



LB-5500-2.4F Broadband Horn Antenna 0.5-50GHz 12dB Gain 2.4mm Female

Broadband Horn Antenna Operating From 0.5GHz to 50GHz With a Nominal 12dB Gain With 2.4mm Female Connector

#### **Product Information**

SKU LB-5500-2.4F Patents ZL202121732730.2 (China		SKU	LB-5500-2.4F	Paterits	ZL202121732730.2 (China)
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## Description

Broadband horn antenna LB-5500-2.4F, operating from 0.5 to 50GHz with a nominal 12dB gain and low VSWR 1.8:1 with 2.4mm Female output connector. The model LB-5500-2.4F 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 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	
Frequency, Min (GHz)	0.5
Frequency, Max (GHz)	50
Gain, Typ (dBi)	12
Polarization	Linear
3dB Beamwidth, E-Plane, Min (Deg.)	14
3dB Beamwidth, E-Plane, Max (Deg.)	111
3dB Beamwidth, H-Plane, Min (Deg.)	11
3dB Beamwidth, H-Plane, Max (Deg.)	84
Cross Pol. Isolation, Typ (dB)	35
VSWR, Typ	1.8:1
Impedance, (Ohm)	50
Power Handling, CW, (W)	10
Power Handling, Peak, (W)	20

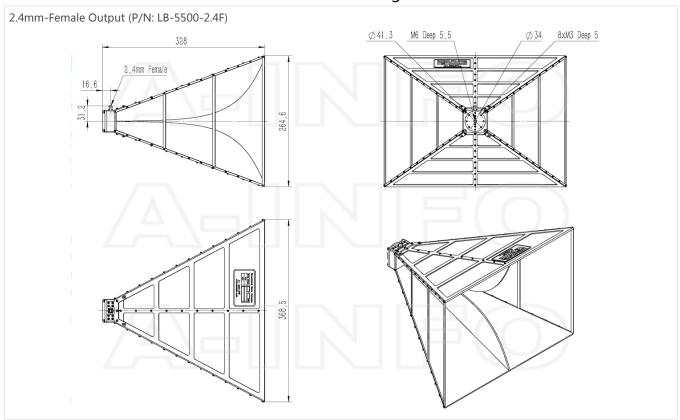
Interface	
Output Type	Coaxial
Connector	2.4mm
Connector Gender	Female
Mechanical Specification	
Body Material	Al
Finish	Chemical Conversion Coating
Size, W (mm)	368.5
Size, H (mm)	264.6
Size, L (mm)	328
Weight, (kg)	1.32



### **Additional Information**

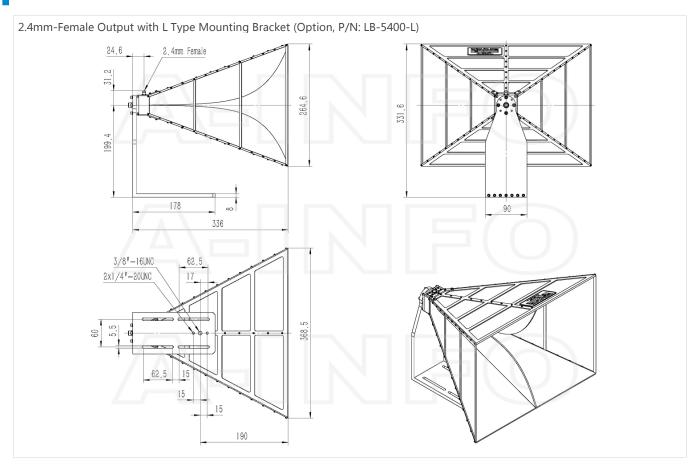
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement	
			Reflector Feed Far-field Measurement	
			System Intergration	

# **Outline Drawing**



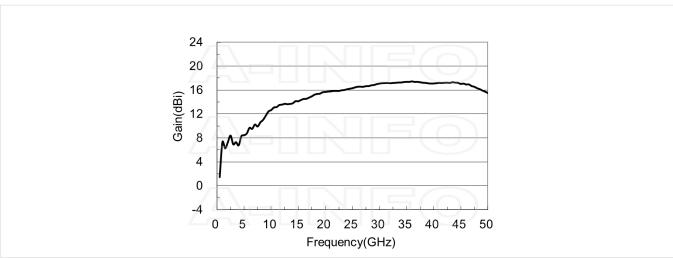
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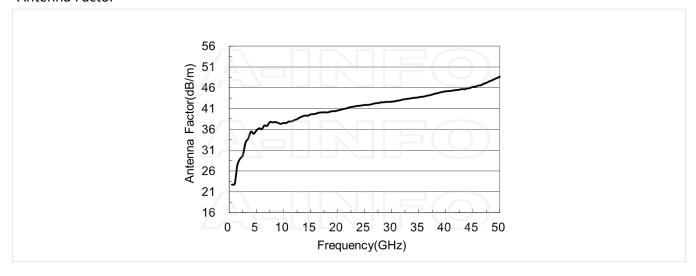
**Typical Test Results** 







#### Antenna Factor

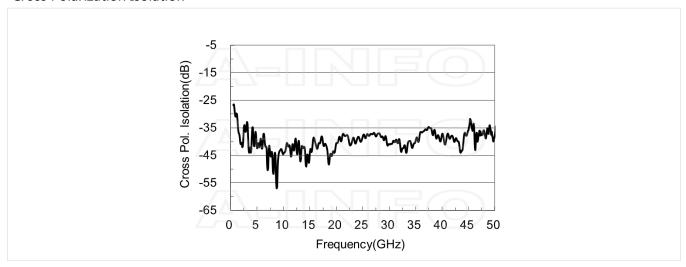


# Antenna Factor (Table)

Frequency(GHz)	Gain(dBi )	Antenna
		Factor(dB/m)
0.5	1.45	22.73
0.6	3.28	22.49
0.7	5.55	21.56
0.8	6.20	22.07
0.9	6.98	22.31
1.0	7.31	22.90
2.0	7.27	28.96
3.0	6.93	32.82
4.0	6.77	35.49
5.0	8.46	35.73
6.0	9.69	36.08
7.0	10.25	36.86
8.0	10.59	37.68
9.0	11.71	37.59
10.0	12.65	37.56
12.0	13.57	38.23
14.0	13.80	39.33
16.0	14.52	39.78
18.0	15.23	40.09
20.0	15.69	40.54
22.0	15.86	41.20
24.0	16.14	41.68
26.0	16.56	41.95
28.0	16.66	42.49
30.0	17.09	42.66
32.0	17.15	43.17
34.0	17.26	43.58
36.0	17.45	43.89
38.0	17.22	44.58
40.0	17.10	45.15
42.0	17.21	45.46
44.0	17.23	45.85
46.0	16.93	46.53
48.0	16.31	47.52
50.0	15.51	48.67



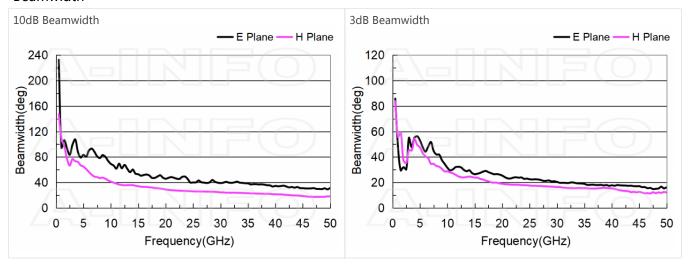
#### **Cross Polarization Isolation**



#### **VSWR**

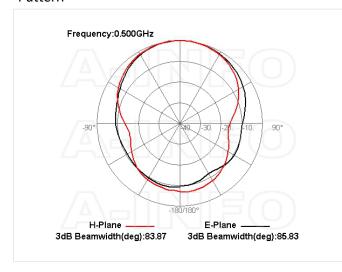


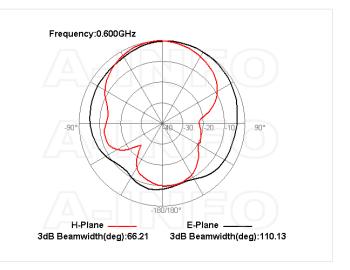
#### Beamwidth

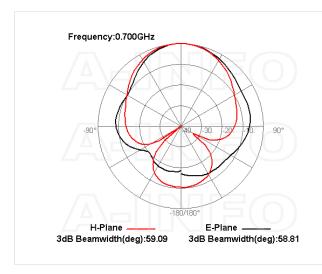


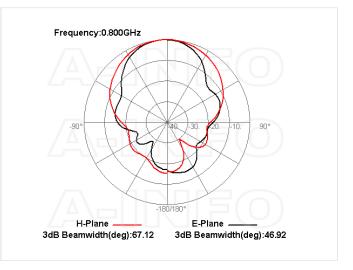


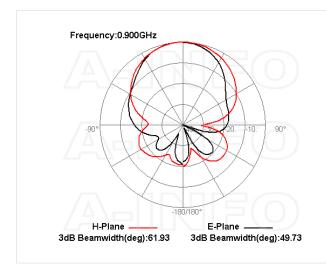
#### Pattern

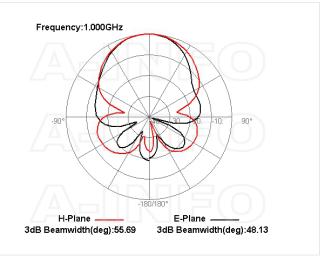




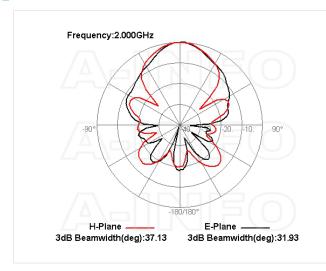


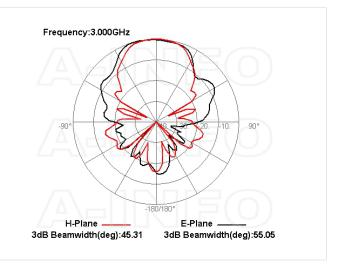


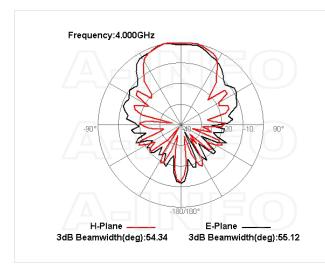


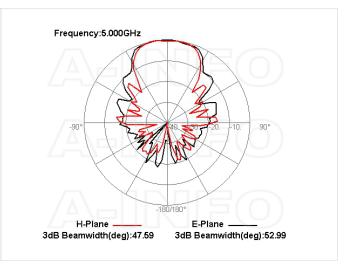


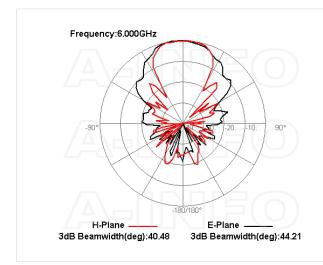


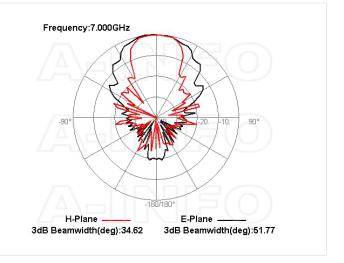




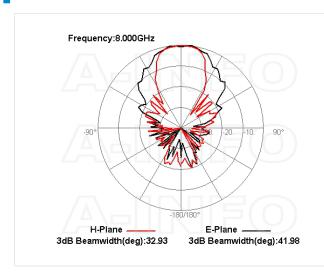


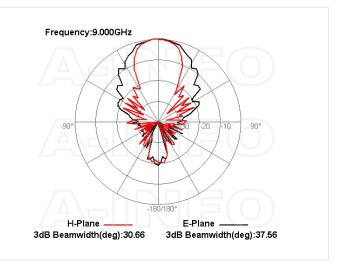


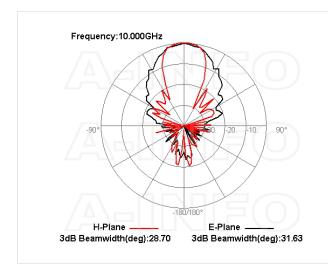


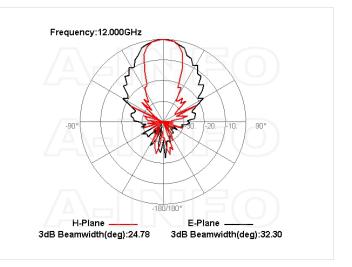


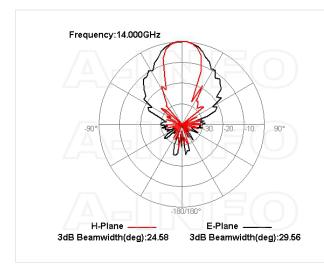


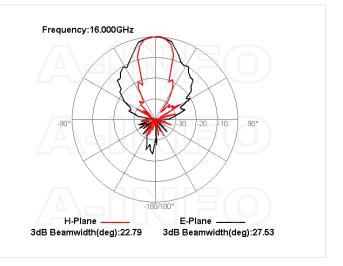






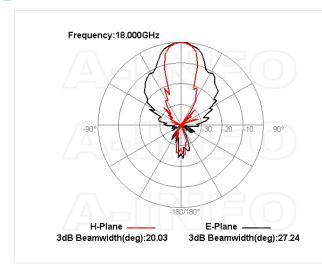


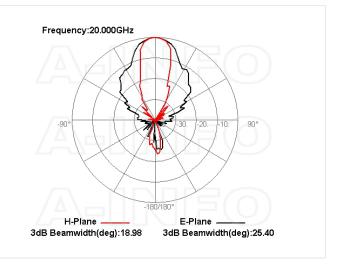


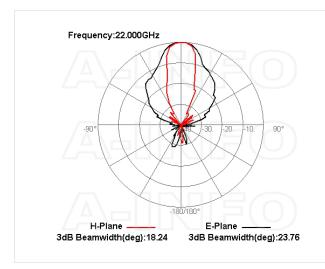


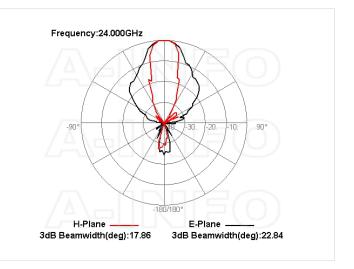
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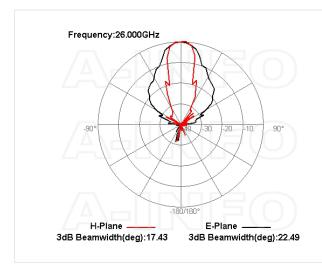


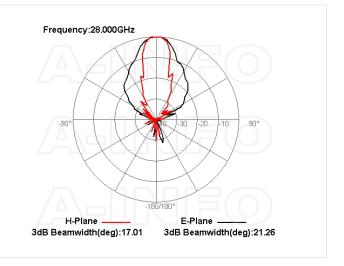






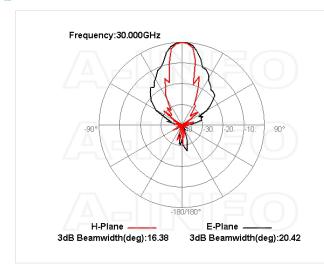


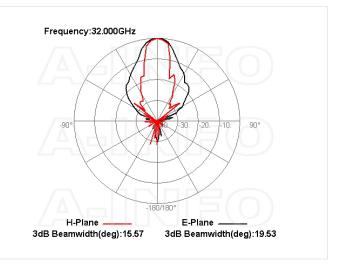


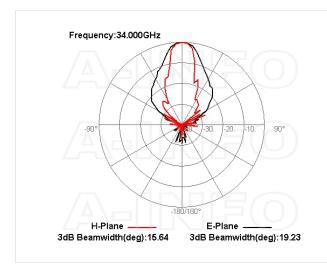


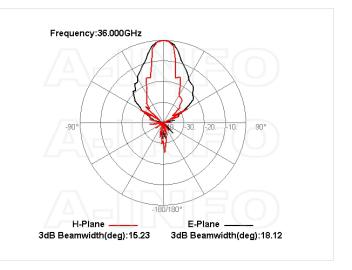
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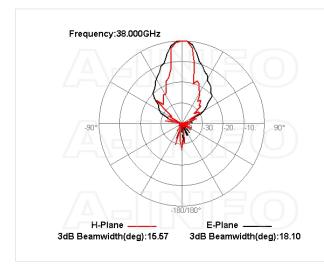


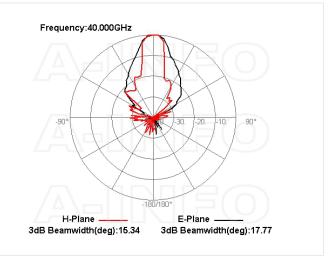




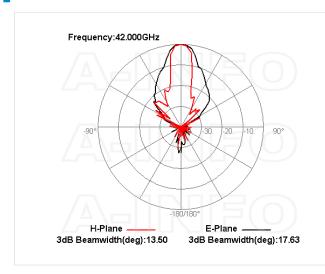


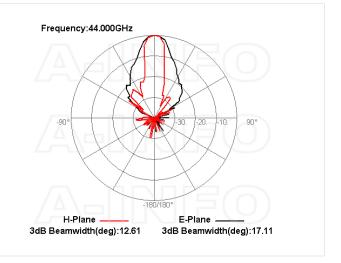


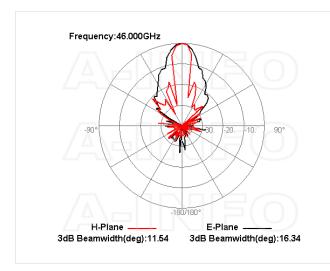


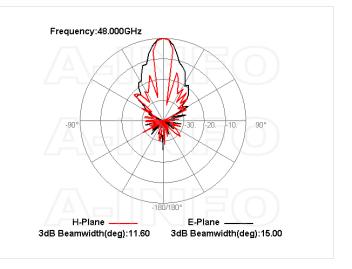


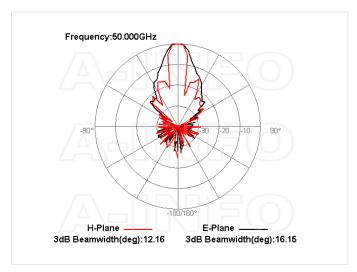












# A-INFO

#### **Related Products**



LB-5400-L L type mounting bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



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-8020-5000 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



2.4M-2.4F-B020S-10000 Flexible Cable Assembly 10000mm DC-50GHz 2.4mm Male to 2.4mm Female

#### **Similar Products**



LB-5300-KF Broadband Horn Antenna 0.5-30GHz 12dB Gain 2.92mm Female



LB-5300-2.4F Broadband Horn Antenna 0.5-30GHz 12dB Gain 2.4mm Female



LB-5400-KF Broadband Horn Antenna 0.5-40GHz 12dB Gain 2.92mm Female



LB-5400-2.4F Broadband Horn Antenna 0.5-40GHz 12dB Gain 2.4mm Female



LB-40400-KF Broadband Horn Antenna 4-40GHz 13dB Gain 2.92mm Female



LB-40400-KFSPO Broadband Horn Antenna 4-40GHz 13dB Gain 2.92mm Female



LB-40400-2.4F Broadband Horn Antenna 4-40GHz 13dB Gain 2.4mm Female



LB-40400-2.4FSPO Broadband Horn Antenna 4-40GHz 13dB Gain 2.4mm Female



LB-45500-2.4F Broadband Horn Antenna 4.5-50GHz 13dB Gain 2.4mm Female



LB-45500-2.4FSPO Broadband Horn Antenna 4.5-50GHz 13dB Gain 2.4mm Female



LB-SJ-40400-KF Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-KFSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-2.4F Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-40400-2.4FSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-50500-2.4F Broadband Dual Polarization Horn Antenna 5-50GHz 12dB Gain 2.4mm Female



LB-SJ-50500-1.85F Broadband Dual Polarization Horn Antenna 5-50GHz 12dB Gain 1.85mm Female

#### About this Datasheet

• Product Information

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