

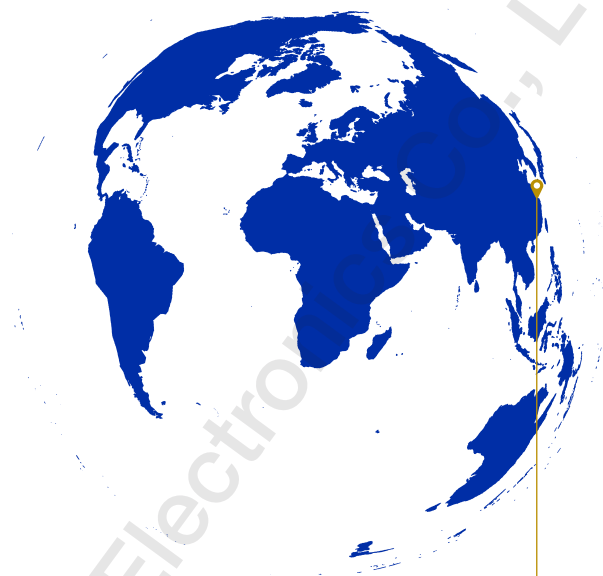


Waveguide Probe Antenna

60.5 - 91.9 GHz



QR code



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

⚙️ Product specifications

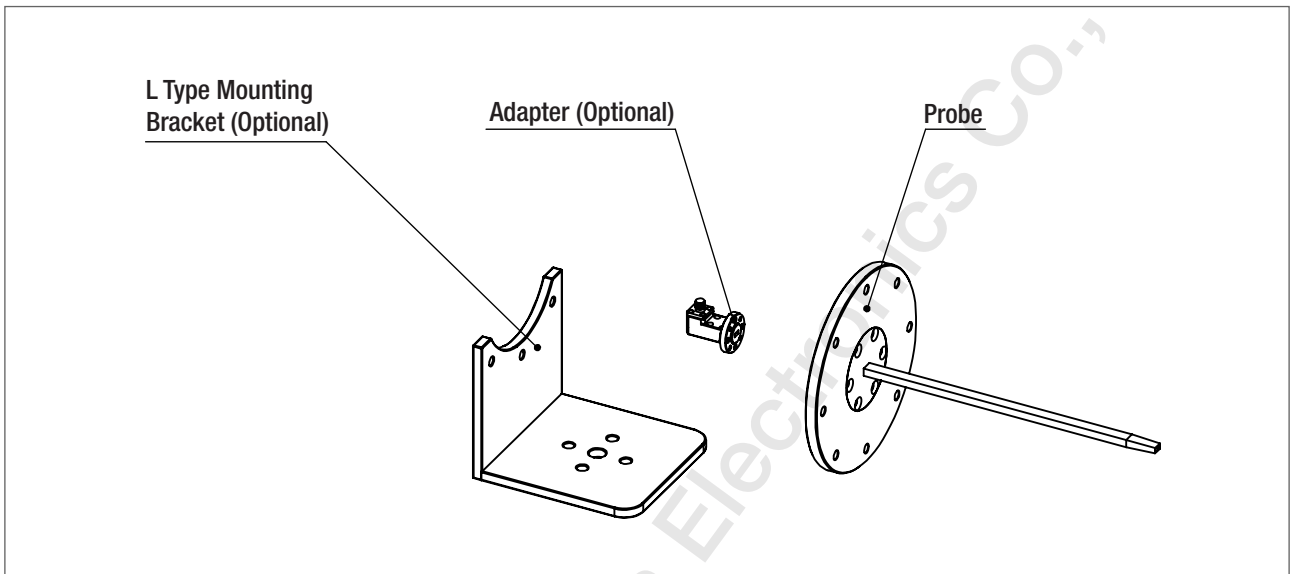
Part number	WP-WR12	Polarization	Single linear
Antenna type	Waveguide Probe Antenna	Gain [dBi]	6 Typ.
Frequency range [GHz]	60.5 – 91.9	3dB beamwidth [deg]	E-plane: 91 Typ. H-plane: 69 Typ.
Waveguide band	WR12	Cross-polarization isolation [dB]	40 Typ.
Dimensions (H x W x L) [mm; inch]	100 x 100 x 161.26; 3.94 x 3.94 x 6.35	VSWR	1.7 Typ.
Weight (approx.) [kg; lb]	0.19; 0.418	Impedance [Ohms]	50
Material	Cu (Gold plated)	RF connector	1.0-Female

Outline dimensions

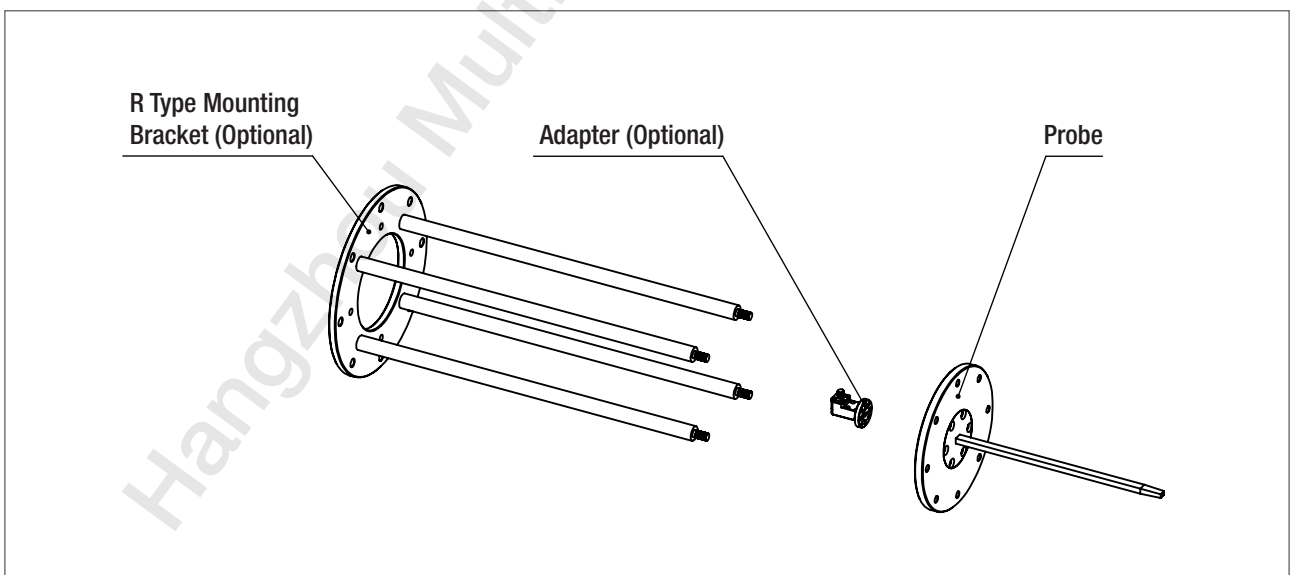
• Assembly dimensional drawing

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.

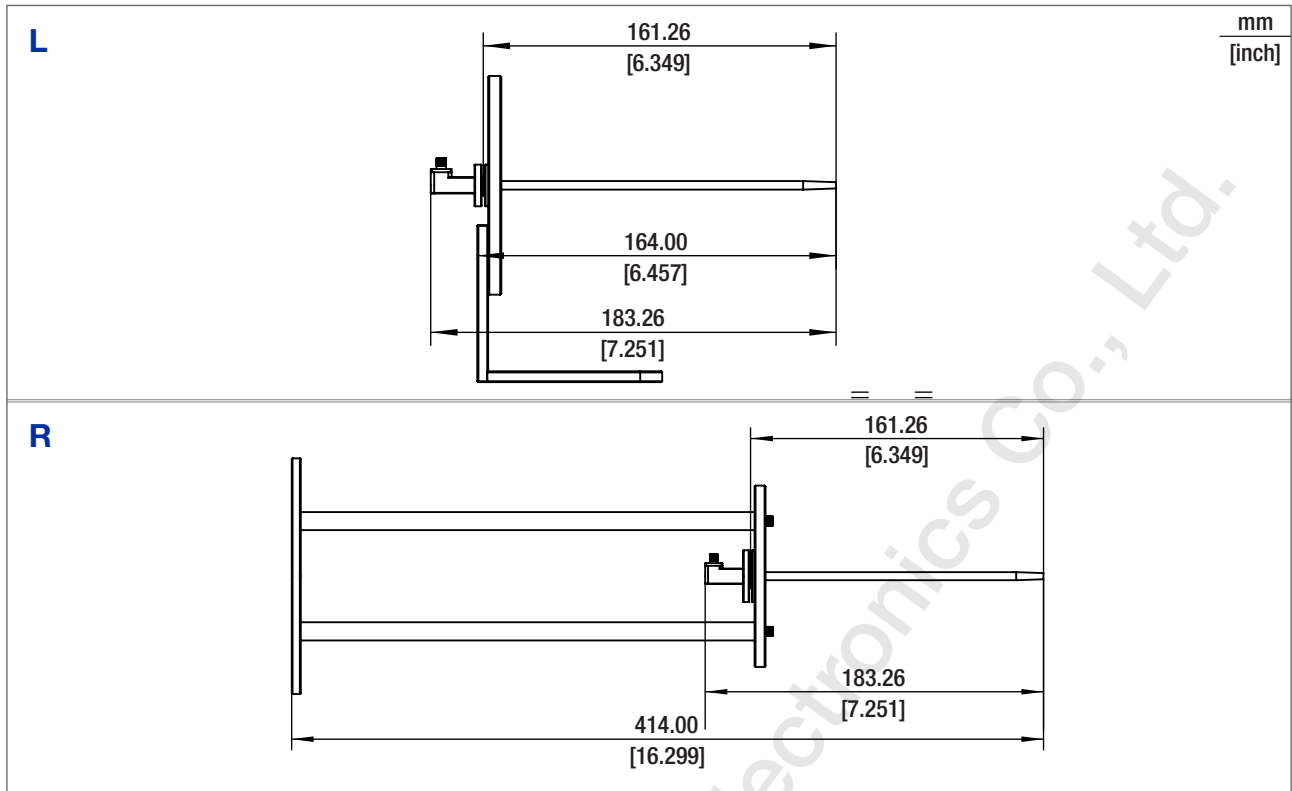
L_detector explosive body



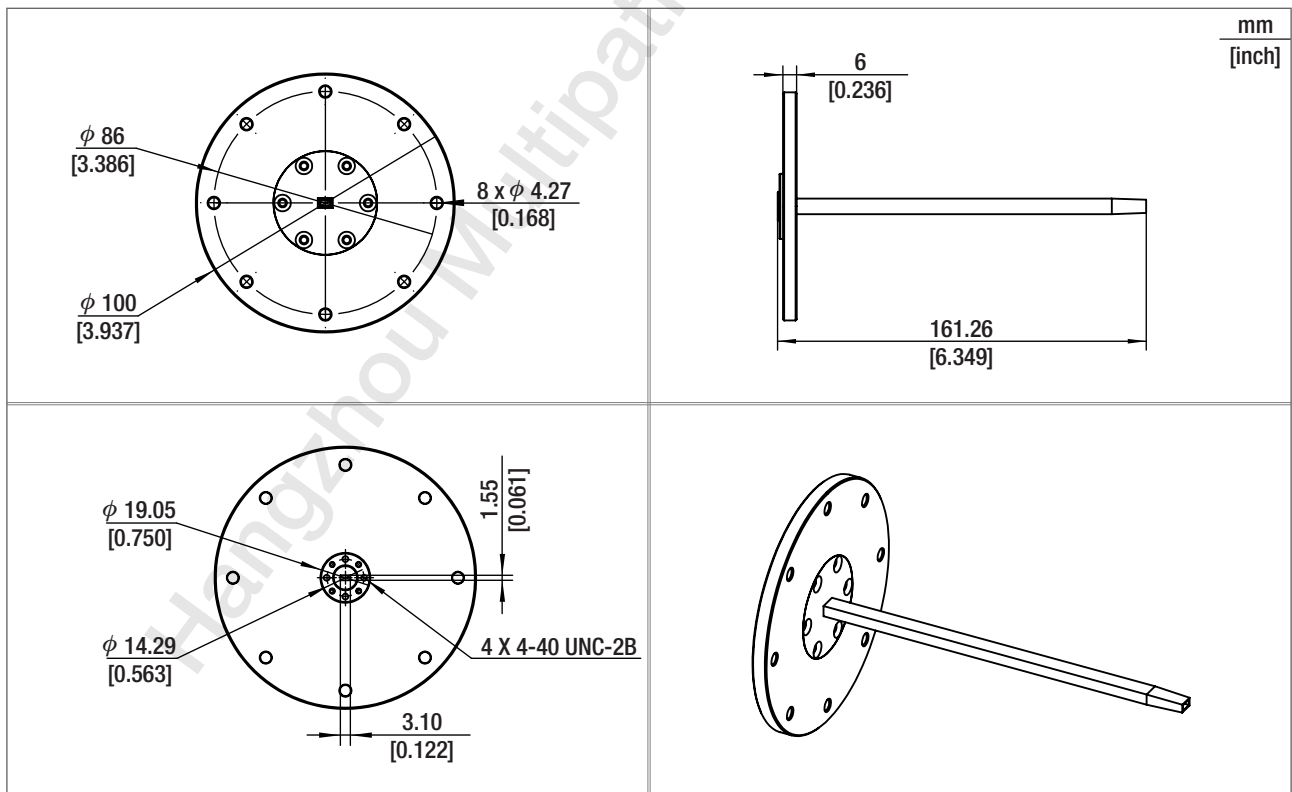
R_detector explosive body



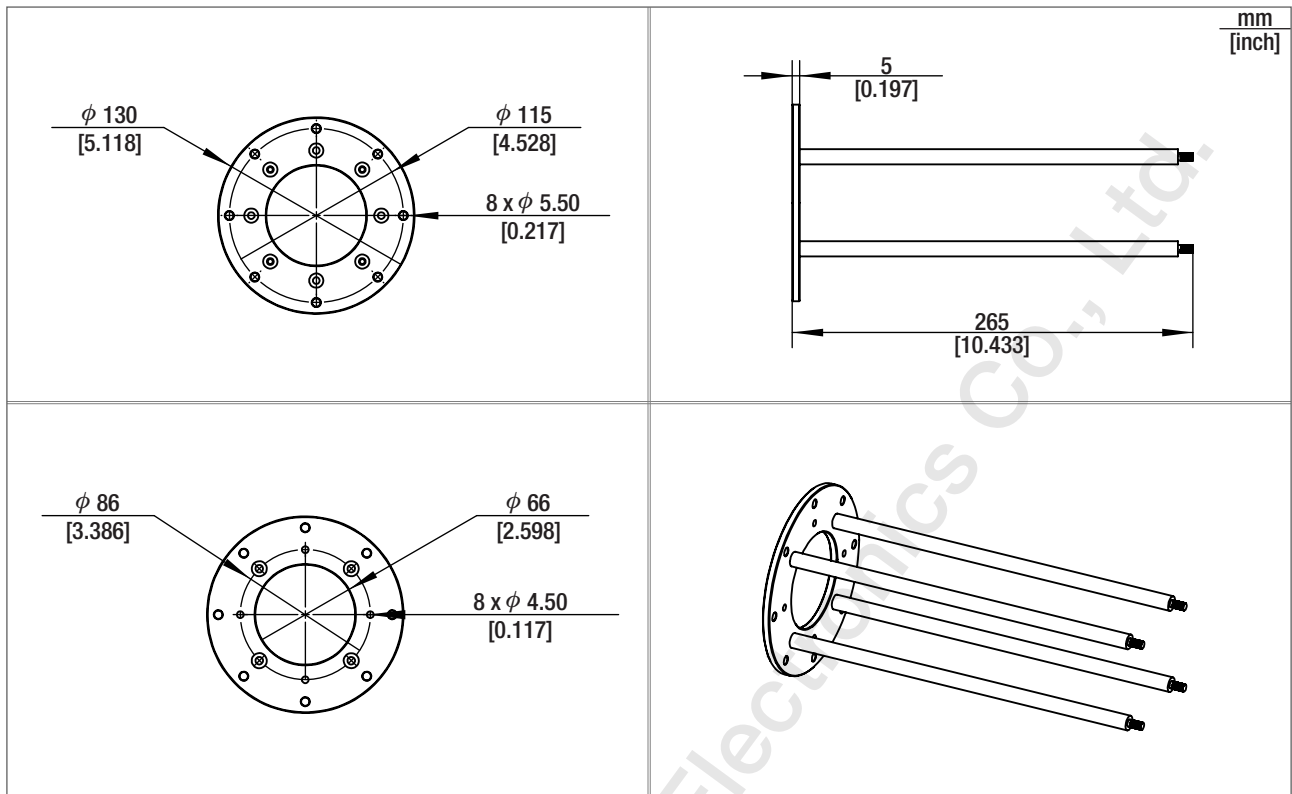
• Side view of the mounting system



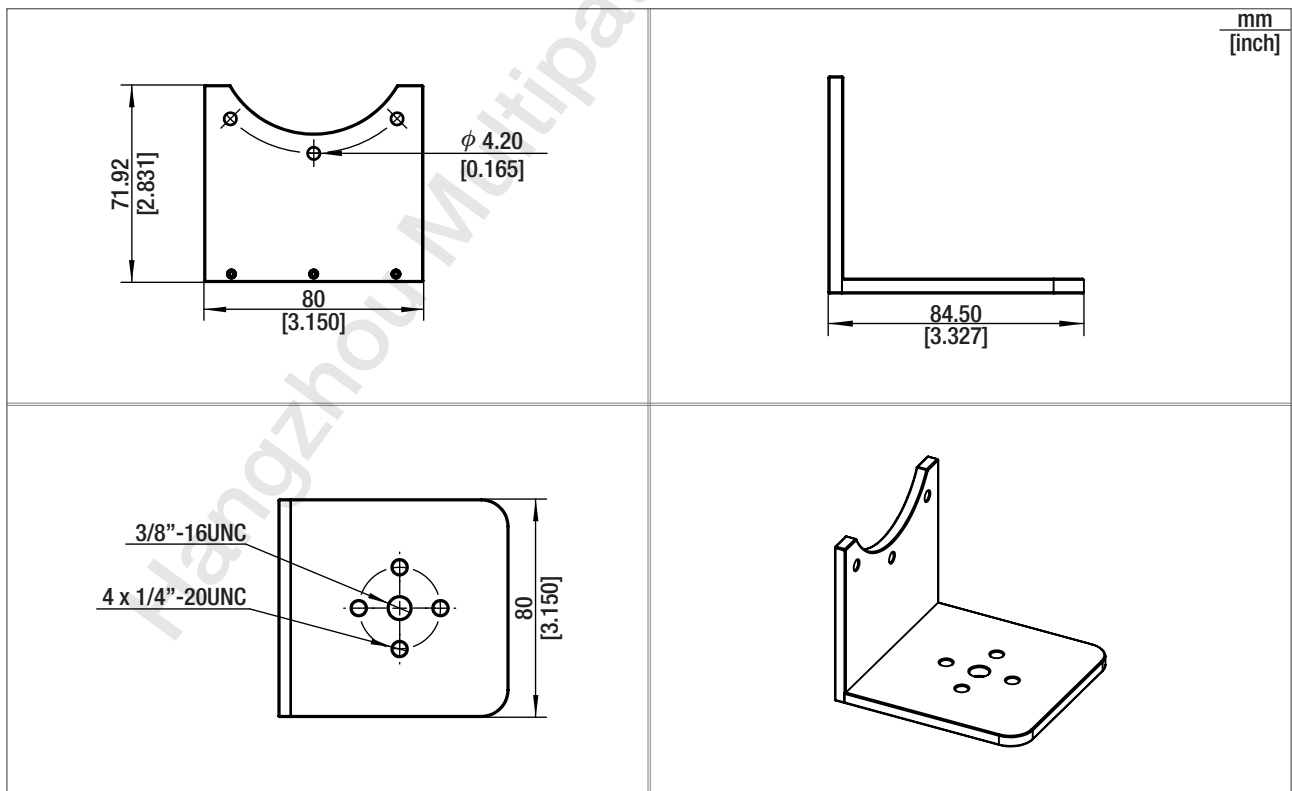
• Dimensional drawing: detectors, WP-WR12



• Dimensional drawing: round mounting bracket (Optional)

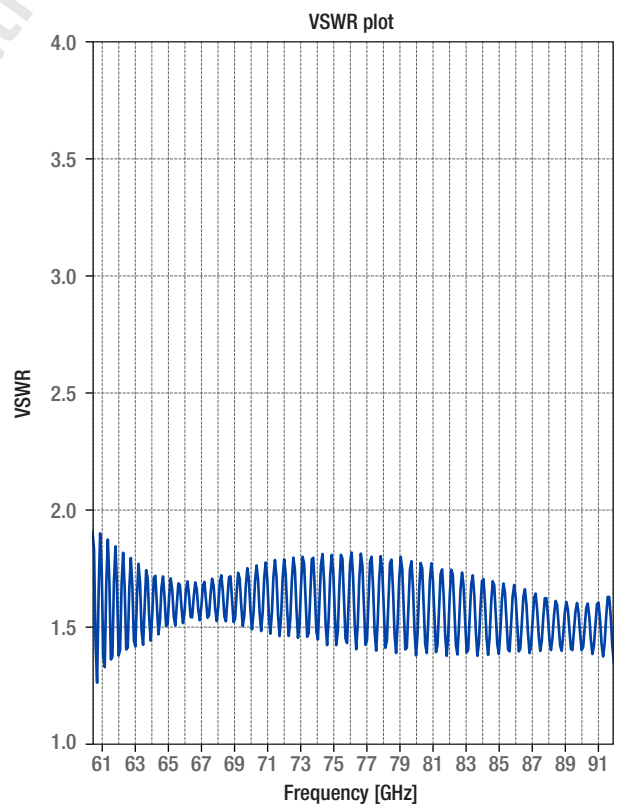
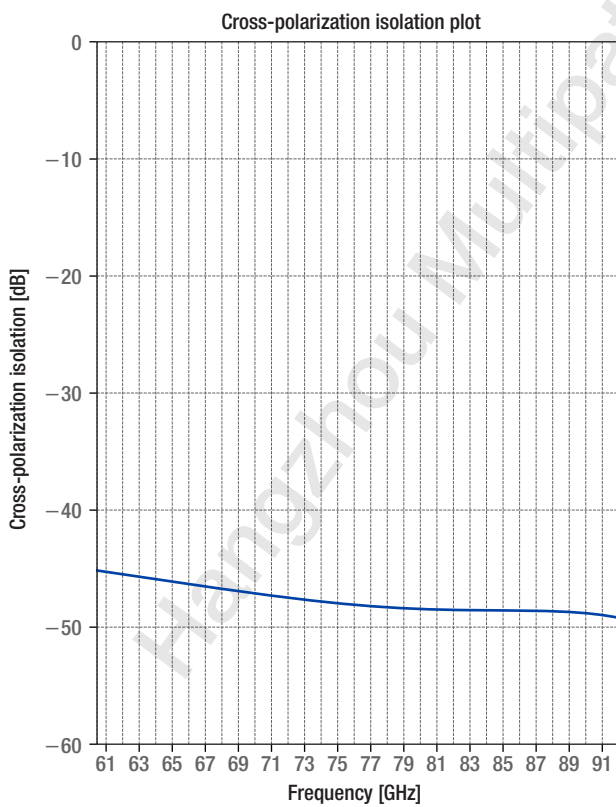
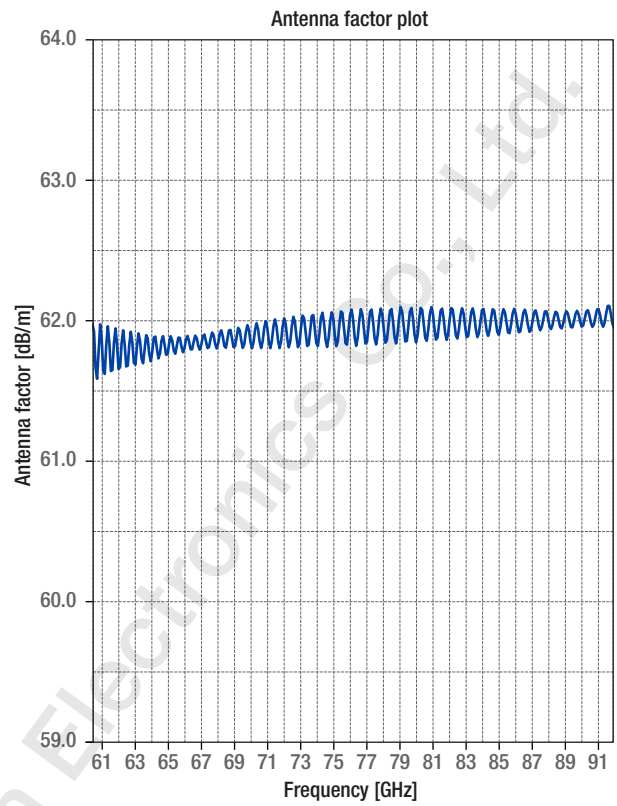
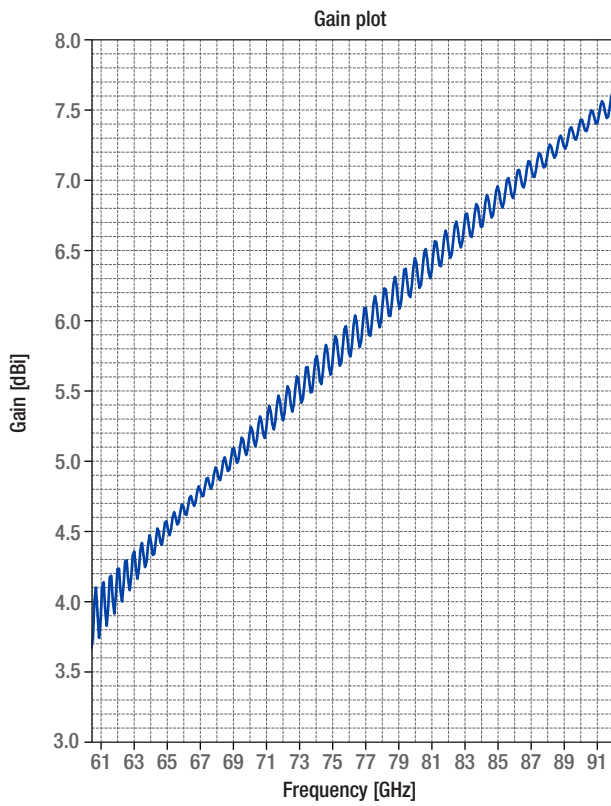


• Dimensional drawing: L type mounting bracket (Optional)



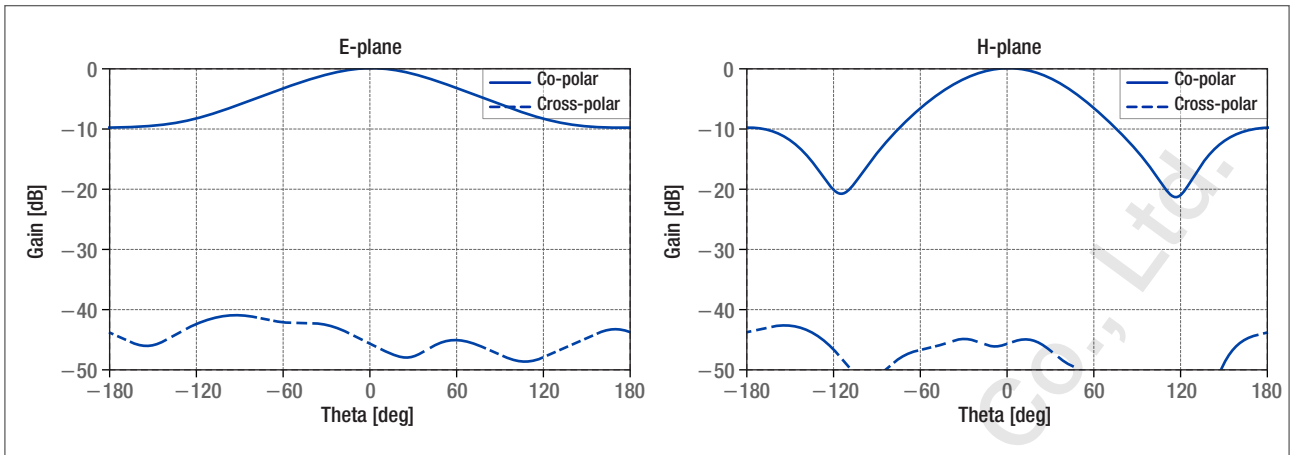
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

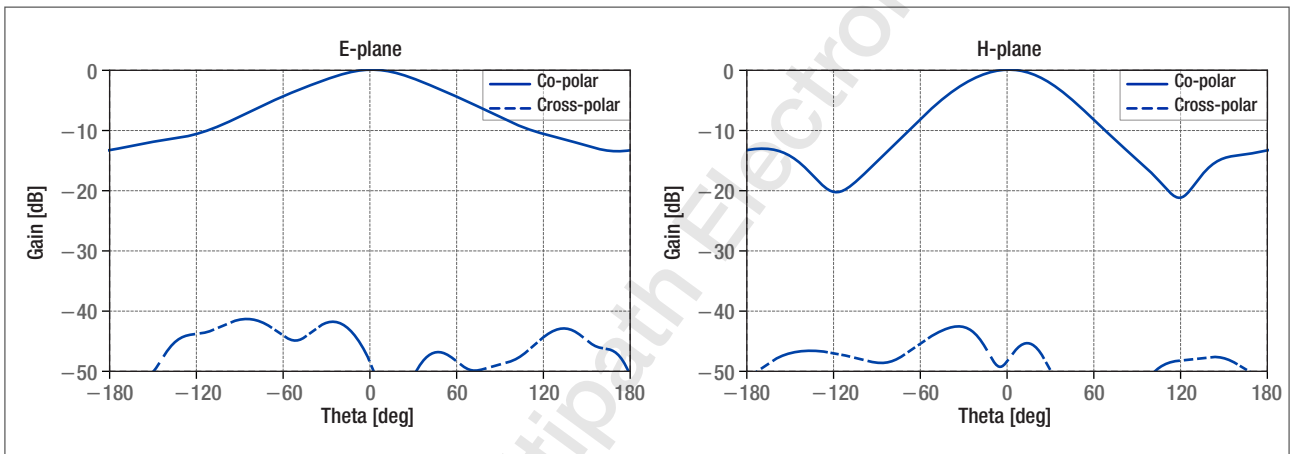


• Radiation patterns

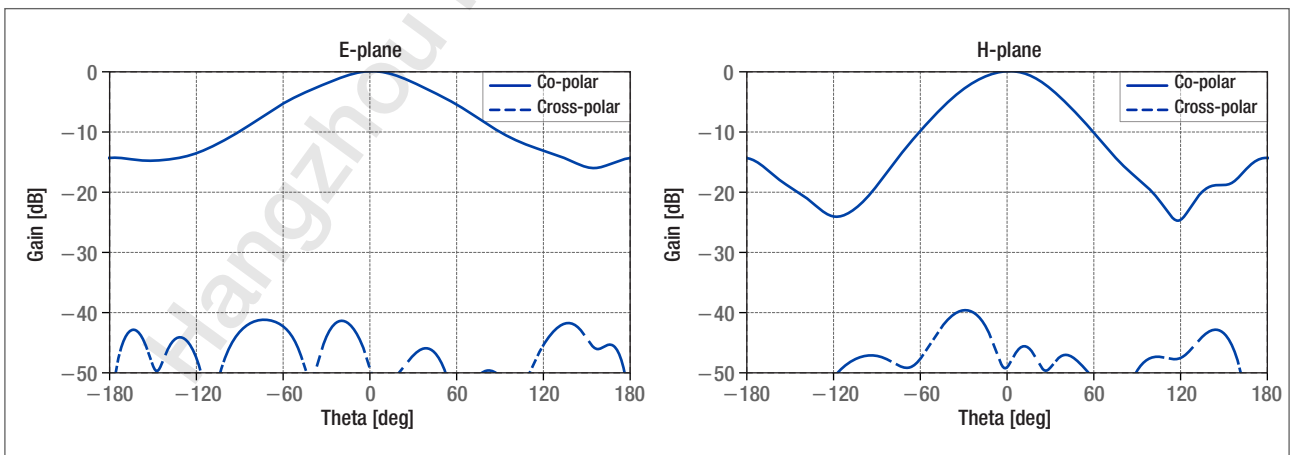
Patterns @ 60 GHz



Patterns @ 75 GHz



Patterns @ 90 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
61	3.98	61.92	-45.73	1.80
63	4.31	61.86	-46.12	1.70
65	4.66	61.79	-46.50	1.55
67	4.89	61.82	-46.88	1.57
69	5.07	61.90	-47.25	1.66
71	5.27	61.95	-47.59	1.70
73	5.65	61.80	-47.91	1.44
75	5.85	61.84	-48.18	1.47
77	5.98	61.94	-48.41	1.61
79	6.13	62.01	-48.57	1.69
81	6.33	62.03	-48.68	1.69
83	6.55	62.02	-48.74	1.65
85	6.77	62.01	-48.76	1.59
87	7.01	61.97	-48.78	1.51
89	7.22	61.95	-48.84	1.44
91	7.42	61.95	-49.01	1.40

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
60	112.47°	79.07°
75	91.44°	68.63°
90	79.48°	60.77°



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