



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

Broadband Horn Antenna Operating From 0.4GHz to 6.0GHz With a Nominal 10 dB Gain With N Type Female Connector

## Product Information

SKU	LB-460-NF	Patents	ZL201630454765.2 (China)
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## Description

Broadband horn antenna LB-460-NF, operating from 0.4 to 6GHz with a nominal 10dB gain and low VSWR 1.5:1 with N Type Female output connector. The model LB-460-NF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 500W continuously and 800W 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

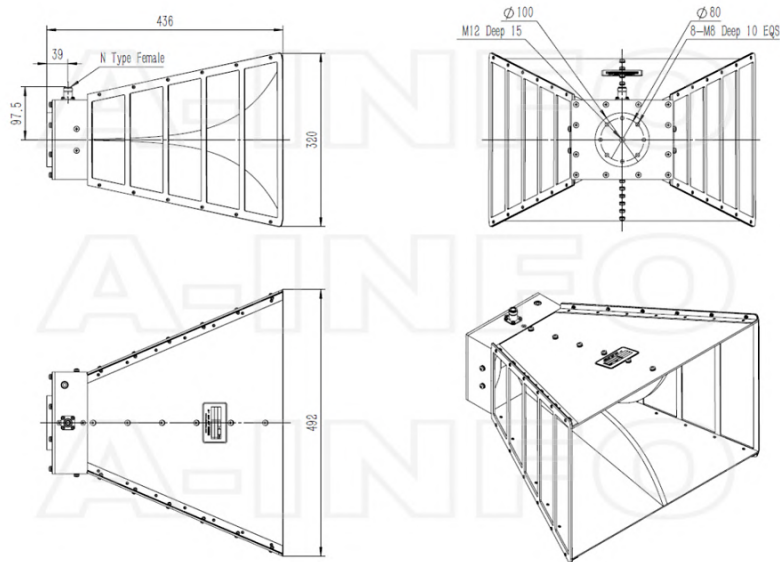
Electrical Specification		Interface	
Frequency, Min (GHz)	0.4	Output Type	Coaxial
Frequency, Max (GHz)	6	Connector	N Type
Gain, Typ (dBi)	10	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	31	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	104	Finish	Chemical Conversion Coating
3dB Beamwidth, H-Plane, Min (Deg.)	35	Size, W (mm)	492
3dB Beamwidth, H-Plane, Max (Deg.)	94	Size, H (mm)	320
Cross Pol. Isolation, Typ (dB)	25	Size, L (mm)	436
VSWR, Typ	1.5:1	Weight, (kg)	7.4
Impedance, (Ohm)	50		
Power Handling, CW, (W)	500		
Power Handling, Peak, (W)	800		

## Additional Information

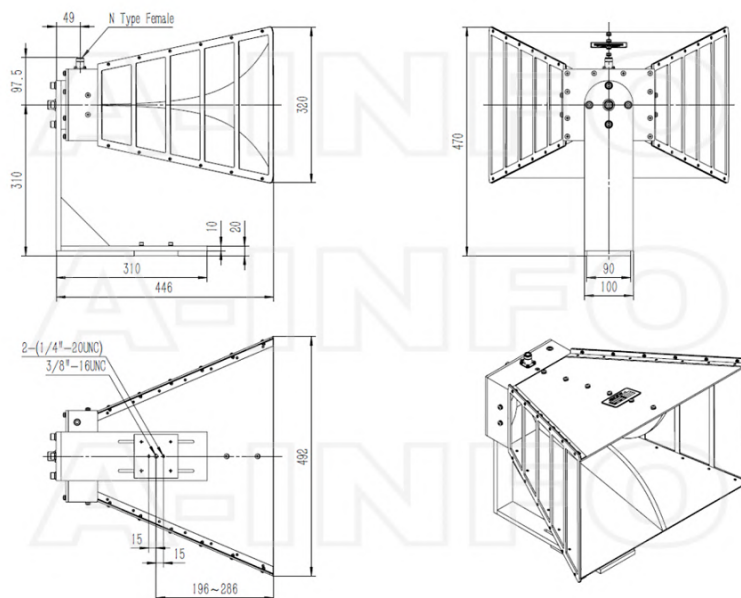
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
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## Outline Drawing

N-Female Output (P/N: LB-460-NF)

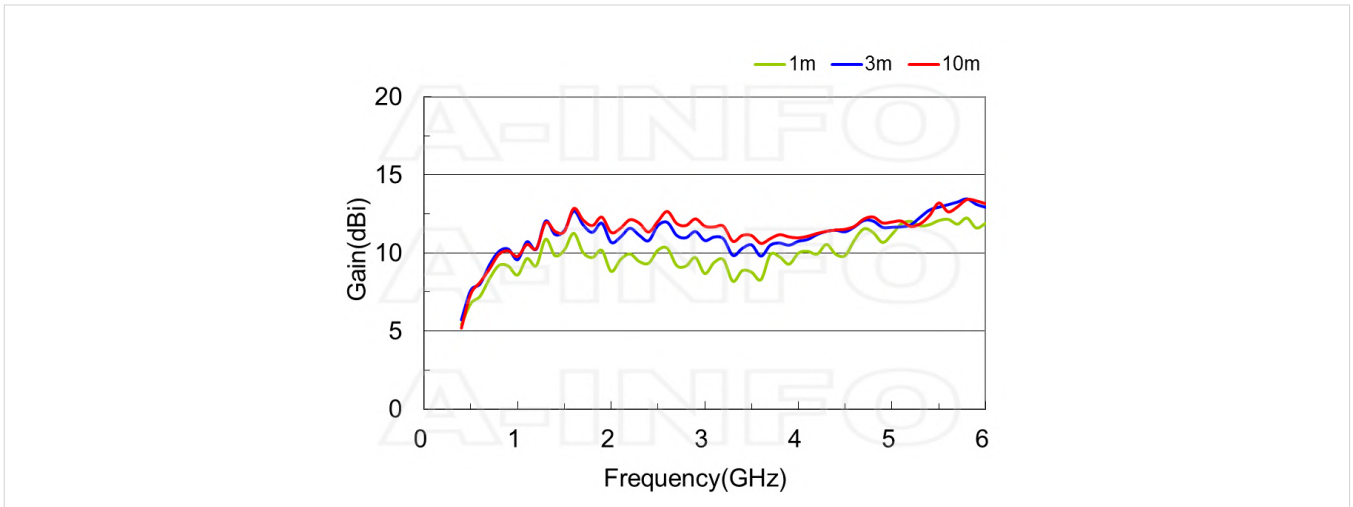


N-Female Output with L Type Mounting Bracket (Option, P/N: LB-460-L)

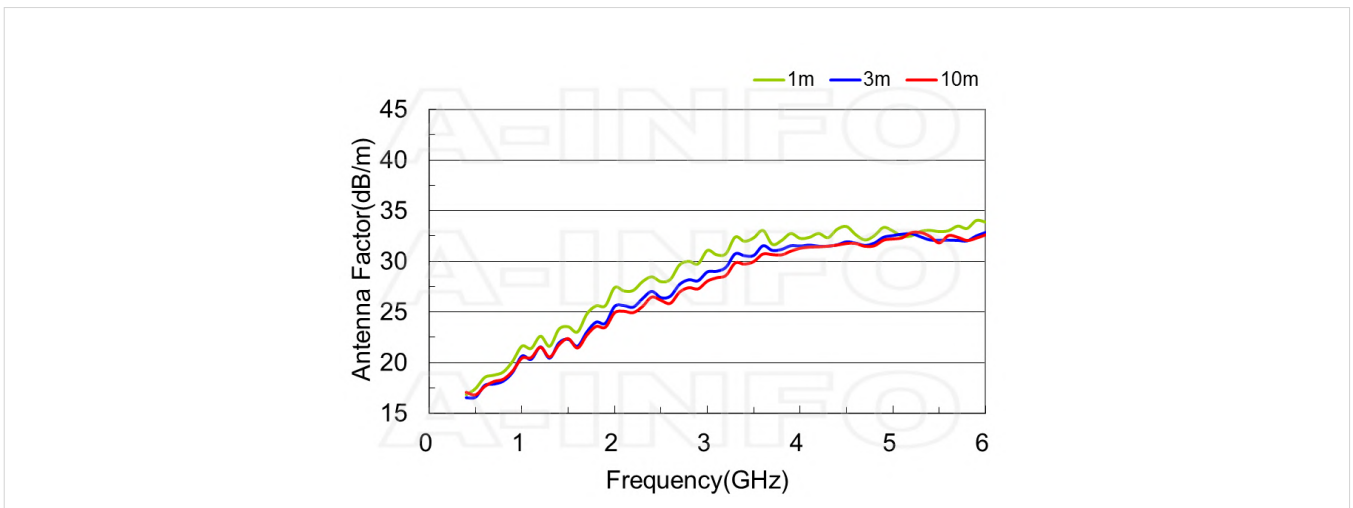


## Typical Test Results

### Gain



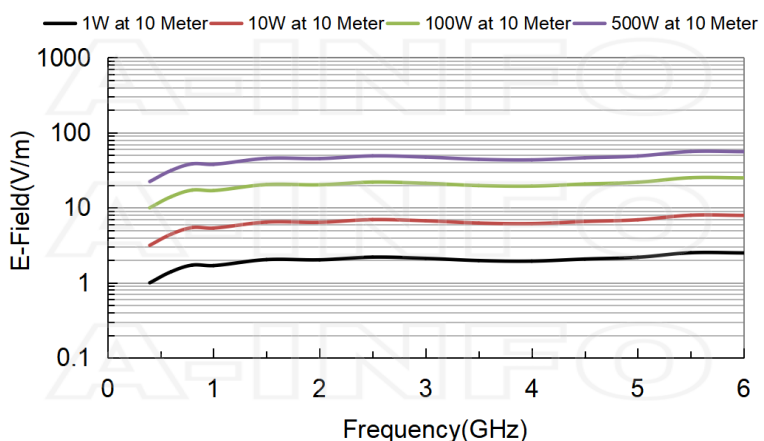
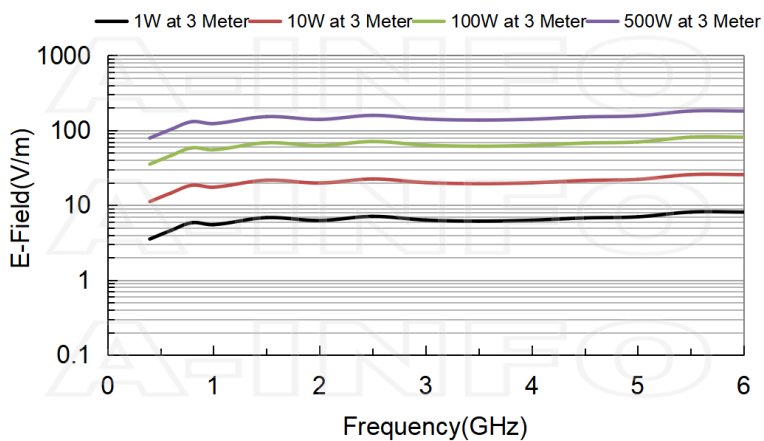
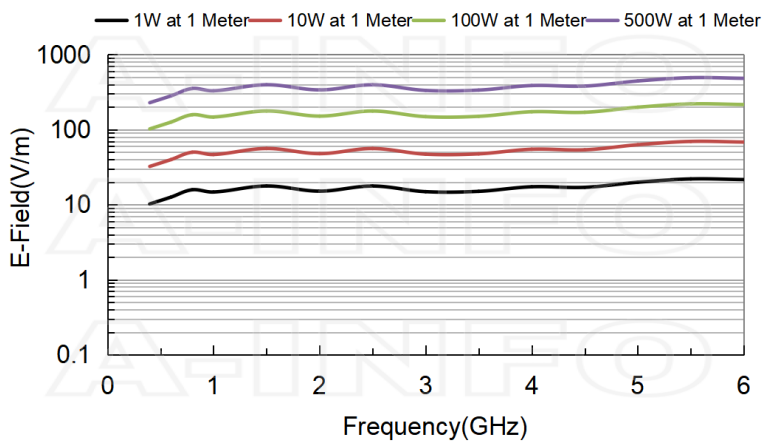
### Antenna Factor



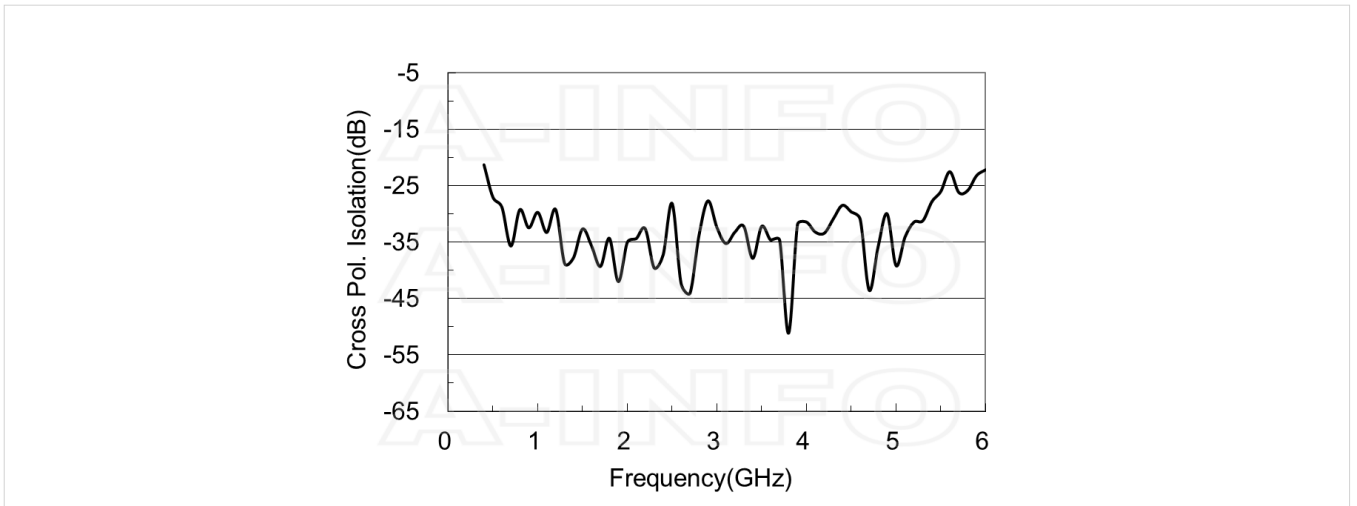
### Antenna Factor (Table)

Frequency(GHz)	1m		3m		10m	
	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)
0.40	5.42	16.83	5.72	16.53	5.19	17.06
0.50	6.76	17.43	7.61	16.58	7.38	16.81
0.60	7.24	18.54	8.02	17.75	8.13	17.65
0.70	8.35	18.76	9.23	17.88	8.98	18.13
0.80	9.20	19.08	10.09	18.18	9.91	18.36
0.90	9.17	20.13	10.26	19.04	10.13	19.16
1.00	8.59	21.62	9.57	20.64	9.78	20.43
2.00	8.83	27.40	10.69	25.55	11.32	24.91
3.00	8.68	31.07	10.80	28.95	11.71	28.04
4.00	9.99	32.26	10.75	31.50	10.97	31.28
5.00	11.20	32.99	11.65	32.54	11.99	32.20
6.00	11.91	33.87	12.93	32.84	13.16	32.62

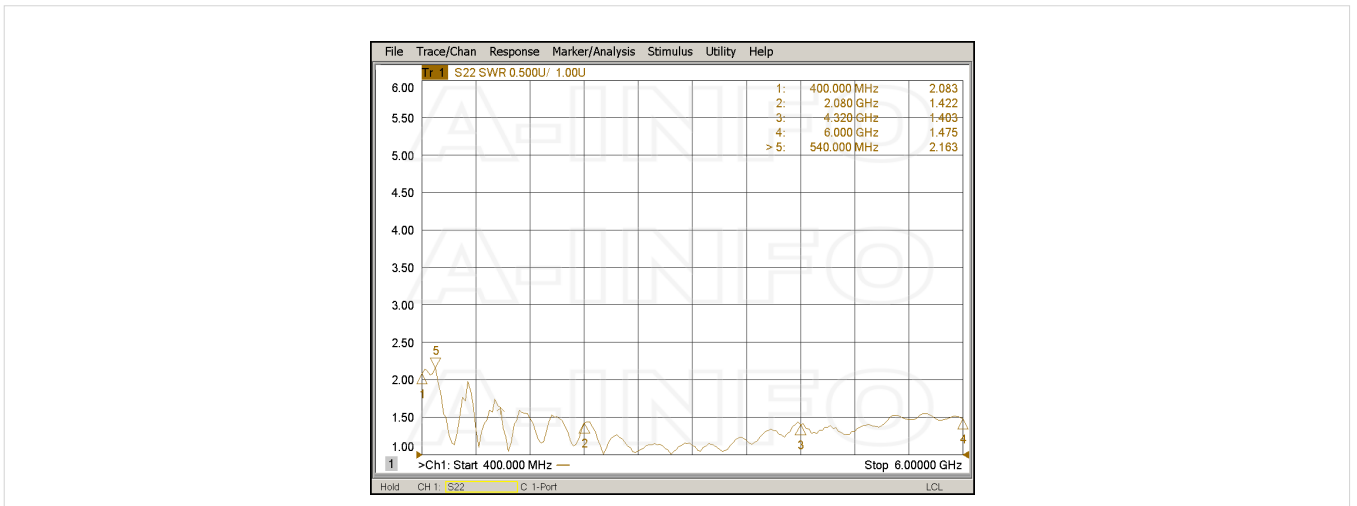
## Field Strength



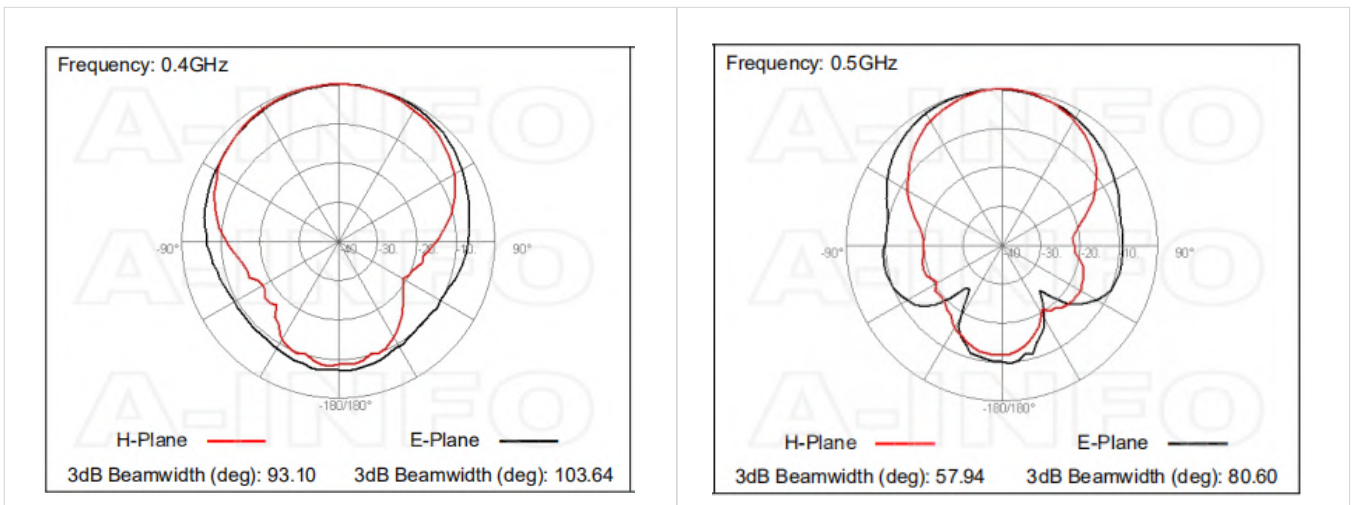
## Cross Polarization Isolation

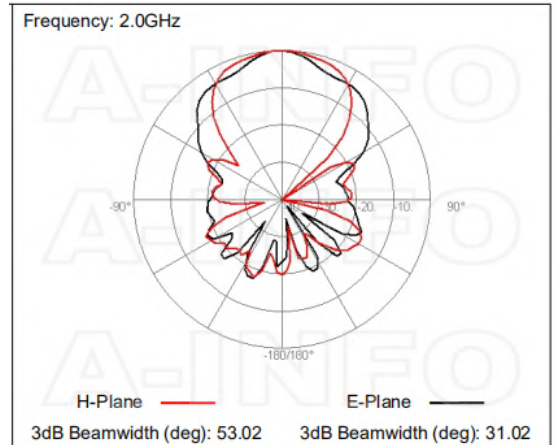
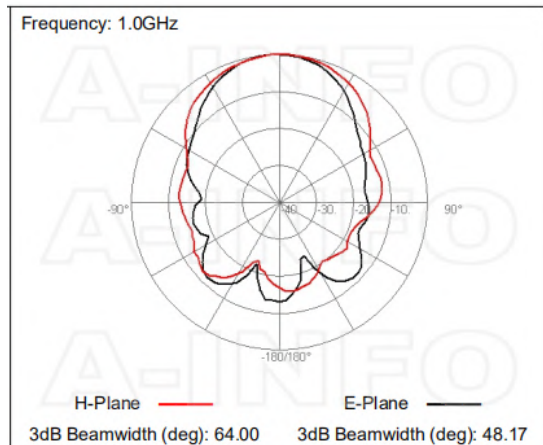
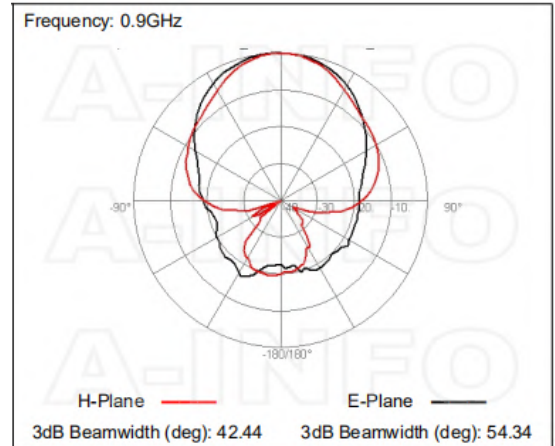
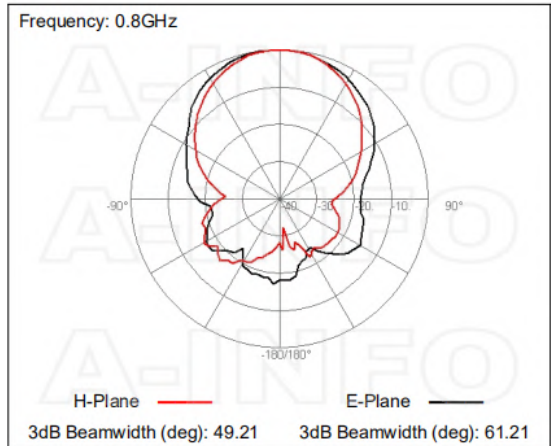
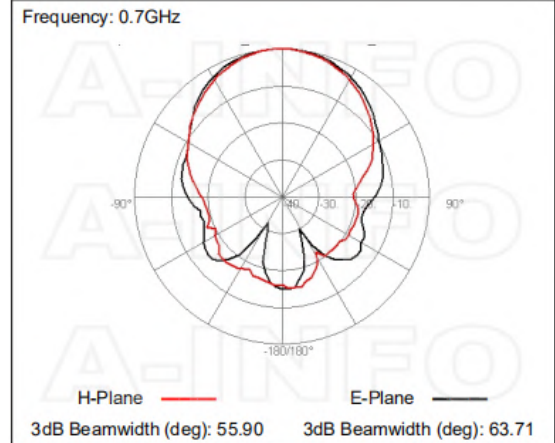
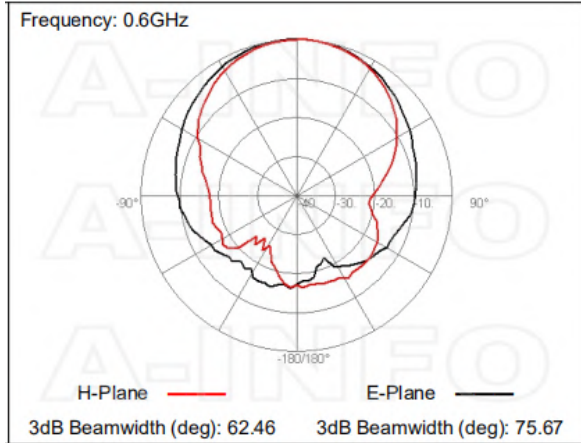


## VSWR

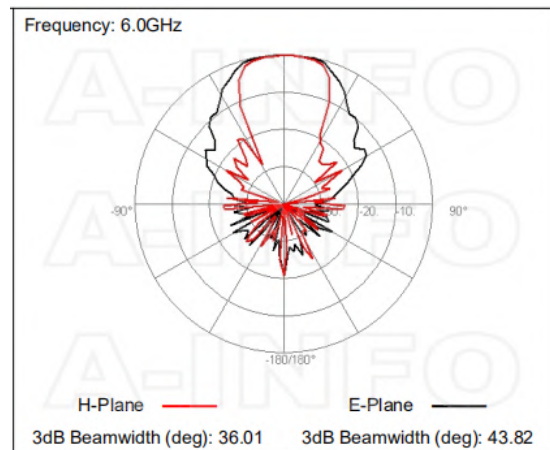
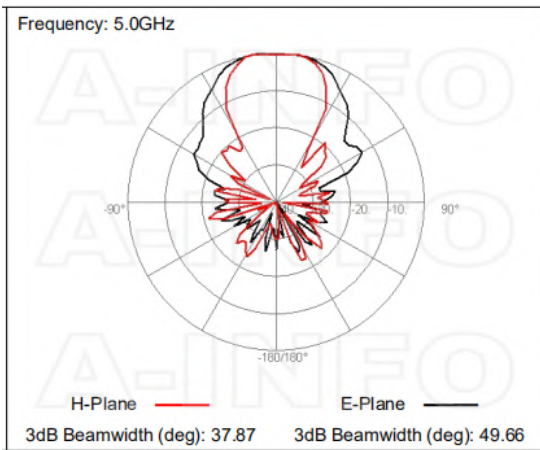
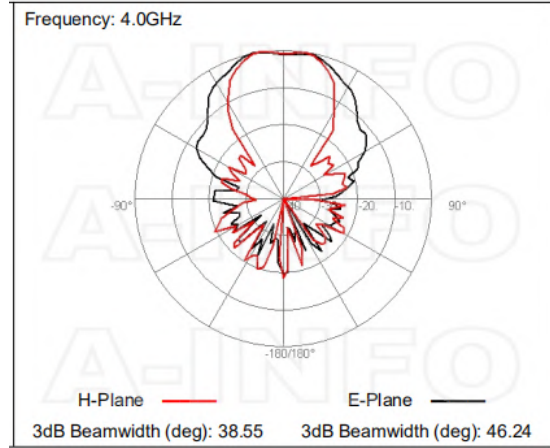
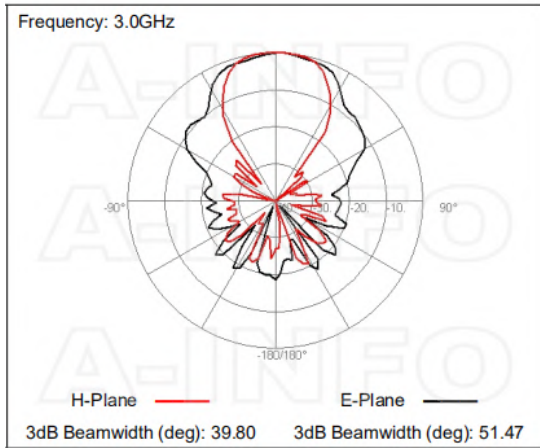


## Pattern









## Related Products



LB-460-L L type mounting bracket



Tripod\_50Kg Al Alloy Tripod



Carrying Case\_LB-460 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-225-NF Broadband Horn  
Antenna 0.2-2.5GHz 12dB Gain N  
Type Female



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



LB-460-NFSP0 Broadband Horn  
Antenna 0.4-6GHz 10dB Gain N  
Type Female



LB-560-NF Broadband Horn  
Antenna 0.5-6.0 GHz 11dB Gain N  
Type Female



LB-560-NFSP0 Broadband Horn  
Antenna 0.5-6GHz 11dB Gain N  
Type Female



LB-660-NF Broadband Horn  
Antenna 0.6-6.0 GHz 11dB Gain N  
Type Female



LB-660-NFSP0 Broadband Horn  
Antenna 0.6-6GHz 11dB Gain N  
Type Female



LB-OSJ-0460-NF Open Boundary  
Quad-Ridged Dual Polarization  
Horn Antenna 0.4-6GHz 12dB  
Gain N Type Female



LB-OSJ-0460-SF Open Boundary  
Quad-Ridged Dual Polarization  
Horn Antenna 0.4-6GHz 12dB  
Gain SMA Female



LB-OSJ-0760-NF Open Boundary  
Quad-Ridged Dual Polarization  
Horn Antenna 0.7-6GHz 11dB  
Gain N Type Female



LB-OSJ-0760-SF Open Boundary  
Quad-Ridged Dual Polarization  
Horn Antenna 0.7-6GHz 11dB  
Gain SMA Female

### About this Datasheet

- **Product Information**

Product Link:  
<https://www.ainfoinc.com/lb-460-nf-broadband-horn-antenna-0-4-6-0-ghz-10db-gain-n-type-female>  
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