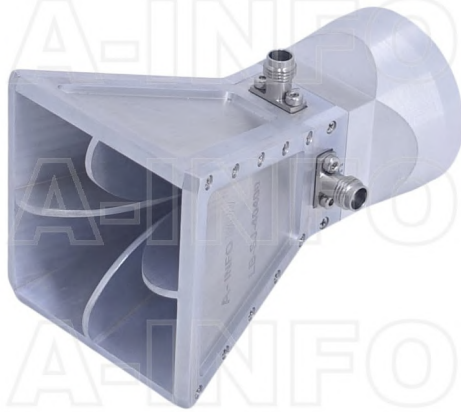


LB-SJ-40400-KF Broadband Dual Polarization Horn Antenna 4-40GHz
12dB Gain 2.92mm Female



Broadband Dual Polarization Horn Antenna Operating From 4GHz to 40GHz With a Nominal 12dB Gain With 2.92mm Female Connector

Product Information

SKU	LB-SJ-40400-KF	Patents	US D975690 (USA)
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Description

Broadband Dual Polarization Horn Antenna LB-SJ-40400-KF, operating from 4 to 40GHz with a nominal 12dB gain and low VSWR 1.5:1 with 2.92mm Female output connector. The model LB-SJ-40400-KF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 20W continuously and 40W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This horn antenna has dual linear polarization and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

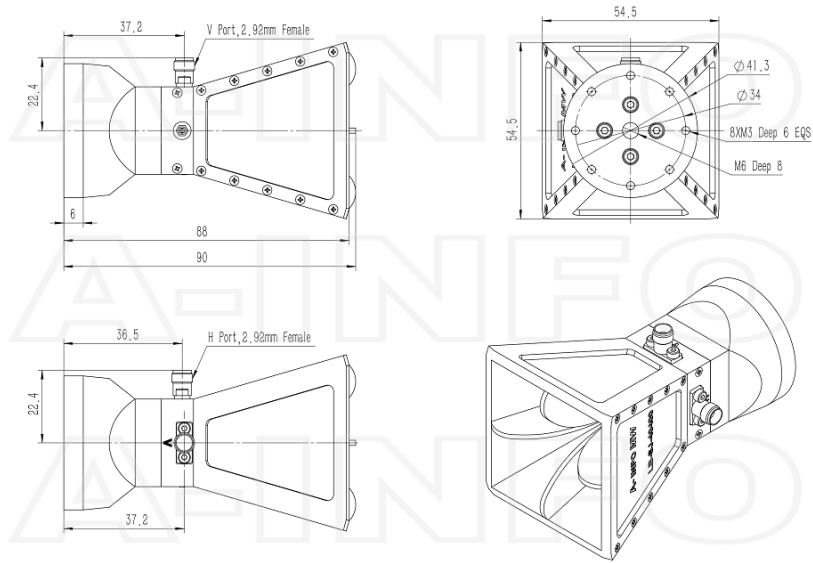
Electrical Specification		Interface	
Frequency, Min (GHz)	4	Output Type	Coaxial
Frequency, Max (GHz)	40	Connector	2.92mm(K)
Gain, Typ (dBi)	12	Connector Gender	Female
Polarization	Dual Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	28	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	85	Finish	Chemical Conversion Coating
3dB Beamwidth, H-Plane, Min (Deg.)	18	Size, W (mm)	54.5
3dB Beamwidth, H-Plane, Max (Deg.)	94	Size, H (mm)	54.5
Cross Pol. Isolation, Min (dB)	20	Size, L (mm)	90
Cross Pol. Isolation, Typ (dB)	30	Weight, (kg)	0.15
Port to Port Isolation, Min (dB)	20		
Port to Port Isolation, Typ (dB)	30		
VSWR, Typ	1.5:1		
VSWR, Max	2.5:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	20		
Power Handling, Peak, (W)	40		

Additional Information

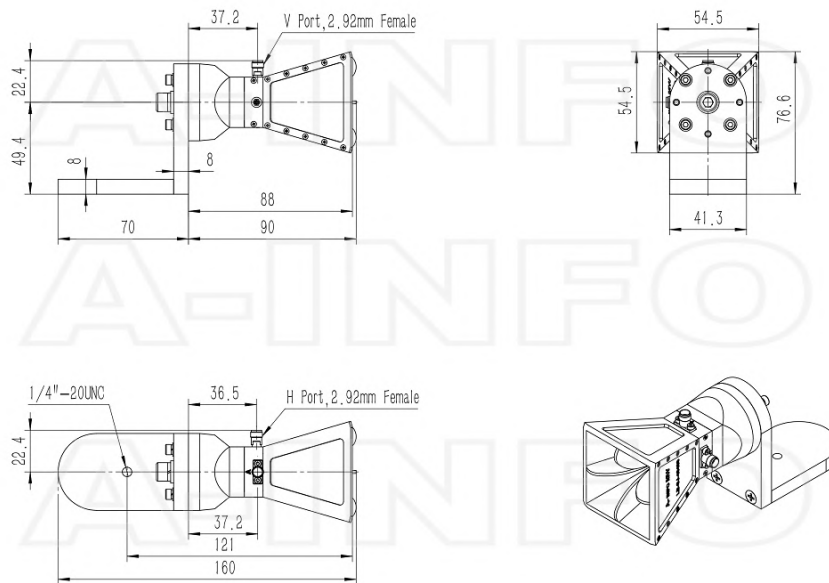
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Antenna Measurement Reflector Feed Far-field Measurement Planar Near-Field Measurement Cylindrical Near-Field Measurement Spherical Near-Field Measurement CATR System Intergration
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Outline Drawing

2.92mm-Female Output (P/N: LB-SJ-40400-KF)

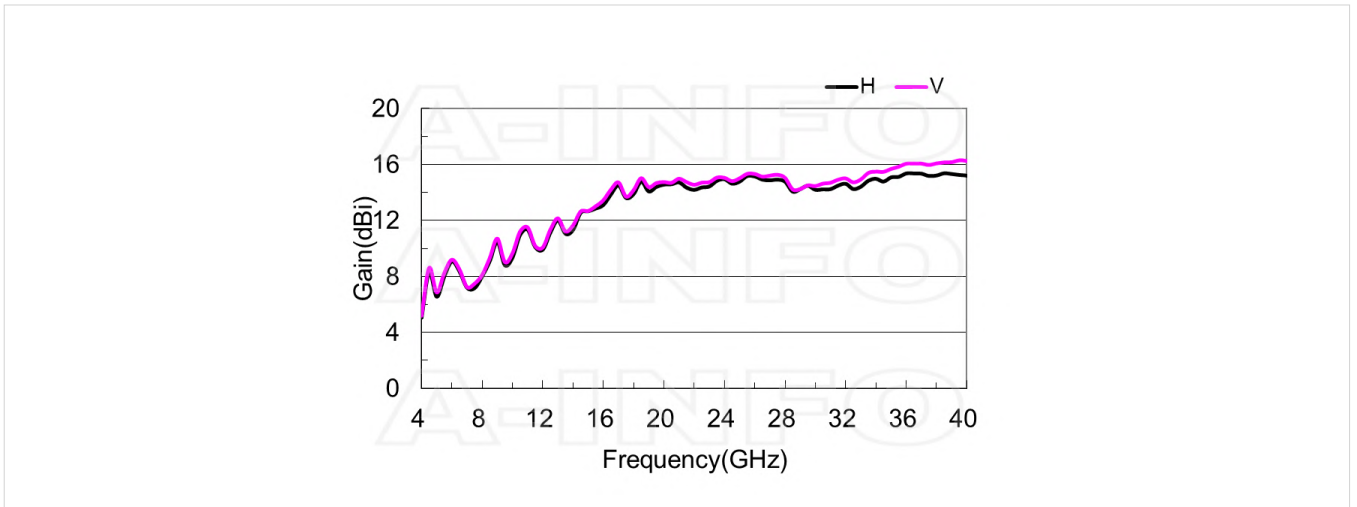


2.92mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-20180-L)

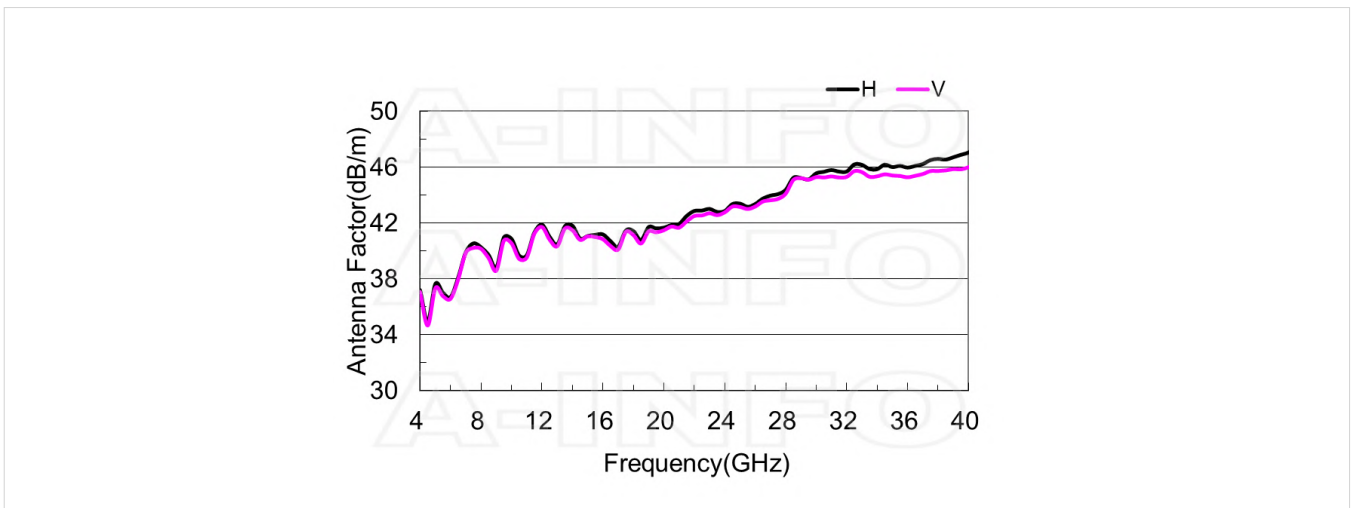


Typical Test Results

Gain



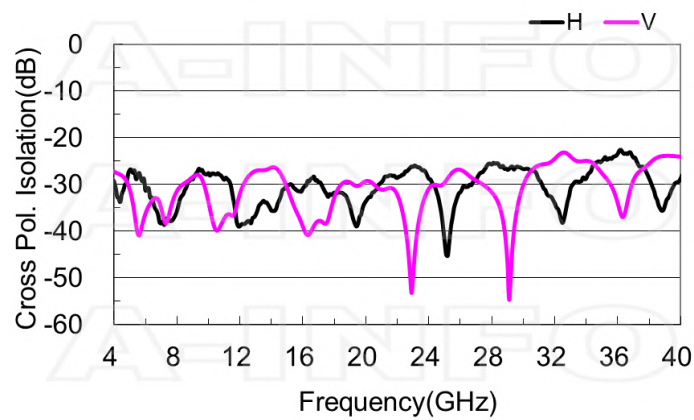
Antenna Factor



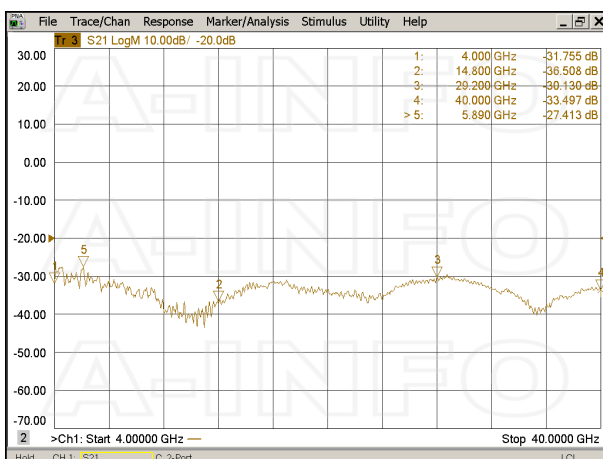
Antenna Factor (Table)

Frequency(GHz)	Horizontal		Vertical	
	Gain(dBi)	AF(dB/m)	Gain(dBi)	AF(dB/m)
4.0	5.05	37.20	5.19	37.06
5.0	6.55	37.64	6.86	37.33
6.0	9.07	36.70	9.20	36.58
7.0	7.20	39.91	7.24	39.87
8.0	8.01	40.26	8.11	40.16
9.0	10.48	38.81	10.71	38.59
10.0	9.34	40.87	9.66	40.55
12.0	9.91	41.88	10.07	41.72
14.0	11.32	41.81	11.65	41.49
16.0	13.10	41.19	13.45	40.84
18.0	13.89	41.43	14.18	41.14
20.0	14.56	41.67	14.75	41.48
22.0	14.19	42.87	14.55	42.51
24.0	14.95	42.87	15.05	42.77
26.0	15.15	43.36	15.32	43.18
28.0	14.77	44.38	15.04	44.11
30.0	14.19	45.56	14.46	45.30
32.0	14.62	45.69	15.00	45.31
34.0	14.98	45.86	15.49	45.35
36.0	15.36	45.98	16.06	45.28
38.0	15.21	46.59	16.08	45.73
40.0	15.20	47.06	16.25	46.00

Cross Polarization Isolation

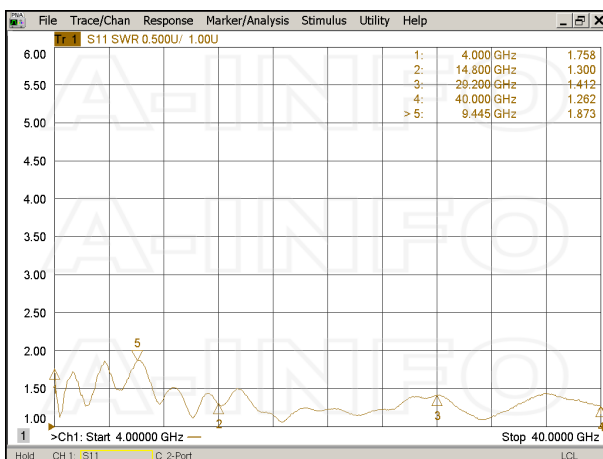


Port to Port Isolation

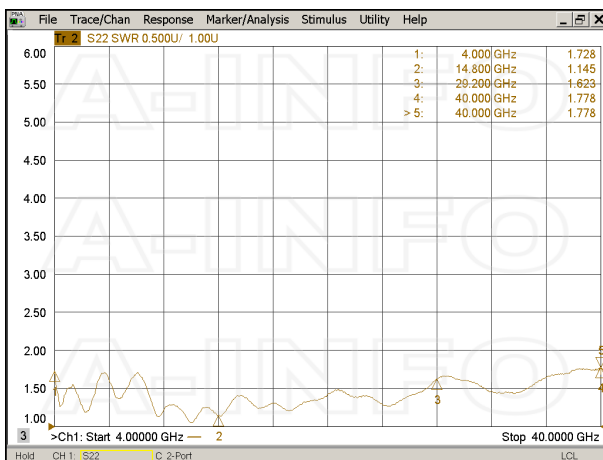


VSWR

Port-H

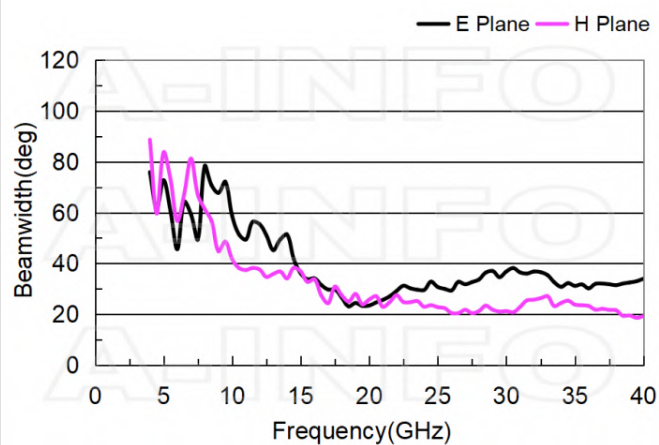


Port-V

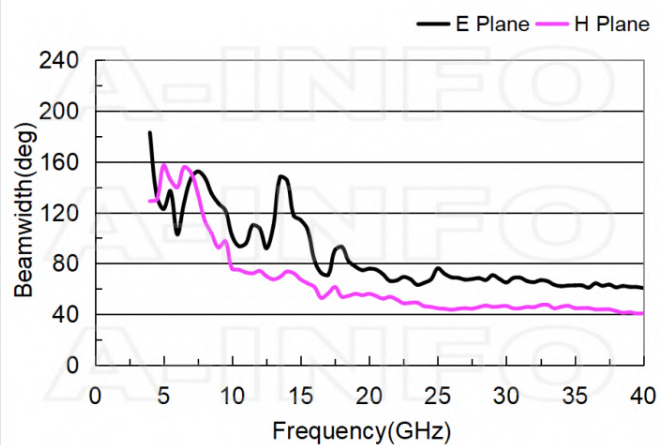


Beamwidth

3dB Beamwidth

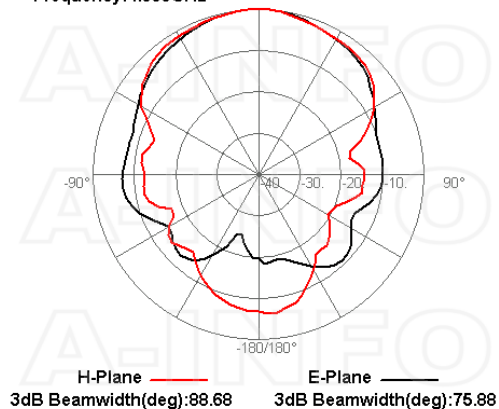


10dB Beamwidth

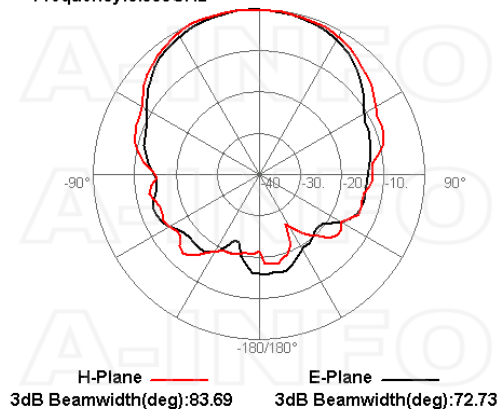


Pattern 1

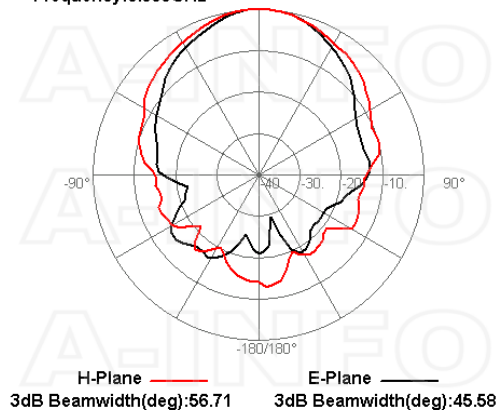
Frequency:4.000GHz



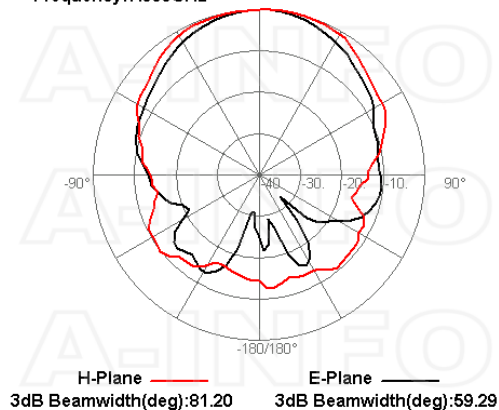
Frequency:5.000GHz



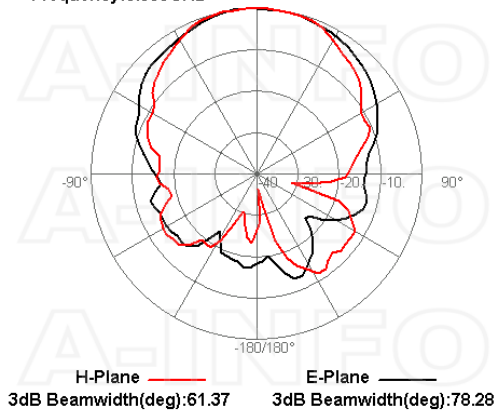
Frequency:6.000GHz



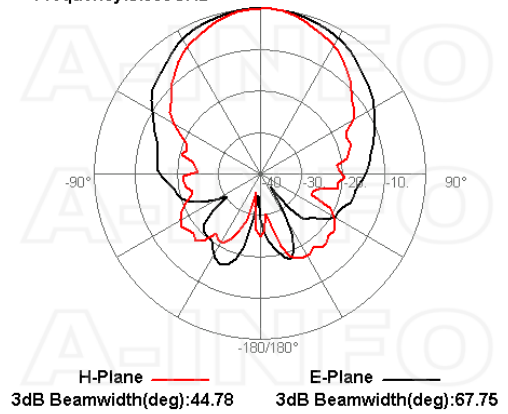
Frequency:7.000GHz



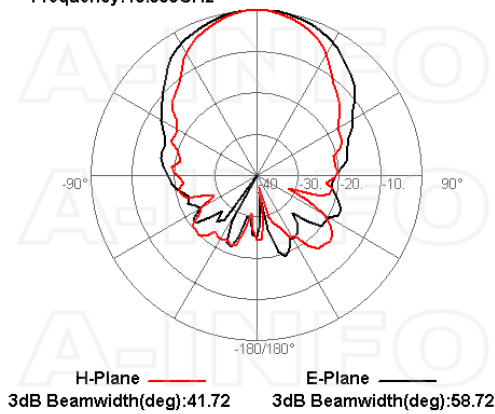
Frequency:8.000GHz



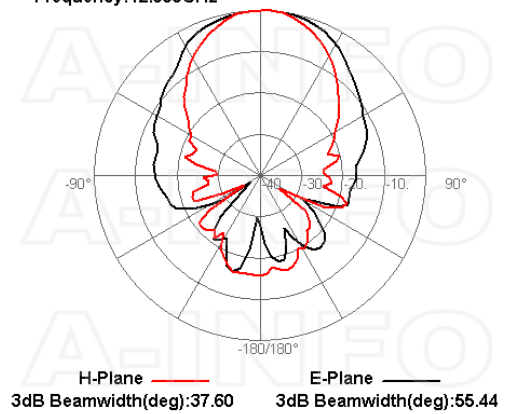
Frequency:9.000GHz



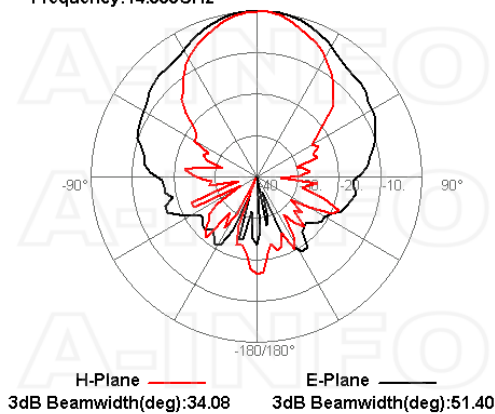
Frequency:10.000GHz



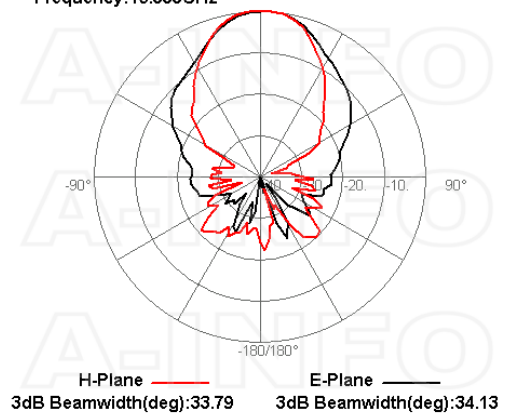
Frequency:12.000GHz



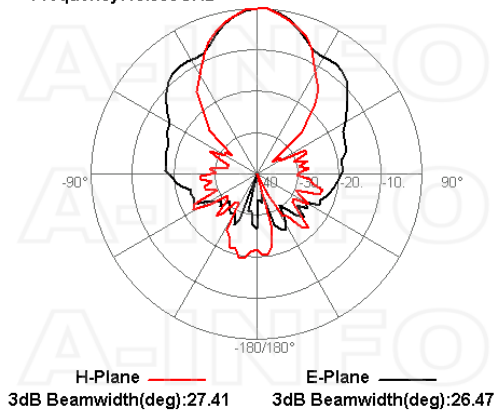
Frequency:14.000GHz



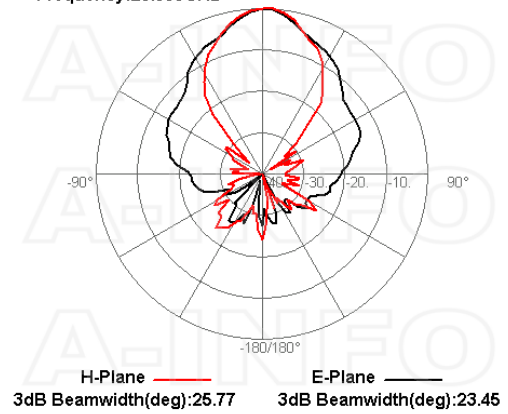
Frequency:16.000GHz



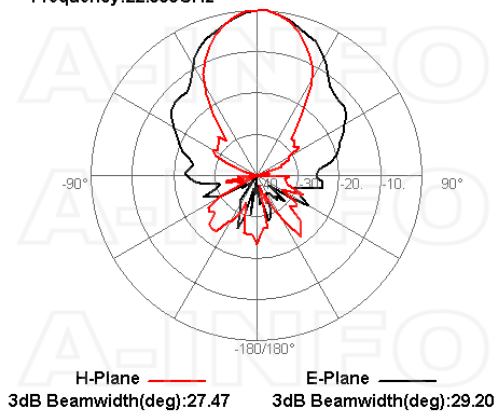
Frequency:18.000GHz



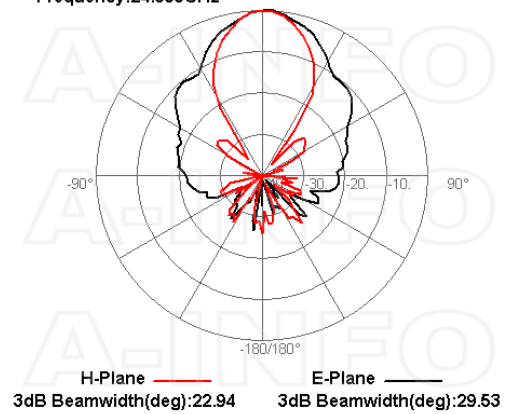
Frequency:20.000GHz



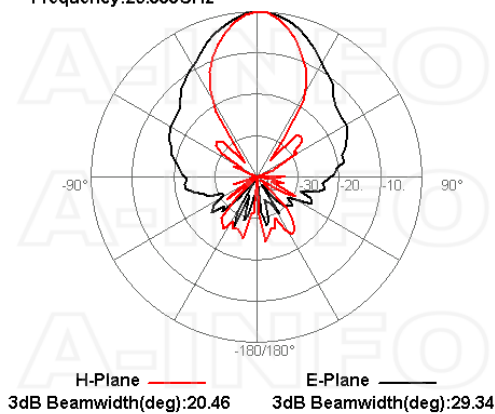
Frequency:22.000GHz



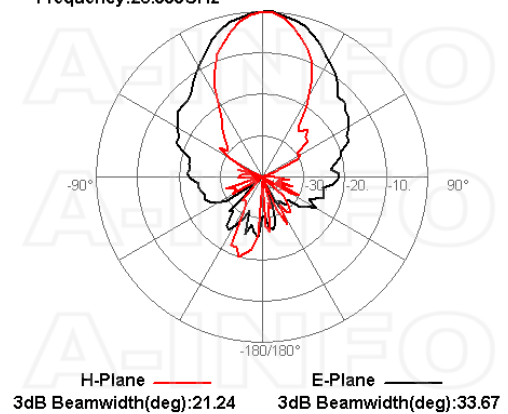
Frequency:24.000GHz



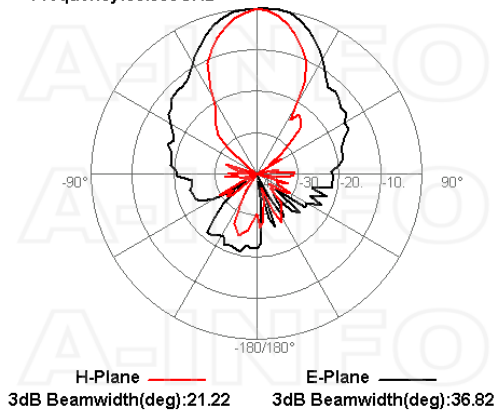
Frequency:26.000GHz



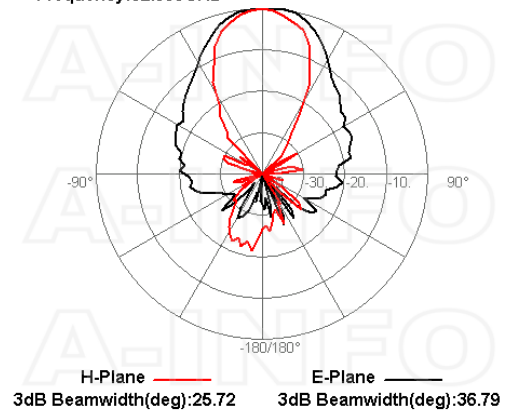
Frequency:28.000GHz



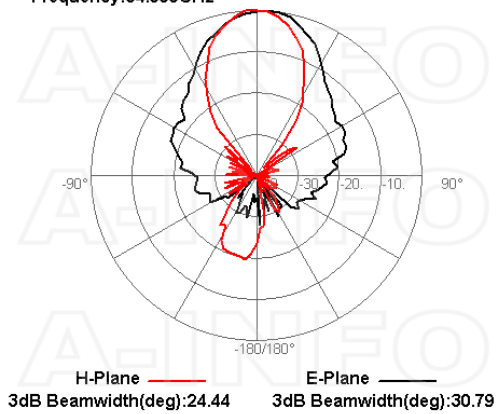
Frequency:30.000GHz



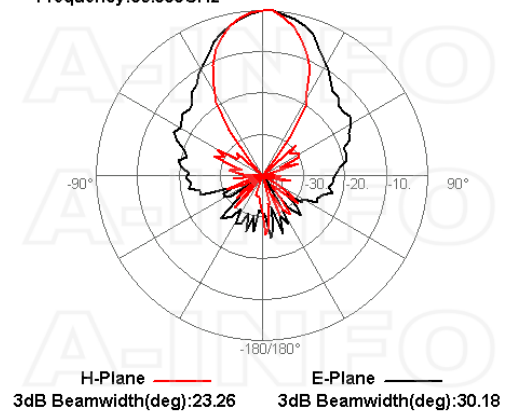
Frequency:32.000GHz



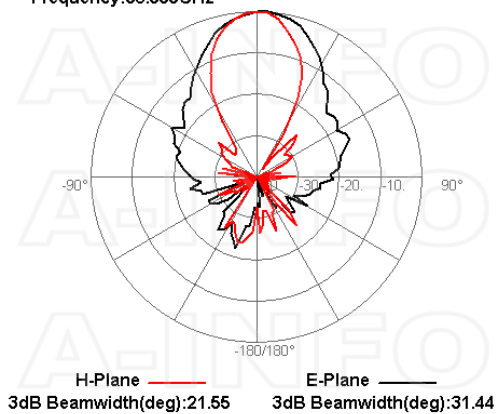
Frequency:34.000GHz



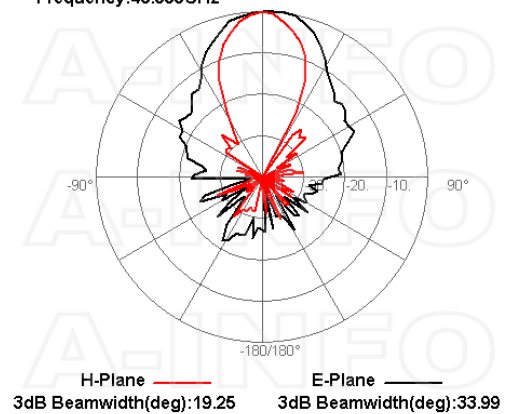
Frequency:36.000GHz



Frequency:38.000GHz



Frequency:40.000GHz



Related Products



LB-20180-L L Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-SJ-40400 Al Alloy Carrying Case



2.92M-2.92M-A050-500 Flexible Cable Assembly 500mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-1000 Flexible Cable Assembly 1000mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-1500 Flexible Cable Assembly 1500mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-2000 Flexible Cable Assembly 2000mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-3000 Flexible Cable Assembly 3000mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-5000 Flexible Cable Assembly 5000mm DC-40GHz 2.92mm Male to 2.92mm Male



2.92M-2.92M-A050-10000 Flexible Cable Assembly 10000mm DC-40GHz 2.92mm Male to 2.92mm Male

About this Datasheet

● Product Information

Product Link:
<https://www.ainfoinc.com/lb-sj-40400-kf-broadband-dual-polarization-horn-antenna-4-40-ghz-12db-gain-2-92mm-female>
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