

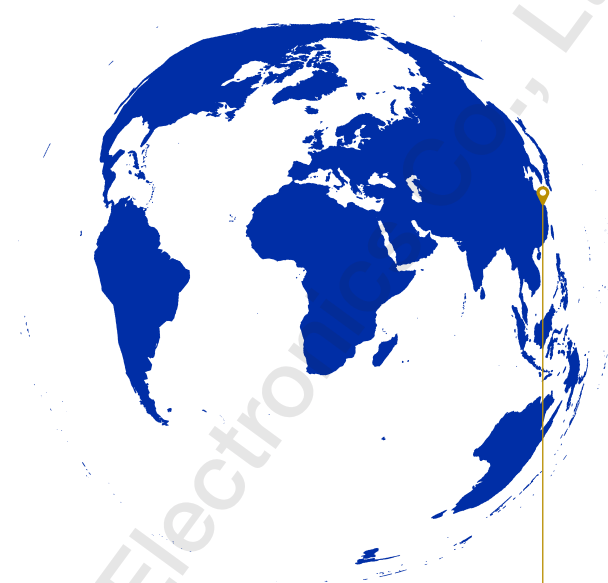


Waveguide Probe Antenna

9.84 - 15.0 GHz



QR code



Hangzhou Multipath Electronics Co., Ltd., Zhejiang, China

⚙️ Product specifications

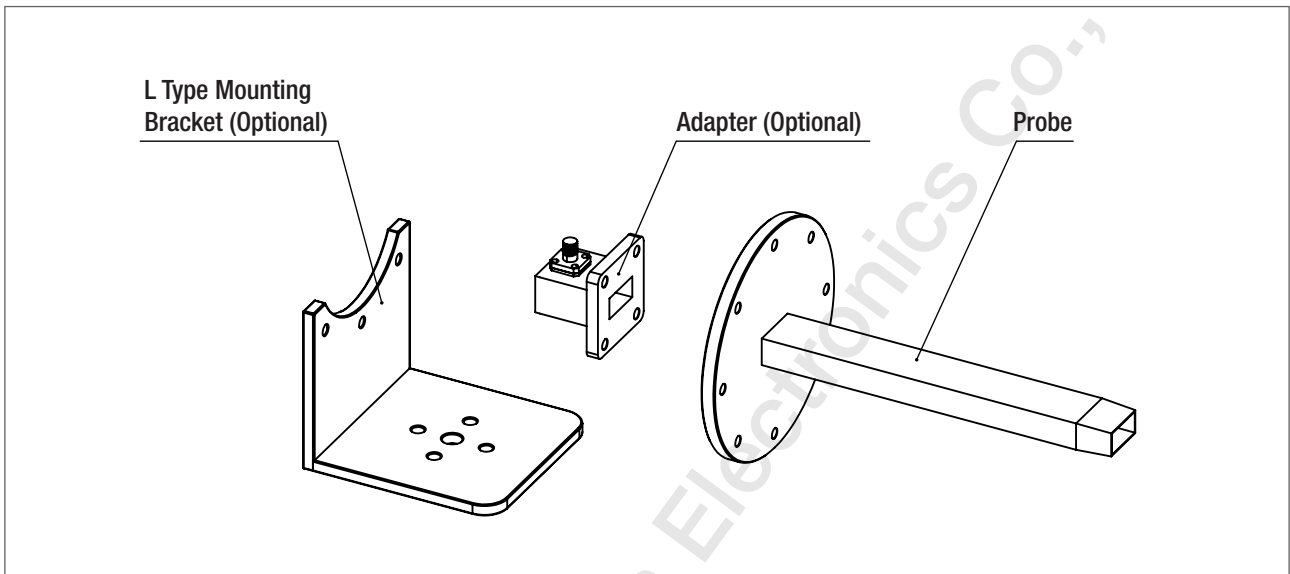
Part number	WP-WR75	Polarization	Single linear
Antenna type	Waveguide Probe Antenna	Gain [dBi]	6 Typ.
Frequency range [GHz]	9.84 – 15.0	3dB beamwidth [deg]	E-plane: 112 Typ. H-plane: 62 Typ.
Waveguide band	WR75	Cross-polarization isolation [dB]	30 Typ.
Dimensions (H x W x L) [mm; inch]	100 x 100 x 160.5; 3.94 x 3.94 x 6.32	VSWR	1.7 Typ.
Weight (approx.) [kg; lb]	0.20; 0.441	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

Outline dimensions

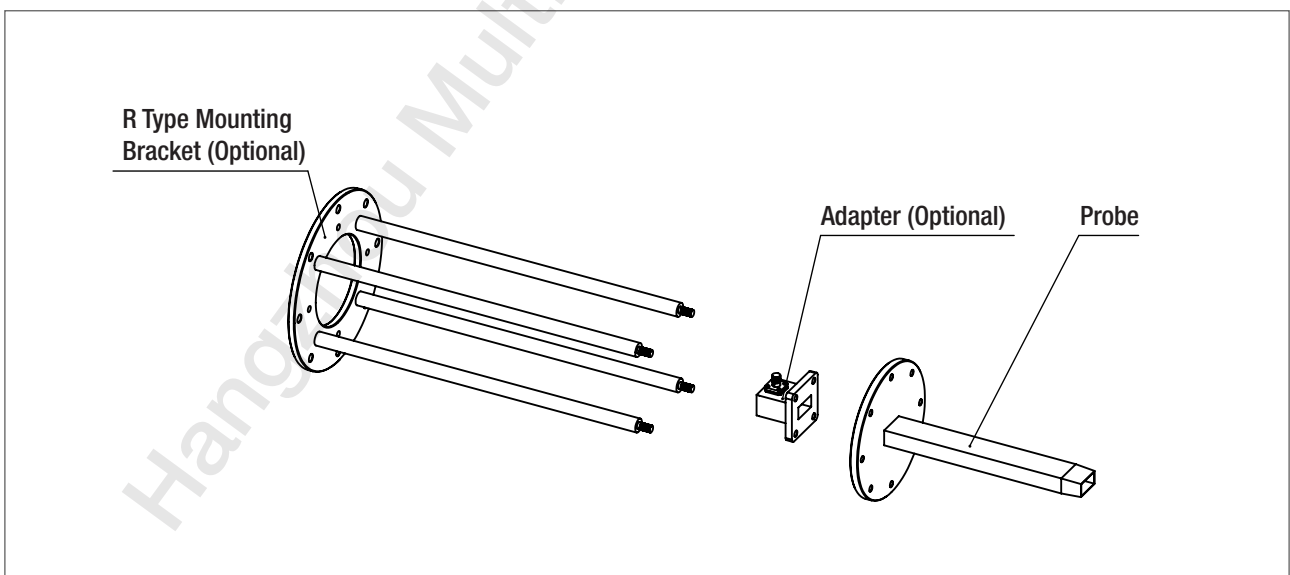
• Assembly dimensional drawing

Multipath Electronics provides complete Waveguide Probe Antennas, forming mounting systems, integrated with (optional) waveguide to coaxial adapters, L type and round mounting brackets. The following figure shows the disassembly diagram of such a system.

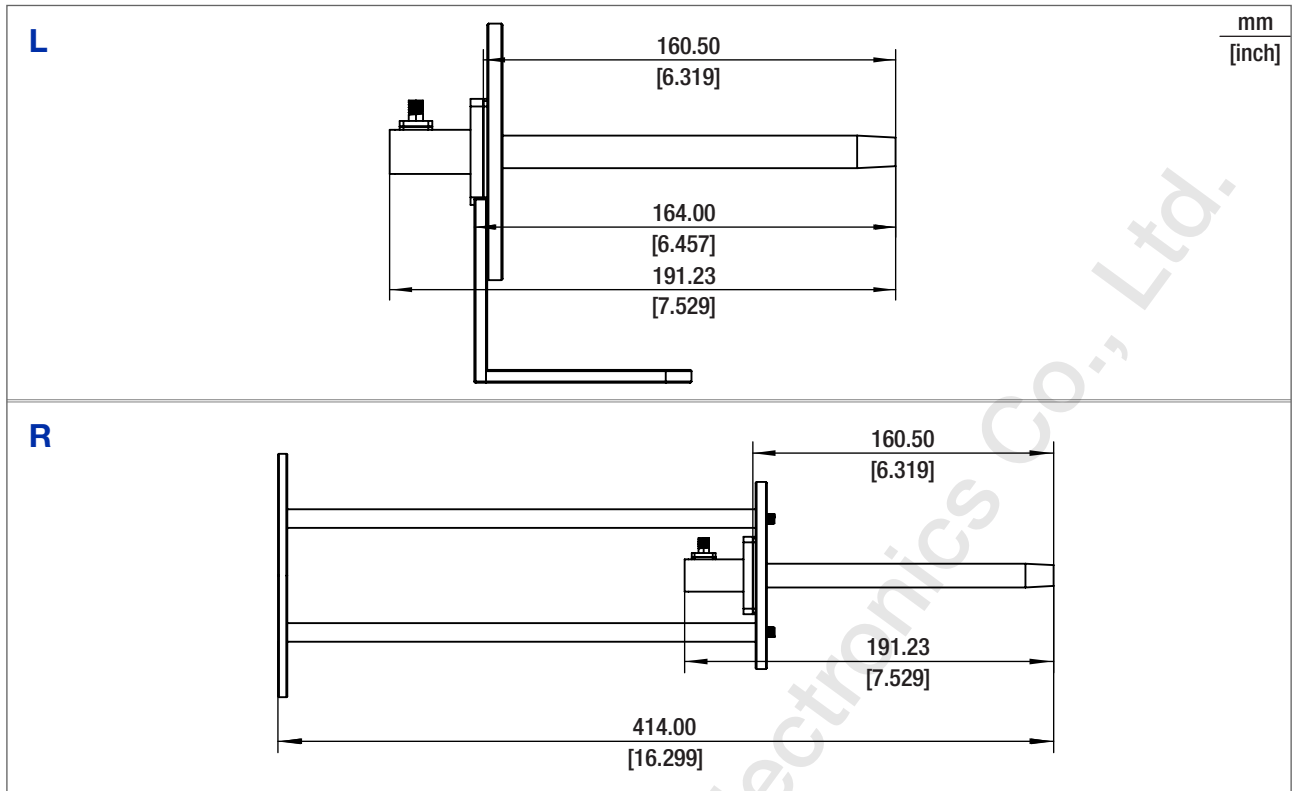
L_detector explosive body



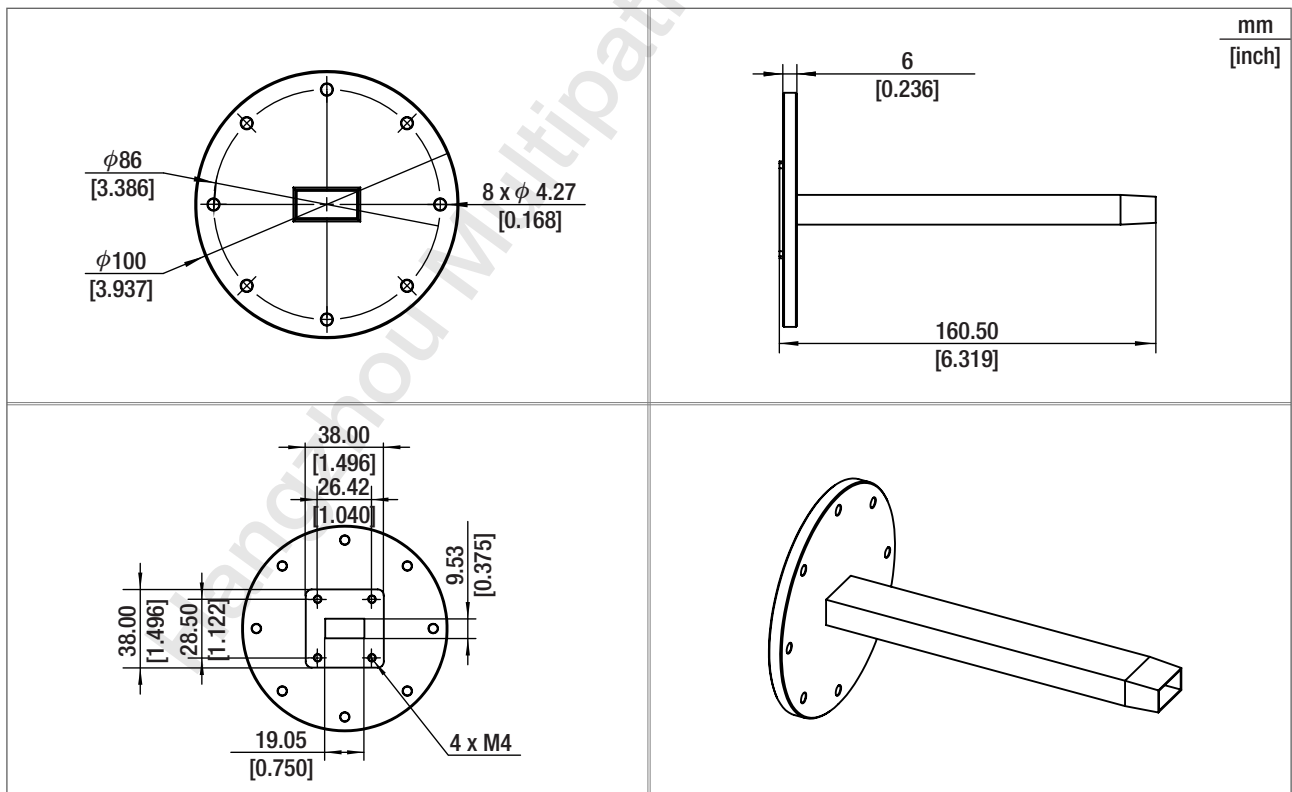
R_detector explosive body



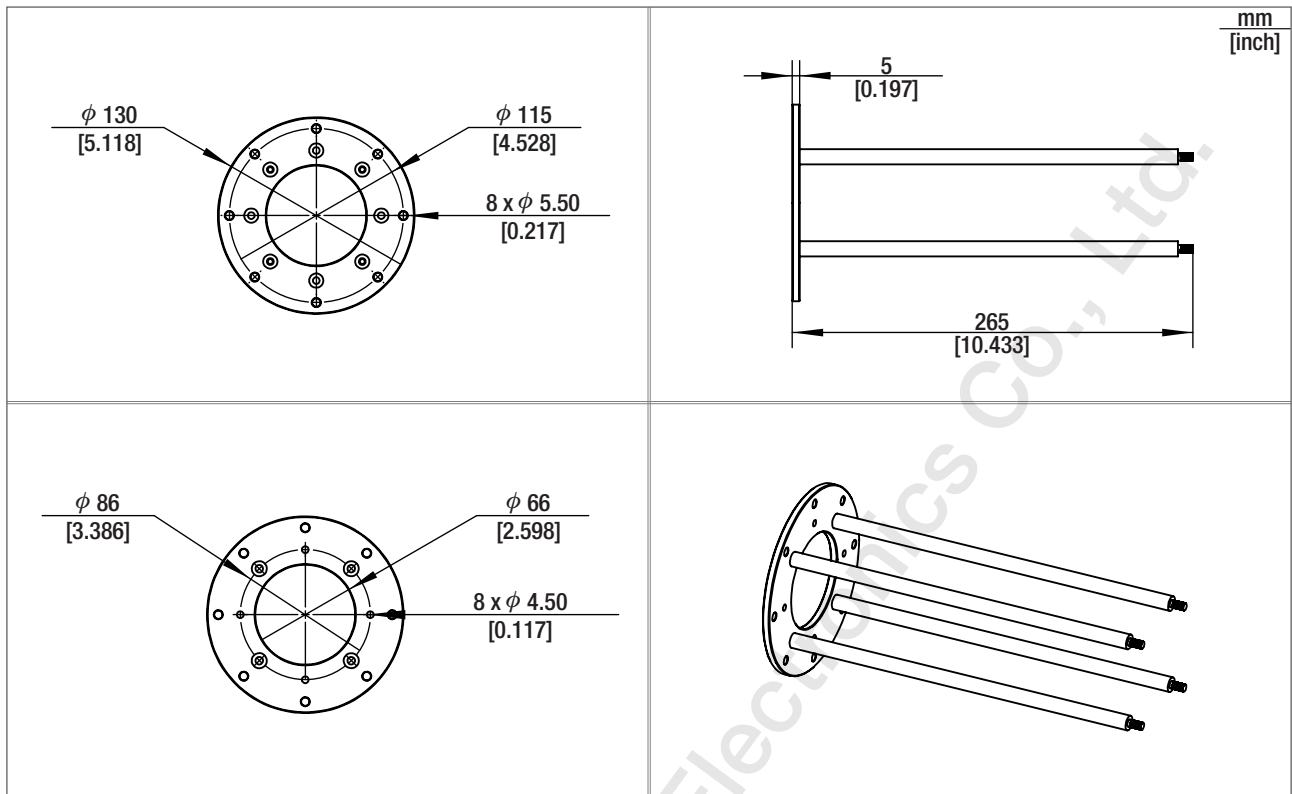
• Side view of the mounting system



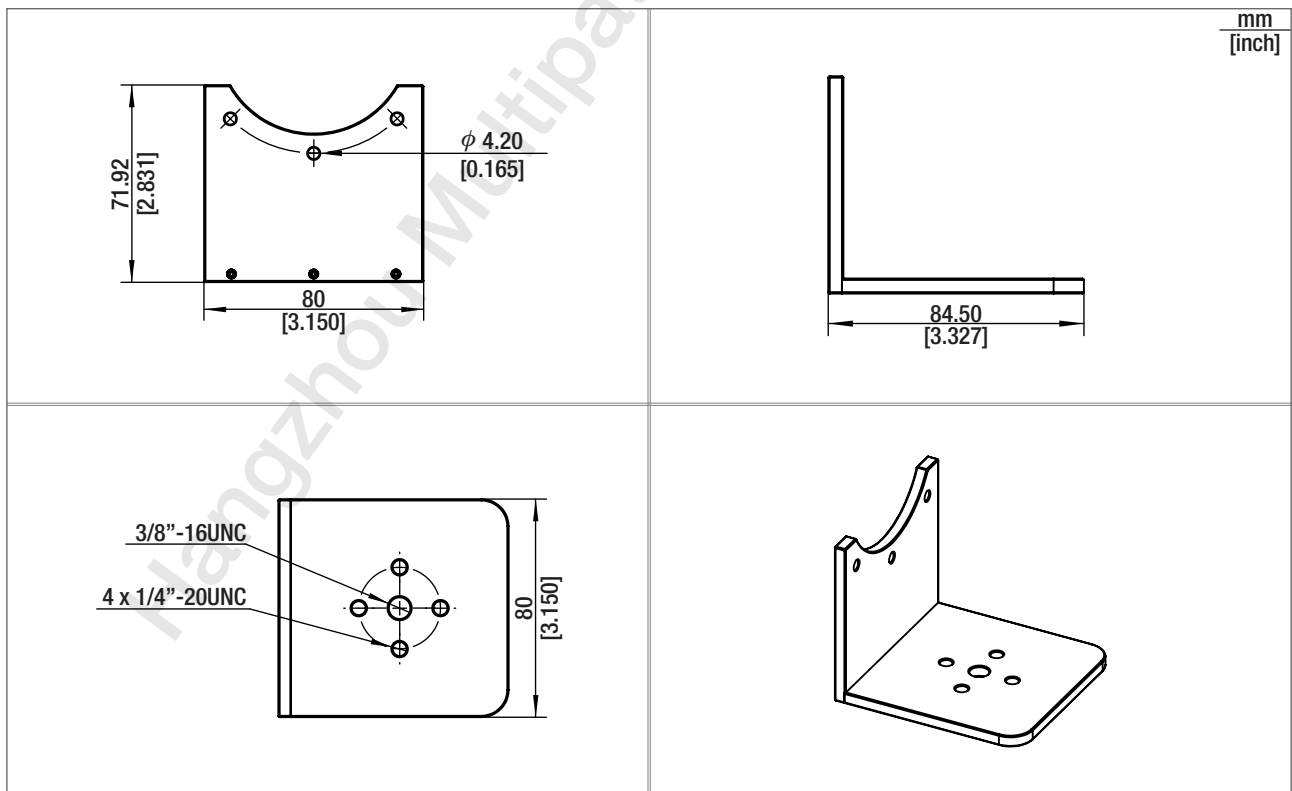
• Dimensional drawing: detectors, WP-WR75



• Dimensional drawing: round mounting bracket (Optional)

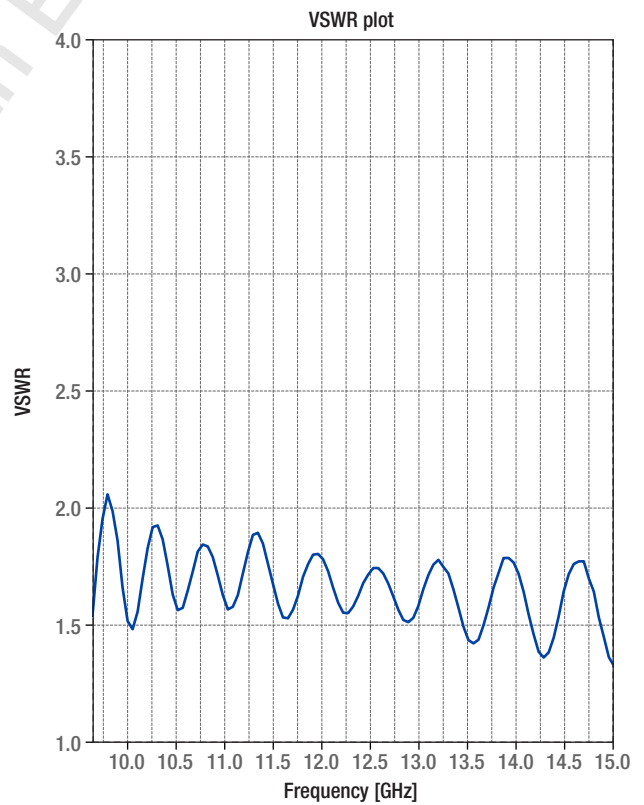
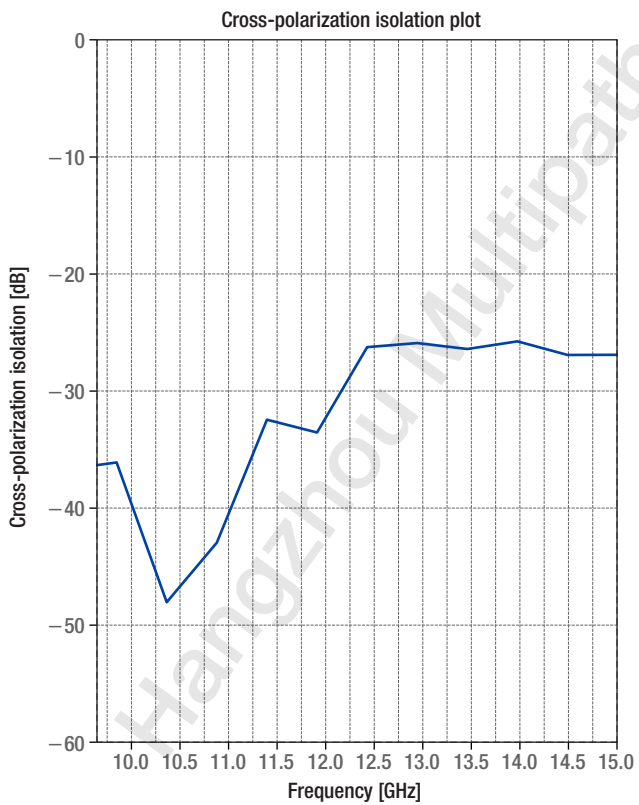
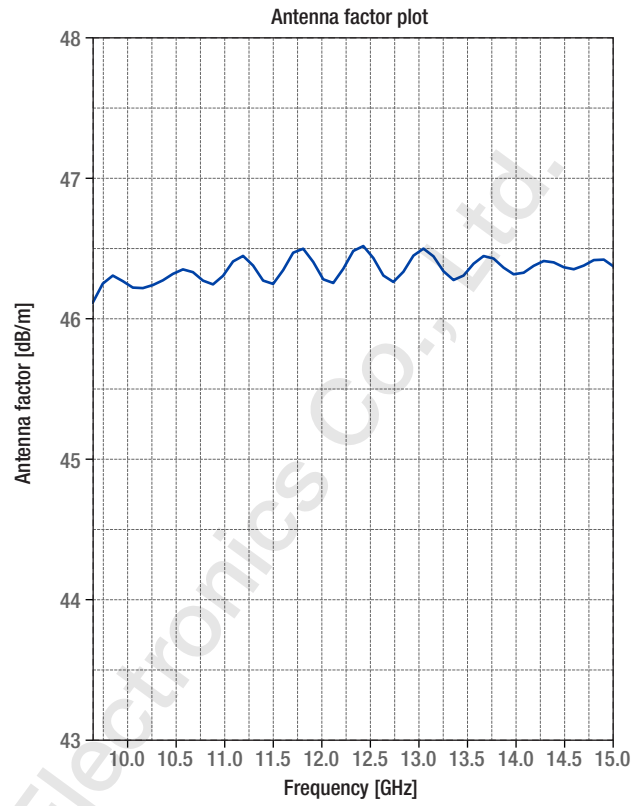
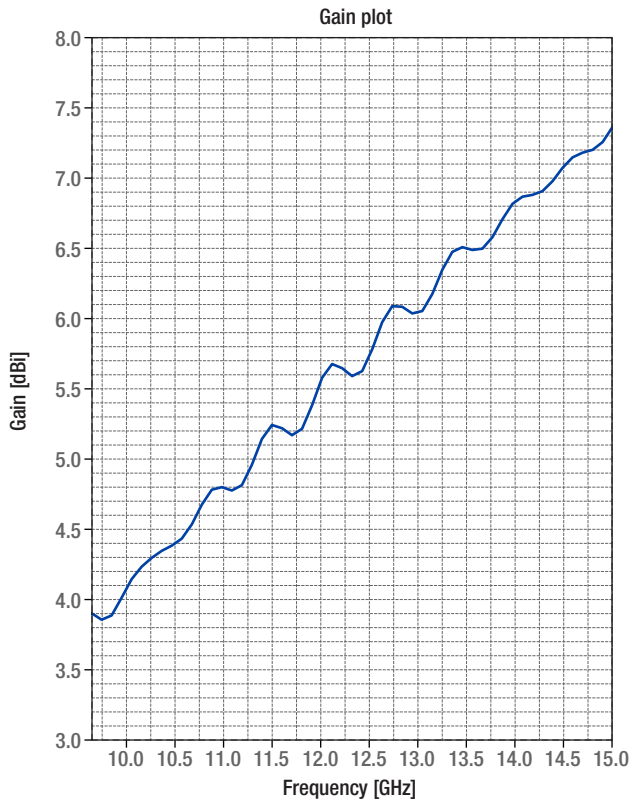


• Dimensional drawing: L type mounting bracket (Optional)



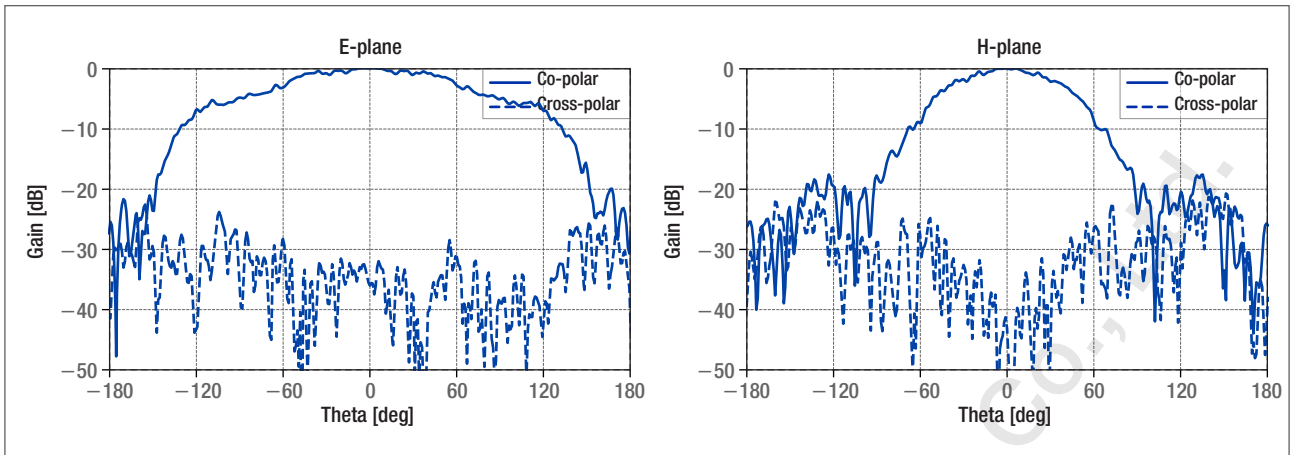
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

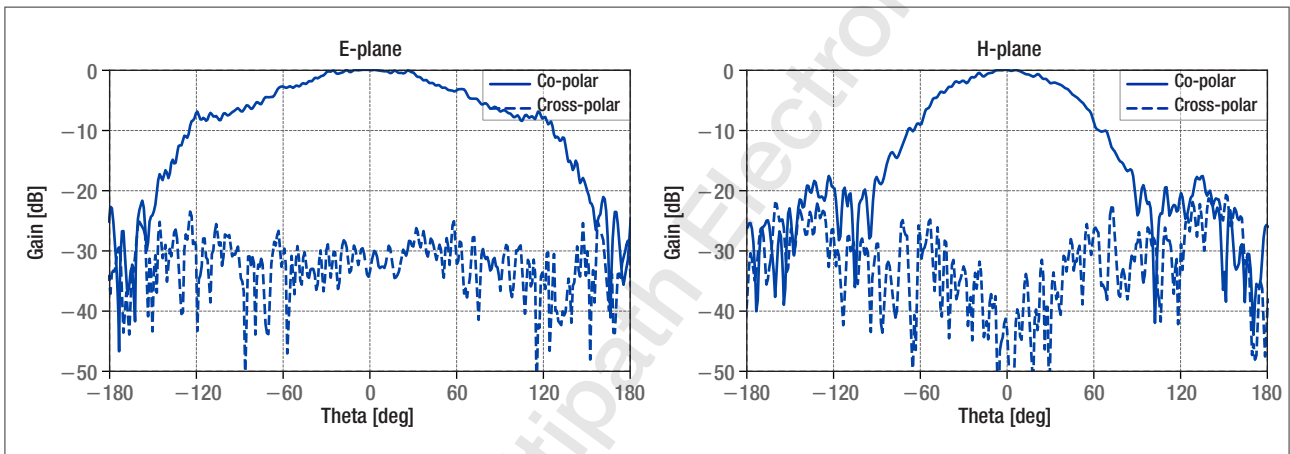


• Radiation patterns

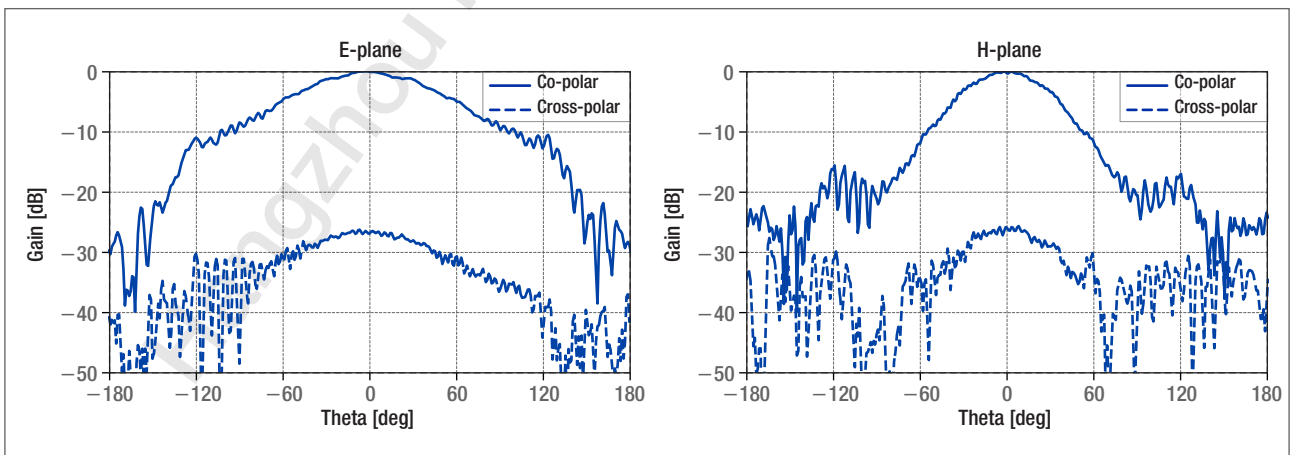
Patterns @ 10 GHz



Patterns @ 12 GHz



Patterns @ 15 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
10.0	3.90	46.29	-35.95	1.99
10.3	4.24	46.21	-43.13	1.70
10.6	4.39	46.31	-46.87	1.63
10.9	4.68	46.26	-43.74	1.84
11.2	4.78	46.39	-38.33	1.58
11.5	5.14	46.26	-31.78	1.85
11.8	5.17	46.46	-32.70	1.57
12.1	5.58	46.27	-31.87	1.78
12.4	5.59	46.47	-27.54	1.58
12.7	5.97	46.30	-25.93	1.72
13.0	6.03	46.44	-25.67	1.53
13.3	6.34	46.33	-24.20	1.75
13.6	6.48	46.38	-23.04	1.42
13.9	6.70	46.35	-22.49	1.79
14.2	6.87	46.36	-20.49	1.46
14.5	7.06	46.35	-17.77	1.64
14.8	7.19	46.40	-17.70	1.64

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
10	118.64°	80.77°
12	121.71°	62.04°
15	86.72°	57.23°



Multipath Electronics

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