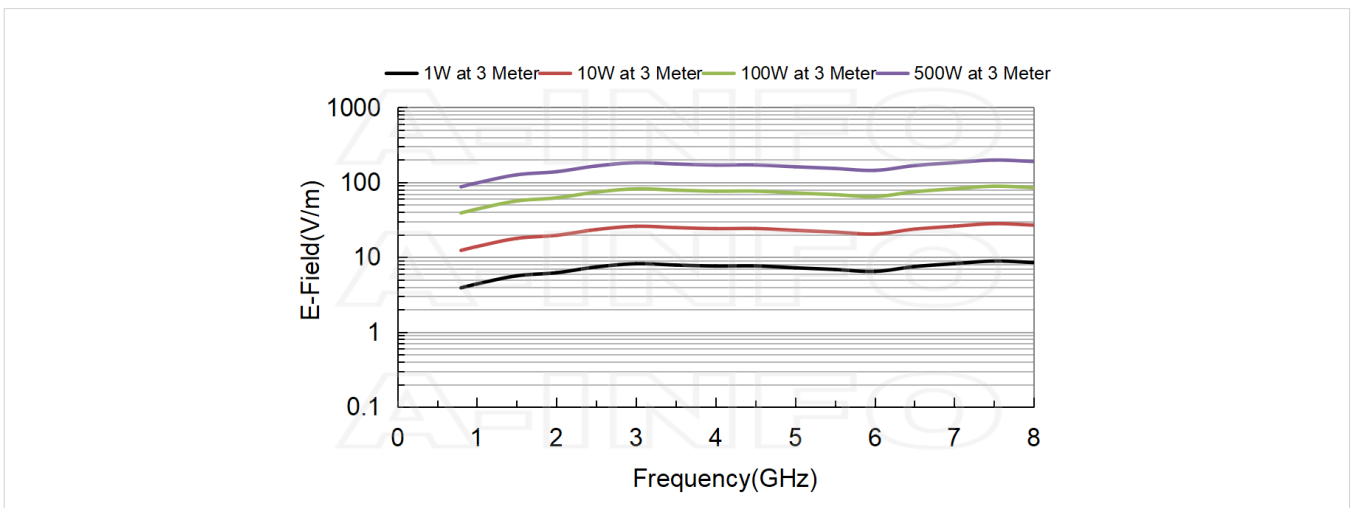
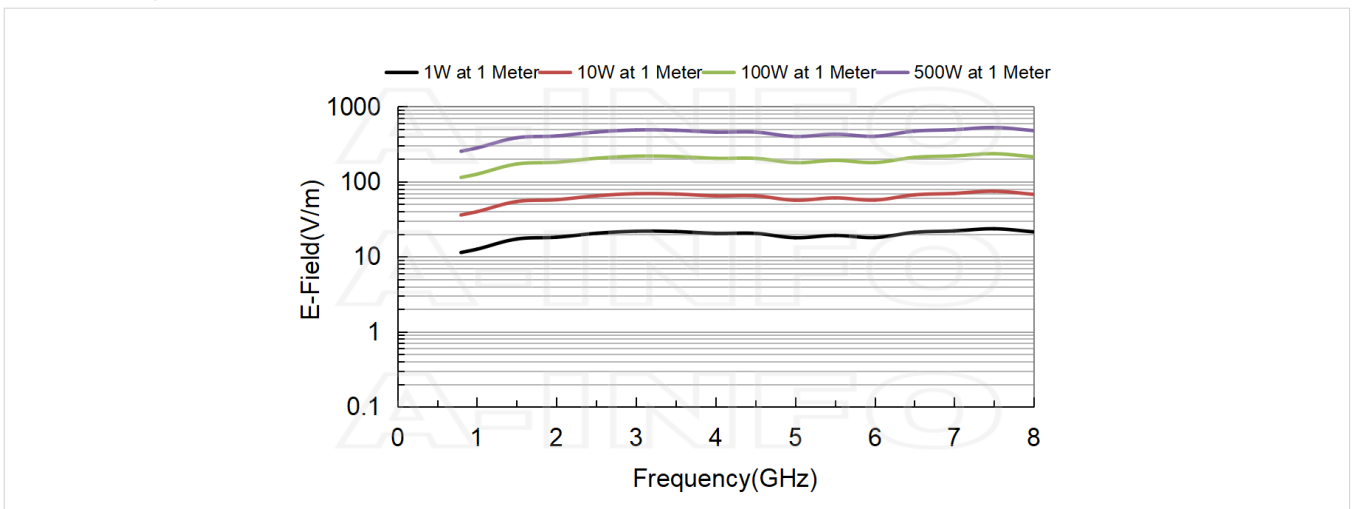
## Antenna Factor



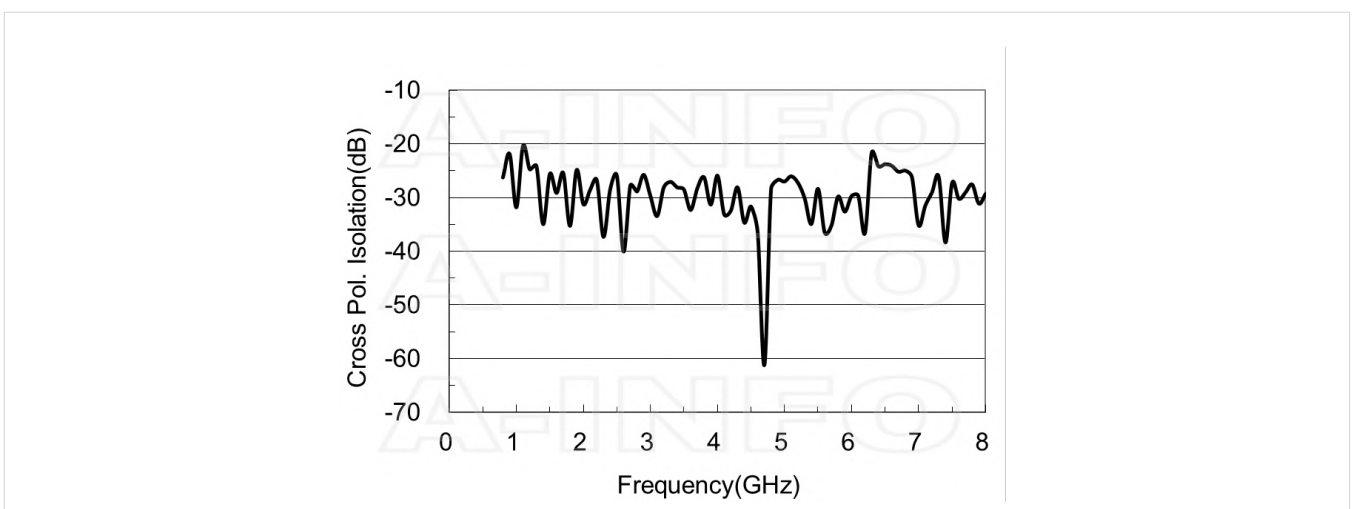
## Antenna Factor (Table)

Frequency(GHz)	1m		3m	
	Gain(dBi )	AF(dB/m)	Gain(dBi )	AF(dB/m)
0.8	6.33	21.94	6.58	21.69
0.9	6.88	22.41	7.23	22.06
1.0	7.21	23.00	7.62	22.59
1.5	9.92	23.82	9.78	23.95
2.0	10.40	25.83	10.62	25.62
2.5	11.45	26.72	12.15	26.02
3.0	12.00	27.75	13.01	26.74
3.5	11.91	29.18	12.67	28.42
4.0	11.43	30.82	12.40	29.85
4.5	11.42	31.85	12.42	30.85
5.0	10.27	33.92	11.93	32.26
5.5	10.89	34.13	11.48	33.54
6.0	10.31	35.46	10.97	34.81
6.5	11.70	34.77	12.24	34.22
7.0	12.08	35.03	13.03	34.08
7.5	12.66	35.05	13.72	33.99
8.0	11.83	36.44	13.34	34.93

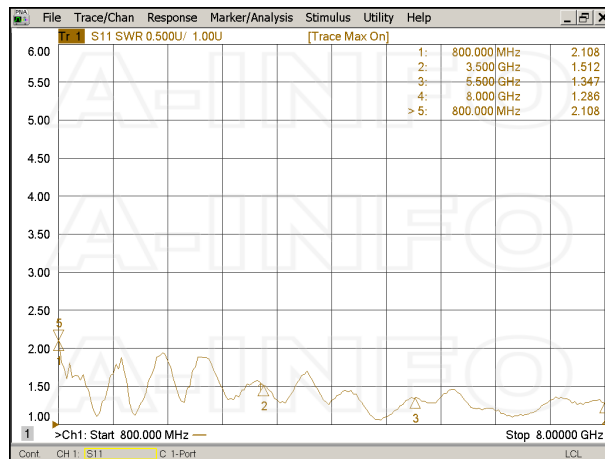
## Field Strength



## Cross Polarization Isolation

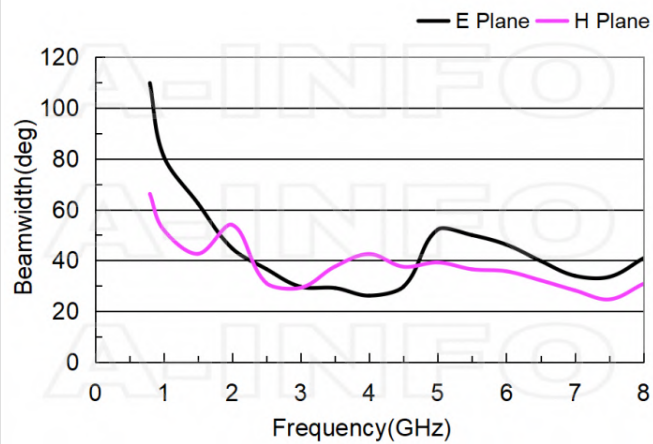


## VSWR

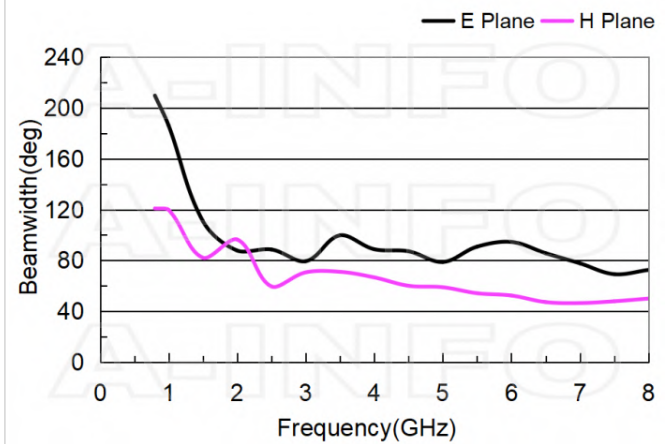


## Beamwidth

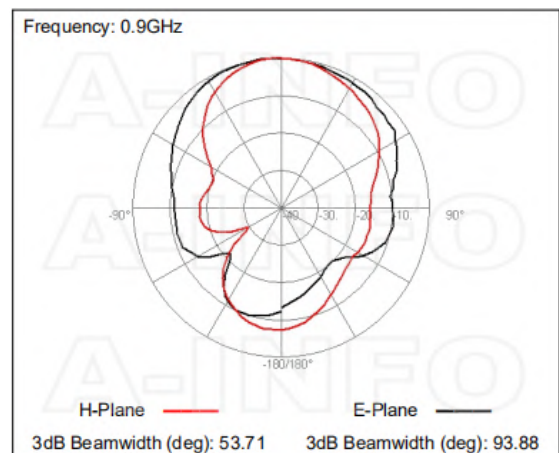
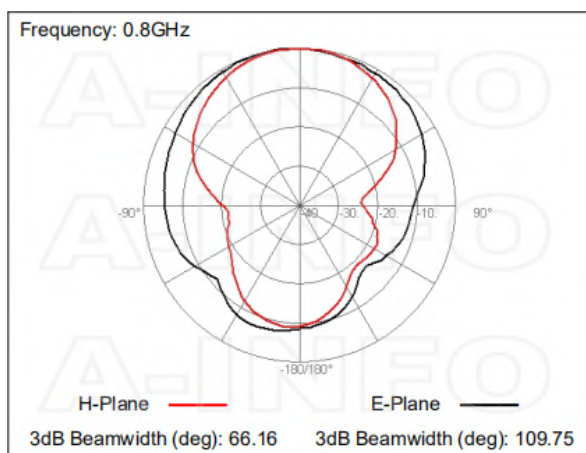
3dB Beamwidth

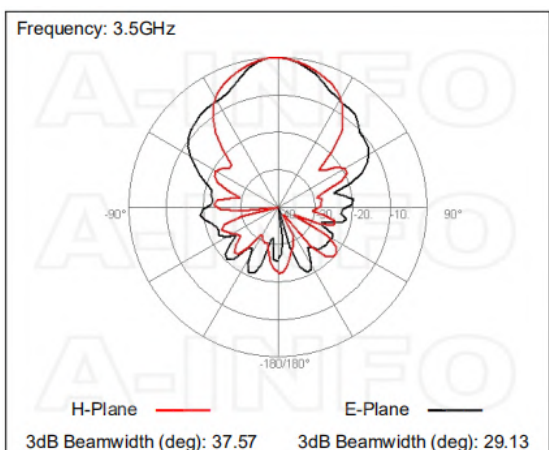
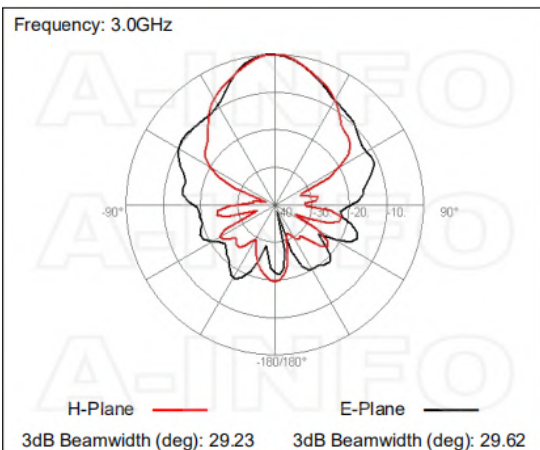
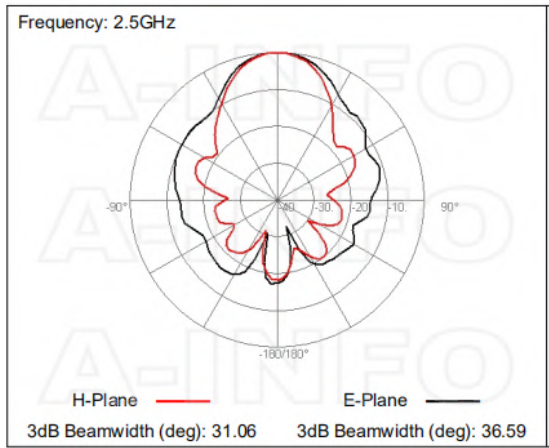
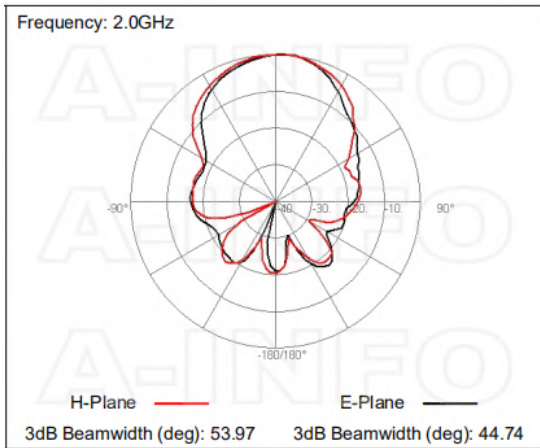
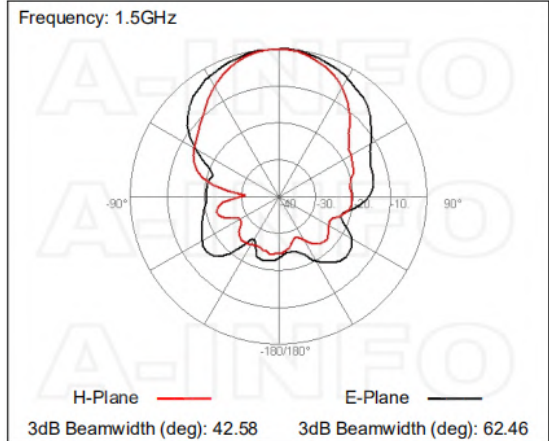
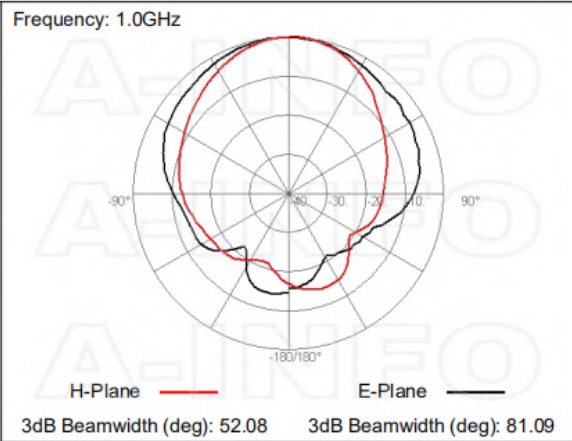


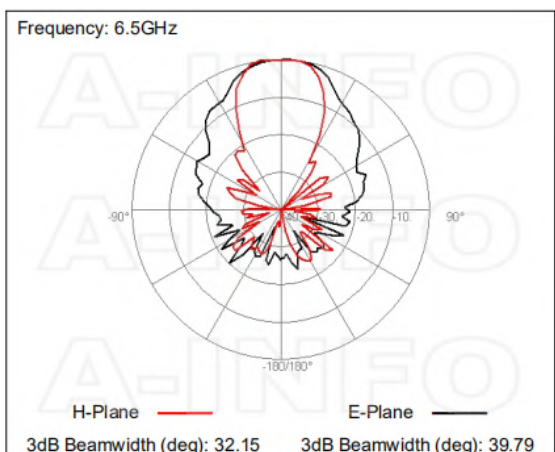
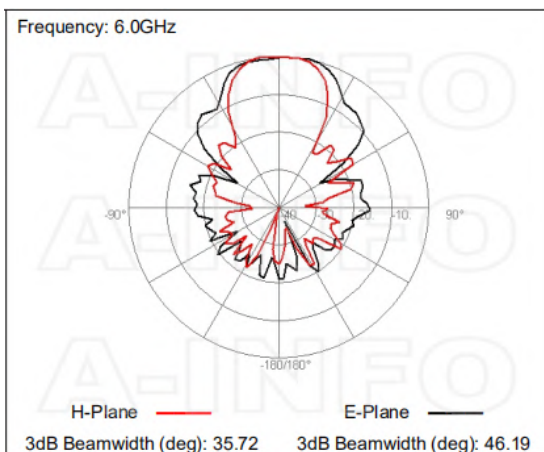
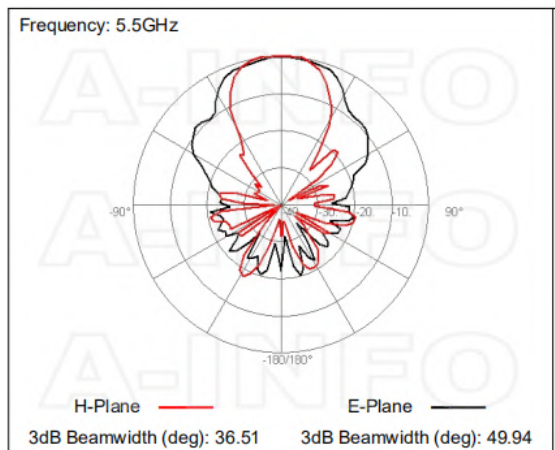
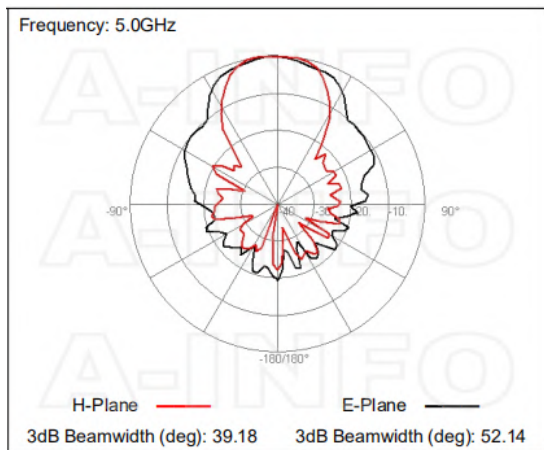
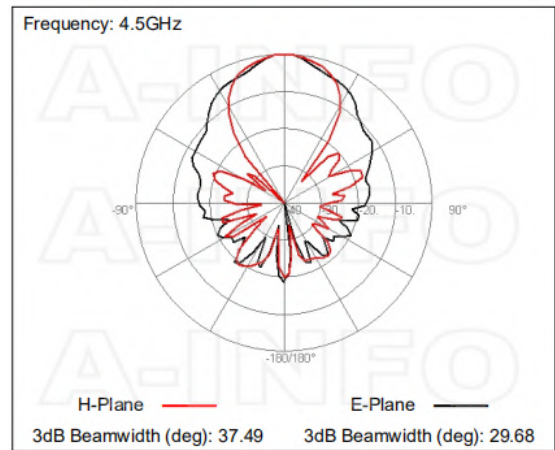
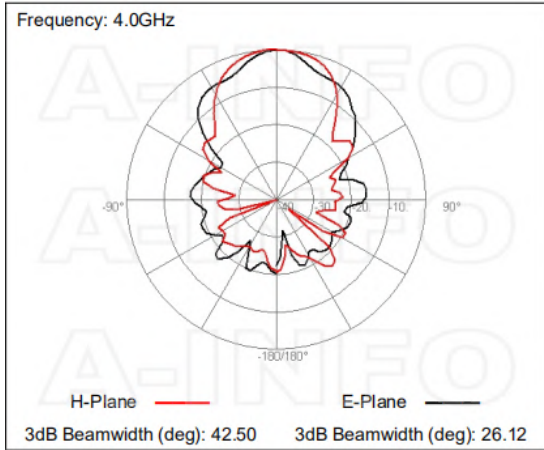
10dB Beamwidth

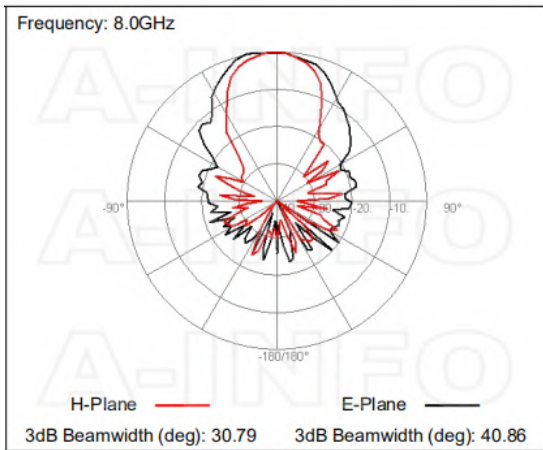
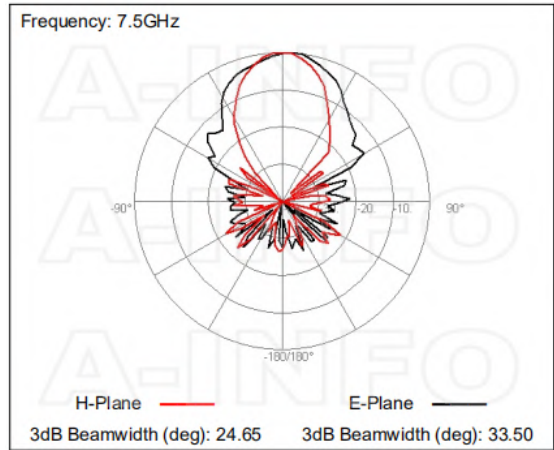
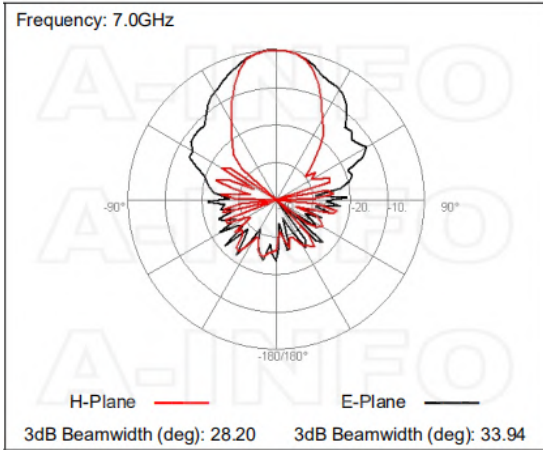


## Pattern









## Related Products



LB-10180-L L type mounting bracket



LB-10180-MA Stinger Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod  
Metalfree



Carrying Case\_LB-880 Al Alloy  
Carrying Case



NM-NM-A050-1000 Flexible  
Cable Assembly 1000mm DC-  
18GHz N Male to N Male



NM-NM-A050-1500 Flexible  
Cable Assembly 1500mm DC-  
18GHz N Male to N Male



NM-NM-A050-2000 Flexible  
Cable Assembly 2000mm DC-  
18GHz N Male to N Male



NM-NM-A050-3000 Flexible  
Cable Assembly 3000mm DC-  
18GHz N Male to N Male



NM-NM-A050-5000 Flexible  
Cable Assembly 5000mm DC-  
18GHz N Male to N Male



NM-NM-A050-10000 Flexible  
Cable Assembly 10000mm DC-  
18GHz N Male to N Male



NM-NM-A050-20000 Flexible  
Cable Assembly 20000mm DC-  
18GHz N Male to N Male



NM-NM-A100-500 Flexible Cable  
Assembly 500mm DC- 18GHz N  
Male to N Male



NM-NM-A100-1000 Flexible  
Cable Assembly 1000mm DC-  
18GHz N Male to N Male



NM-NM-A100-1500 Flexible  
Cable Assembly 1500mm DC-  
18GHz N Male to N Male



NM-NM-A100-2000 Flexible  
Cable Assembly 2000mm DC-  
18GHz N Male to N Male



NM-NM-A100-3000 Flexible  
Cable Assembly 3000mm DC-  
18GHz N Male to N Male



NM-NM-A100-5000 Flexible  
Cable Assembly 5000mm DC-  
18GHz N Male to N Male



NM-NM-A100-10000 Flexible  
Cable Assembly 10000mm DC-  
18GHz N Male to N Male



NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

## Similar Products



LB-780-NF Broadband Horn Antenna 0.7-8GHz 10dB Gain N Type Female



LB-780-NFSPO Broadband Horn Antenna 0.7-8GHz 10dB Gain N Type Female



LB-780-SF Broadband Horn Antenna 0.7-8GHz 10dB Gain SMA Female



LB-780-SFSPO Broadband Horn Antenna 0.7-8GHz 10dB Gain SMA Female



LB-880-NFSPO Broadband Horn Antenna 0.8-8GHz 10dB Gain N Type Female



LB-880-NFSPS Broadband Horn Antenna 0.8-8GHz 10dB Gain N Type Female



LB-880-SF Broadband Horn Antenna 0.8-8.0 GHz 10dB Gain SMA Female



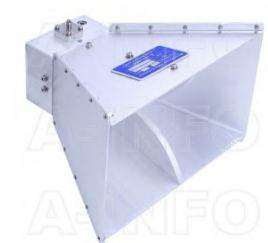
LB-880-SFSPO Broadband Horn Antenna 0.8-8GHz 10dB Gain SMA Female



LB-1080-NF Broadband Horn Antenna 1-8GHz 11dB Gain N Type Female



LB-1080-NFSPO Broadband Horn Antenna 1-8GHz 11dB Gain N Type Female



LB-1080-SF Broadband Horn Antenna 1-8GHz 11dB Gain SMA Female



LB-1080-SFSPO Broadband Horn Antenna 1-8GHz 11dB Gain SMA Female



LB-1080-M-NF Broadband Horn  
Antenna 1-8GHz 10dB Gain N  
Type Female



LB-1080-M-SF Broadband Horn  
Antenna 1-8GHz 10dB Gain SMA  
Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b> Product Link: <a href="https://www.ainfoinc.com/lb-880-nf-broadband-horn-antenna-0-8-8-0-ghz-10db-gain-n-type-female">https://www.ainfoinc.com/lb-880-nf-broadband-horn-antenna-0-8-8-0-ghz-10db-gain-n-type-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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