

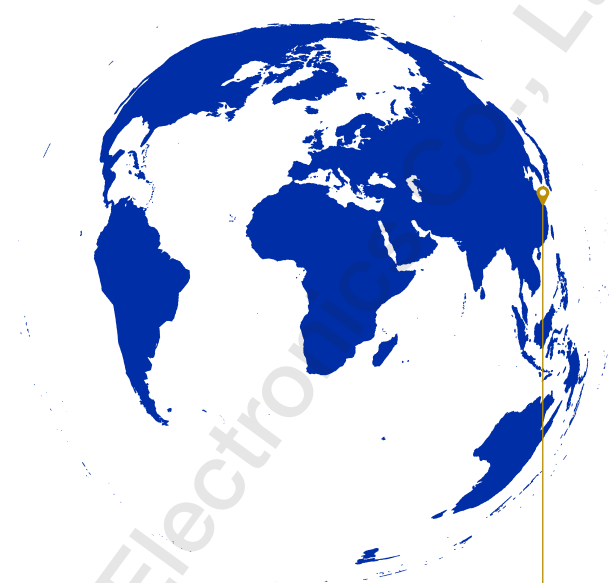


Waveguide Probe Antenna

26.3 - 40.0 GHz



QR code



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

⚙️ Product specifications

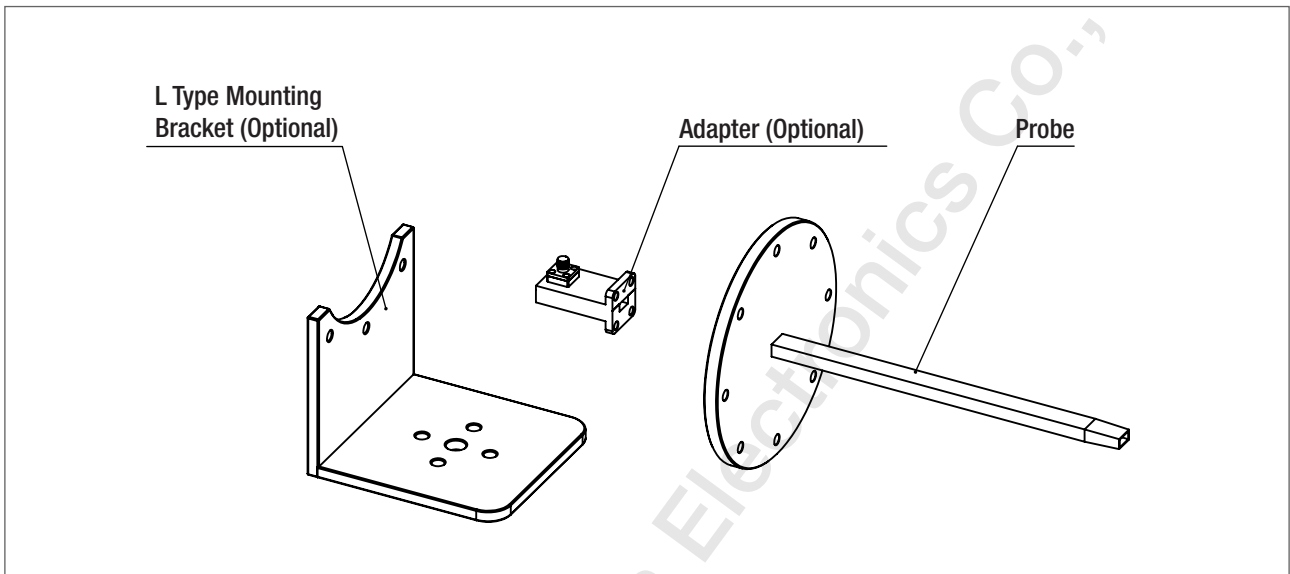
Part number	WP-WR28	Polarization	Single linear
Antenna type	Waveguide Probe Antenna	Gain [dBi]	5 Typ.
Frequency range [GHz]	26.3 – 40.0	3dB beamwidth [deg]	E-plane: 93 Typ. H-plane: 58 Typ.
Waveguide band	WR28	Cross-polarization isolation [dB]	30 Typ.
Dimensions (H x W x L) [mm; inch]	100 x 100 x 160.5; 3.94 x 3.94 x 6.32	VSWR	1.6 Typ.
Weight (approx.) [kg; lb]	0.16; 0.353	Impedance [Ohms]	50
Material	Aluminum	RF connector	2.4-Female

Outline dimensions

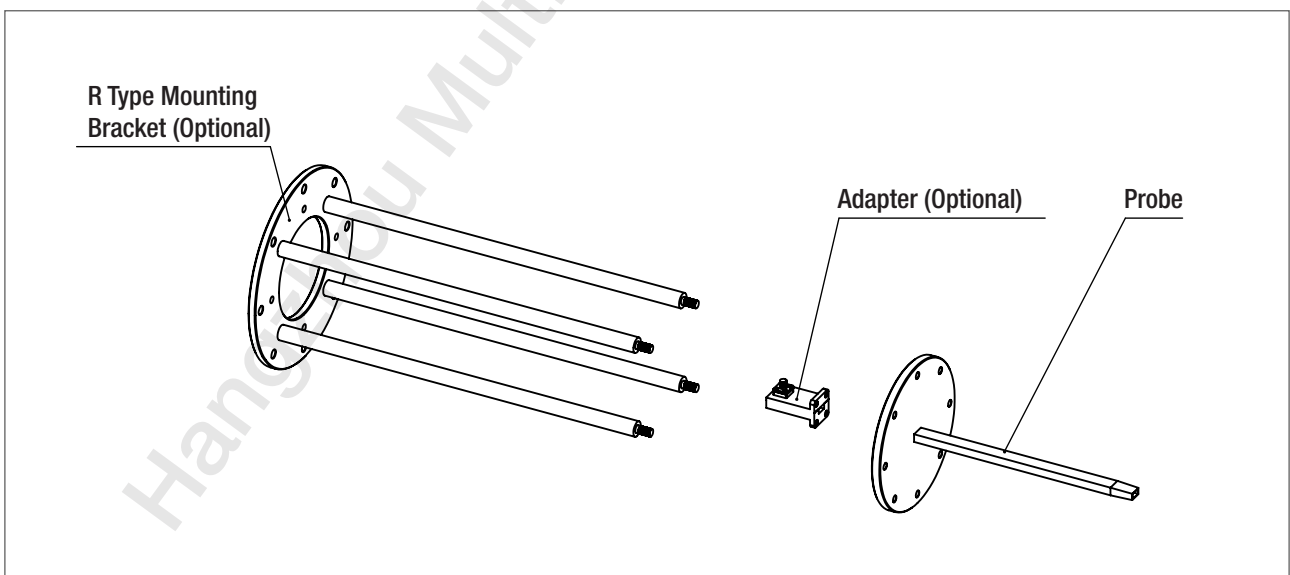
• Assembly dimensional drawing

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.

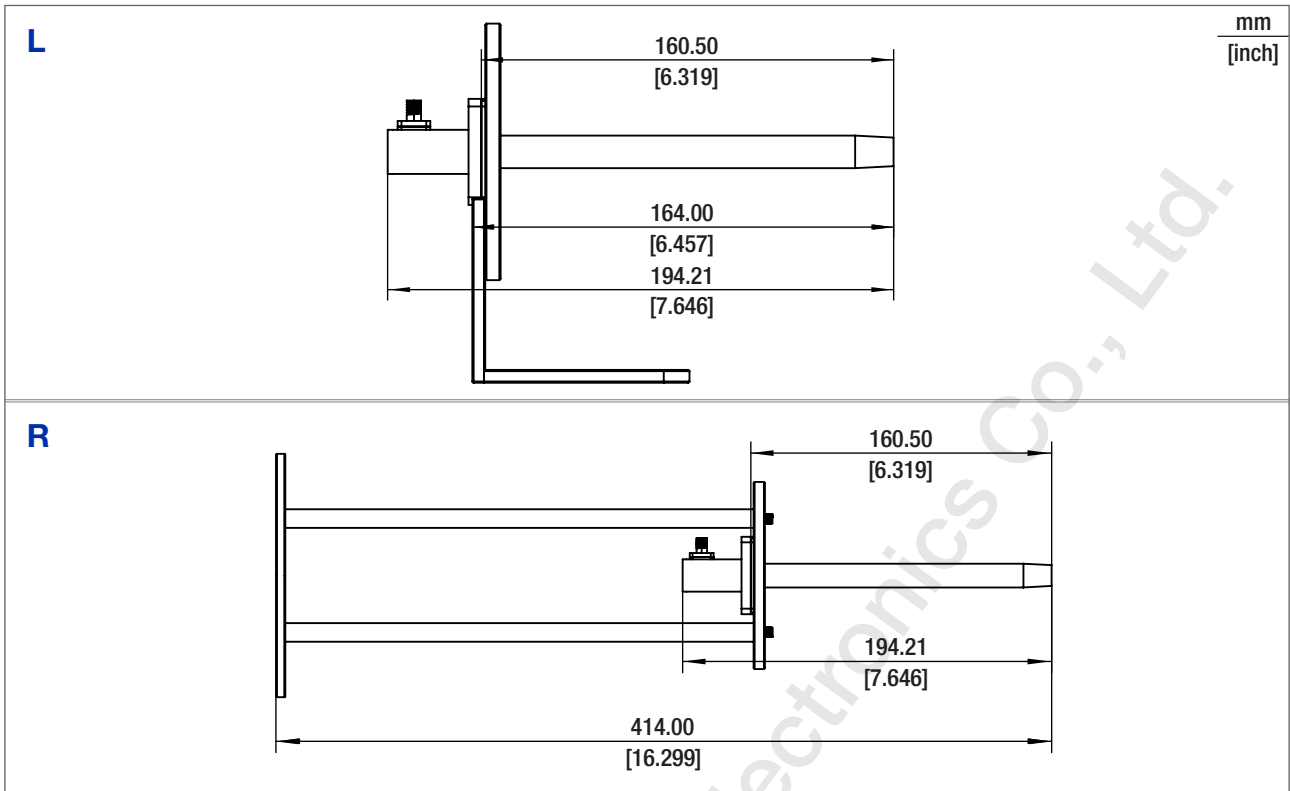
L_detector explosive body



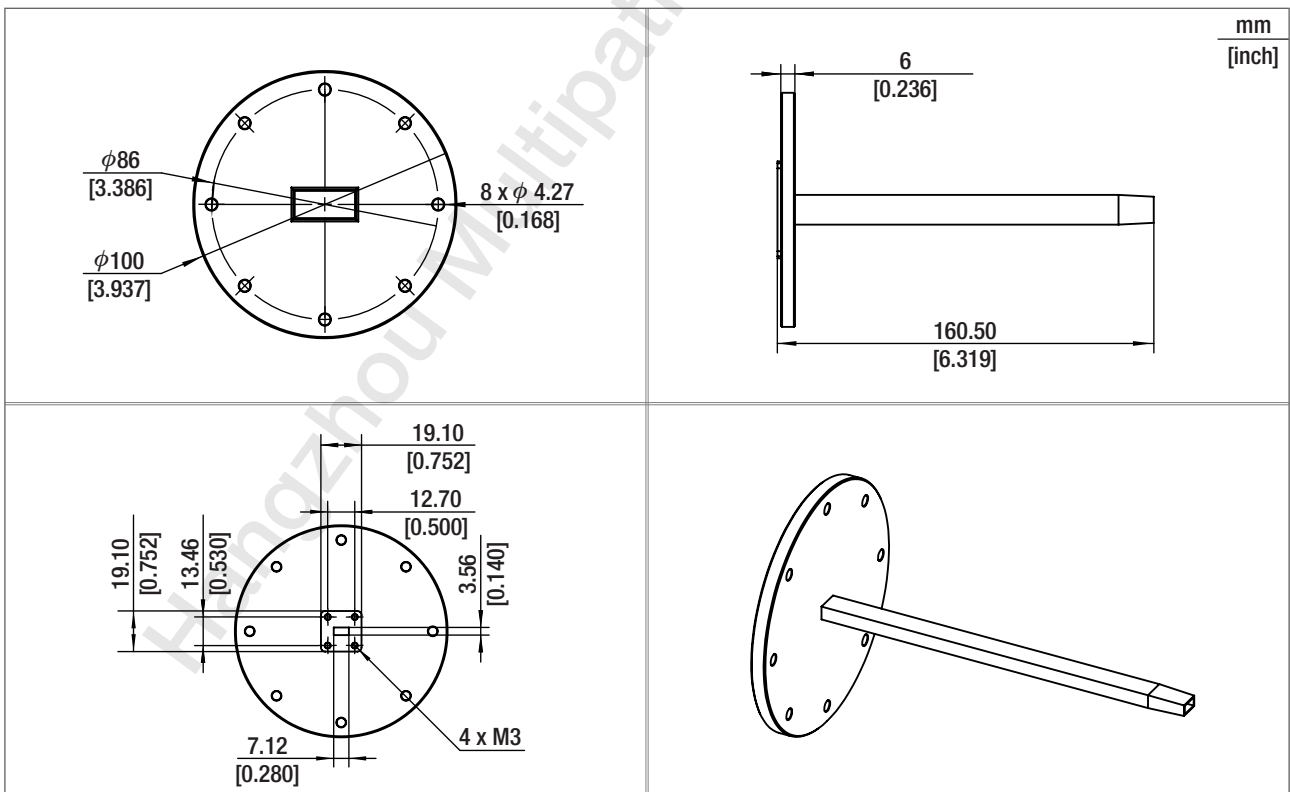
R_detector explosive body



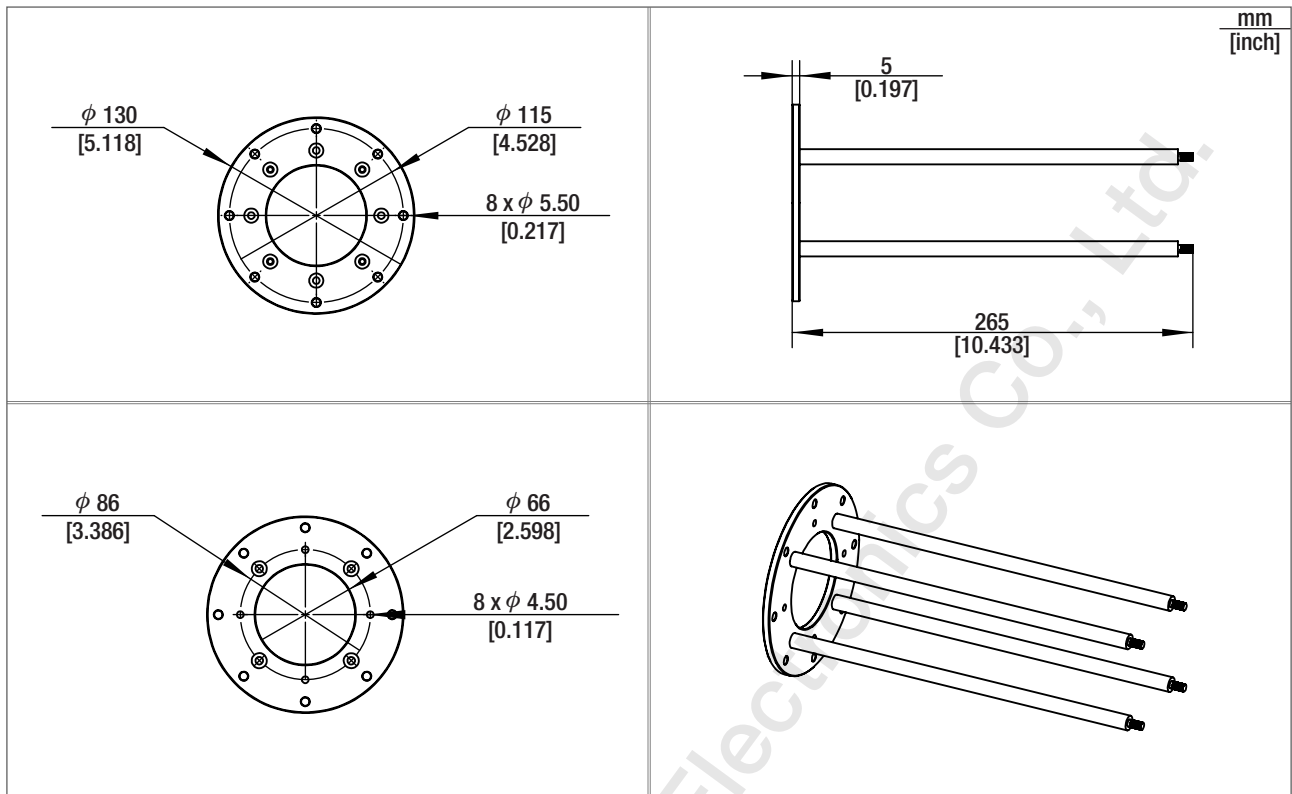
• Side view of the mounting system



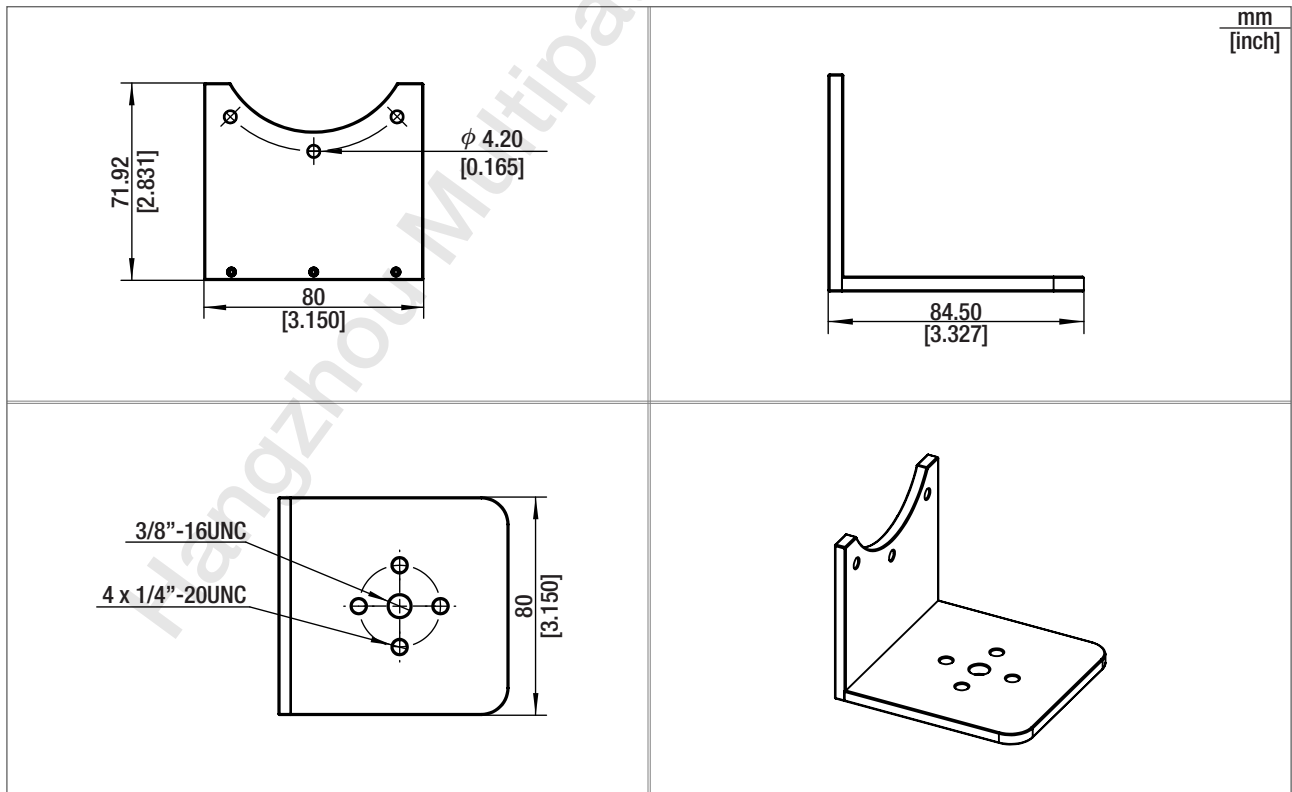
• Dimensional drawing: detectors, WP-WR28



• Dimensional drawing: round mounting bracket (Optional)

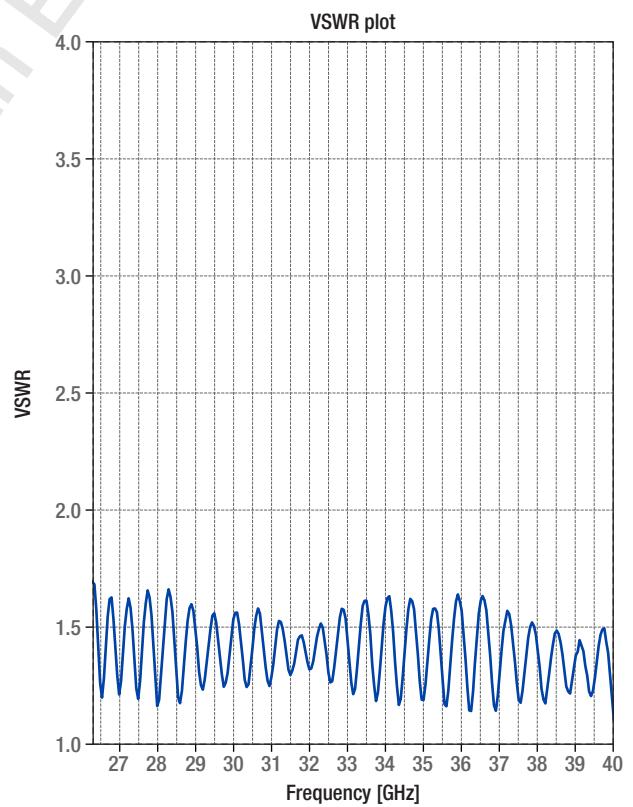
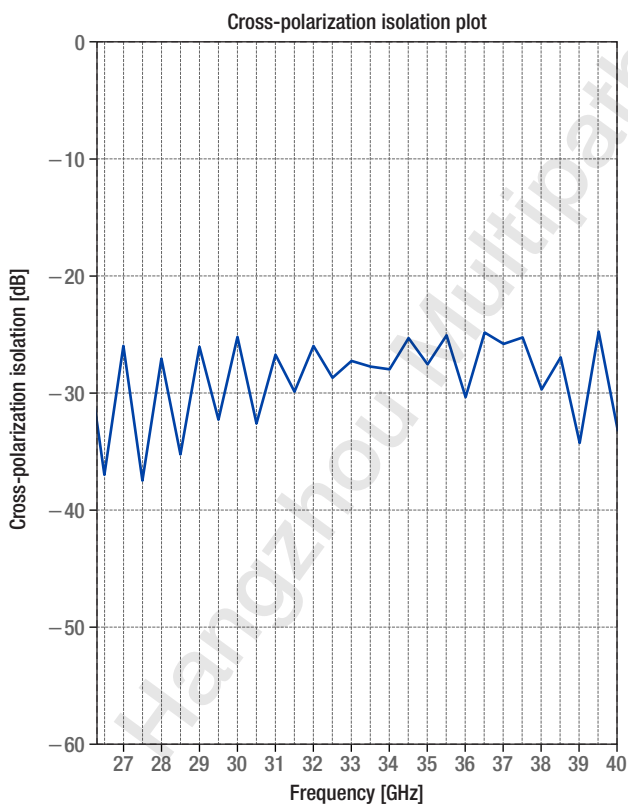
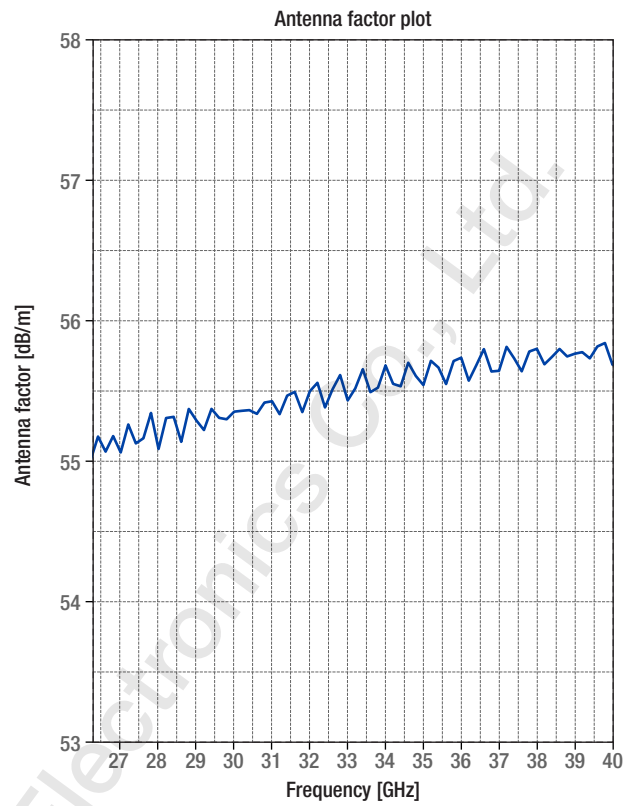
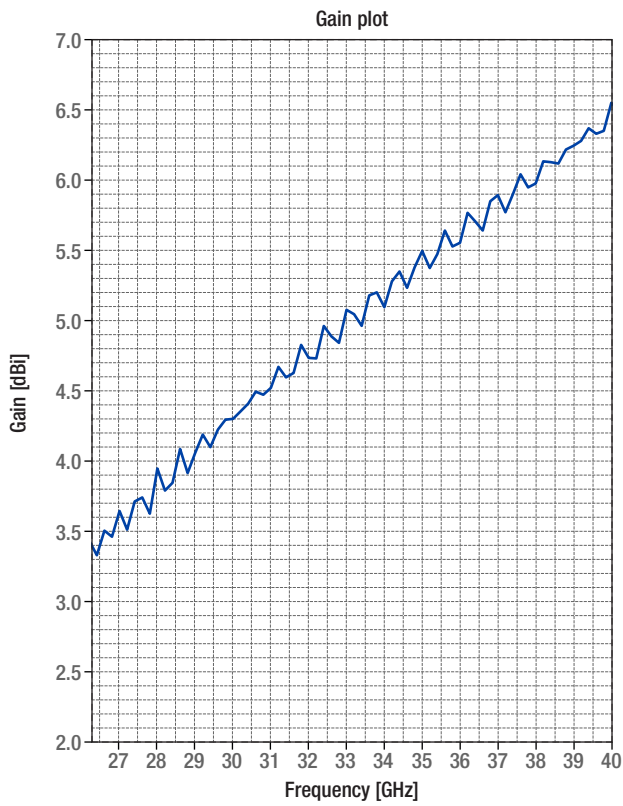


• Dimensional drawing: L type mounting bracket (Optional)



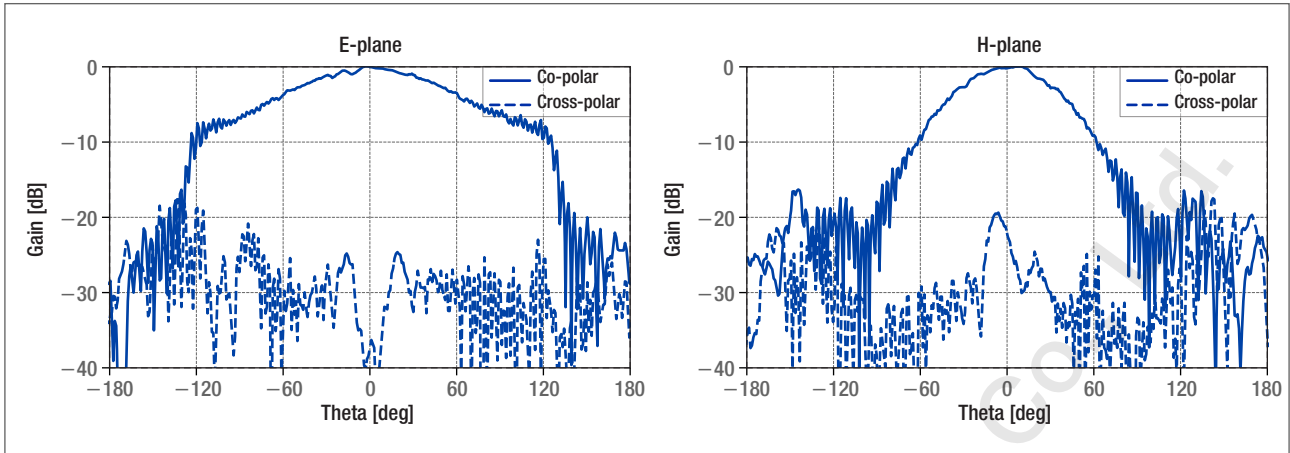
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

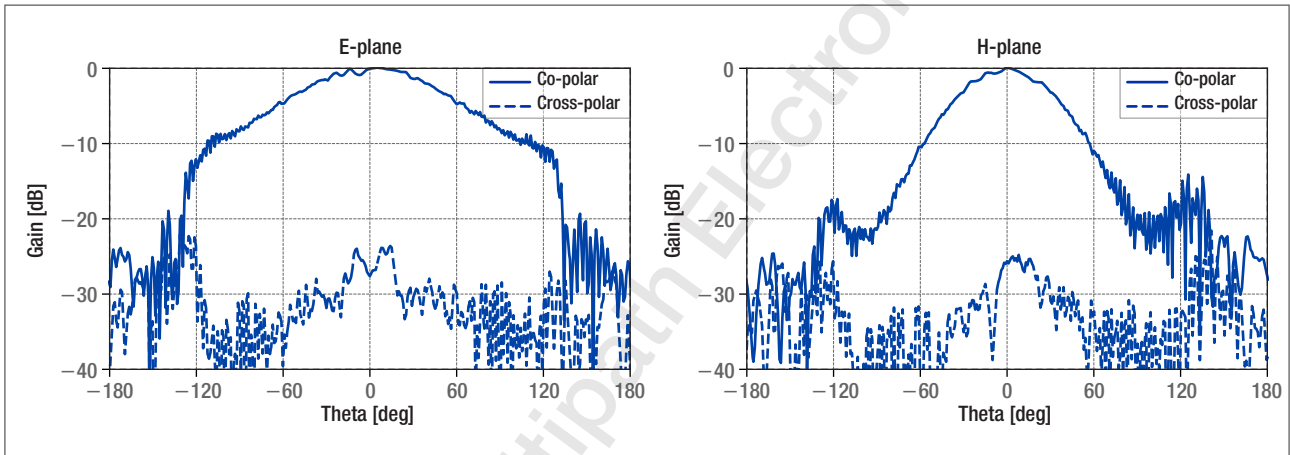


• Radiation patterns

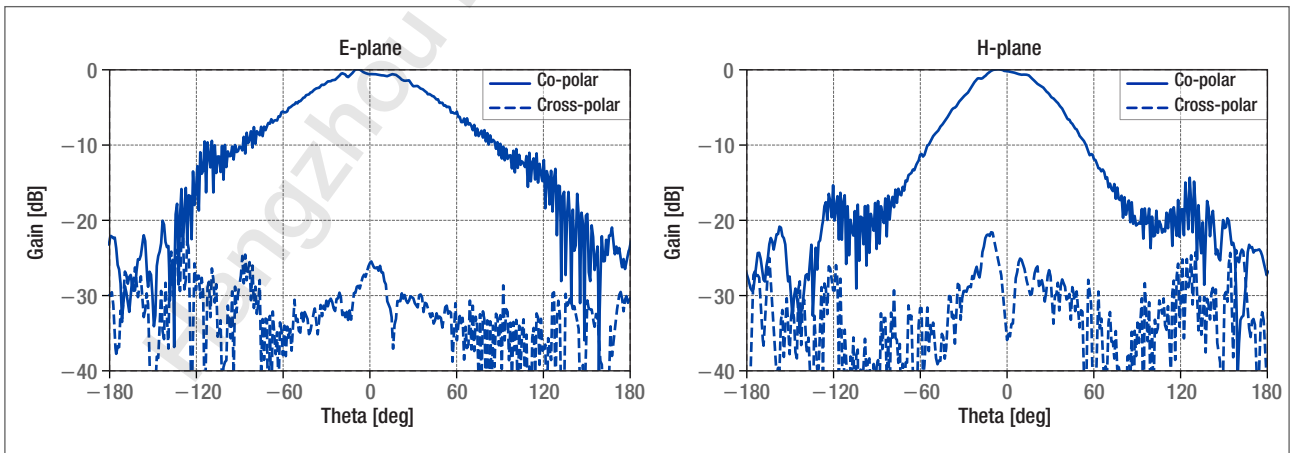
Patterns @ 26.5 GHz



Patterns @ 33.0 GHz



Patterns @ 39.5 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
26.5	3.52	55.14	-36.64	1.26
27.0	3.74	55.08	-26.05	1.21
27.5	3.82	55.16	-37.12	1.19
28.0	4.03	55.10	-27.10	1.16
28.5	4.05	55.24	-34.97	1.32
29.0	4.14	55.30	-26.12	1.50
29.5	4.24	55.35	-32.11	1.56
30.0	4.37	55.36	-25.31	1.53
30.5	4.52	55.36	-32.43	1.40
31.0	4.58	55.43	-26.78	1.28
31.5	4.67	55.48	-29.81	1.29
32.0	4.79	55.50	-26.06	1.32
32.5	4.97	55.45	-28.67	1.30
33.0	5.12	55.44	-27.29	1.44
33.5	5.12	55.58	-27.75	1.61
34.0	5.14	55.68	-27.97	1.59
34.5	5.33	55.62	-25.41	1.39
35.0	5.53	55.55	-27.57	1.19
35.5	5.59	55.61	-25.18	1.27
36.0	5.58	55.73	-30.26	1.57
36.5	5.70	55.74	-24.95	1.61
37.0	5.91	55.64	-25.89	1.31
37.5	5.99	55.68	-25.36	1.19
38.0	5.99	55.79	-29.63	1.40
38.5	6.13	55.77	-26.99	1.48
39.0	6.25	55.76	-34.02	1.38

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
26.5	112.92°	60.00°
33.0	93.21°	58.29°
39.5	79.72°	54.84°



Multipath Electronics

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Technical specifications in this datasheet are subject to change without notice. Actual products may differ from the shown images.