

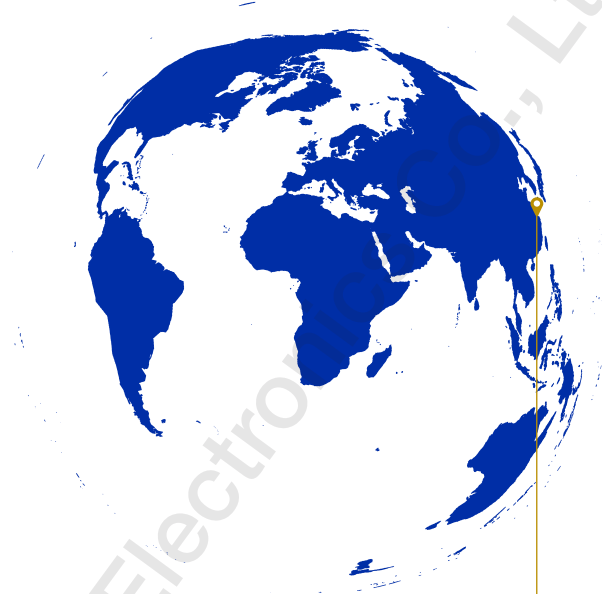


Waveguide Probe Antenna

11.9 - 18.0 GHz



QR code



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

⚙️ Product specifications

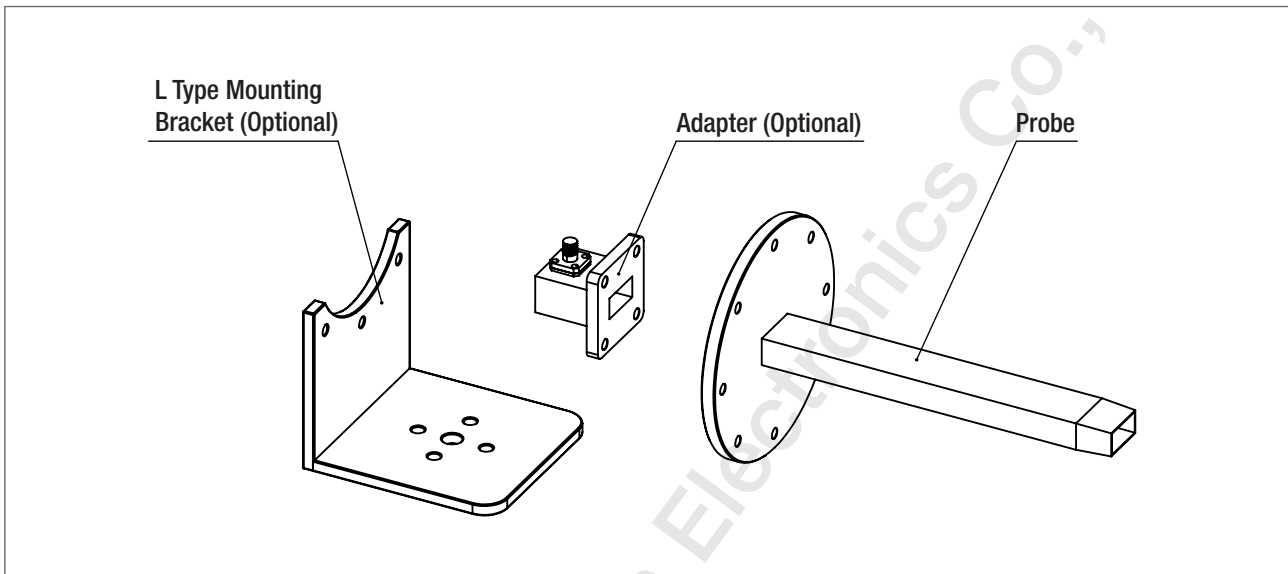
Part number	WP-WR62	Polarization	Single linear
Antenna type	Waveguide Probe Antenna	Gain [dBi]	6 Typ.
Frequency range [GHz]	11.9 – 18.0	3dB beamwidth [deg]	E-plane: 97 Typ. H-plane: 63 Typ.
Waveguide band	WR62	Cross-polarization isolation [dB]	30 Typ.
Dimensions (H x W x L) [mm; inch]	100 x 100 x 160.5; 3.94 x 3.94 x 6.32	VSWR	1.8 Typ.
Weight (approx.) [kg; lb]	0.19; 0.419	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

Outline dimensions

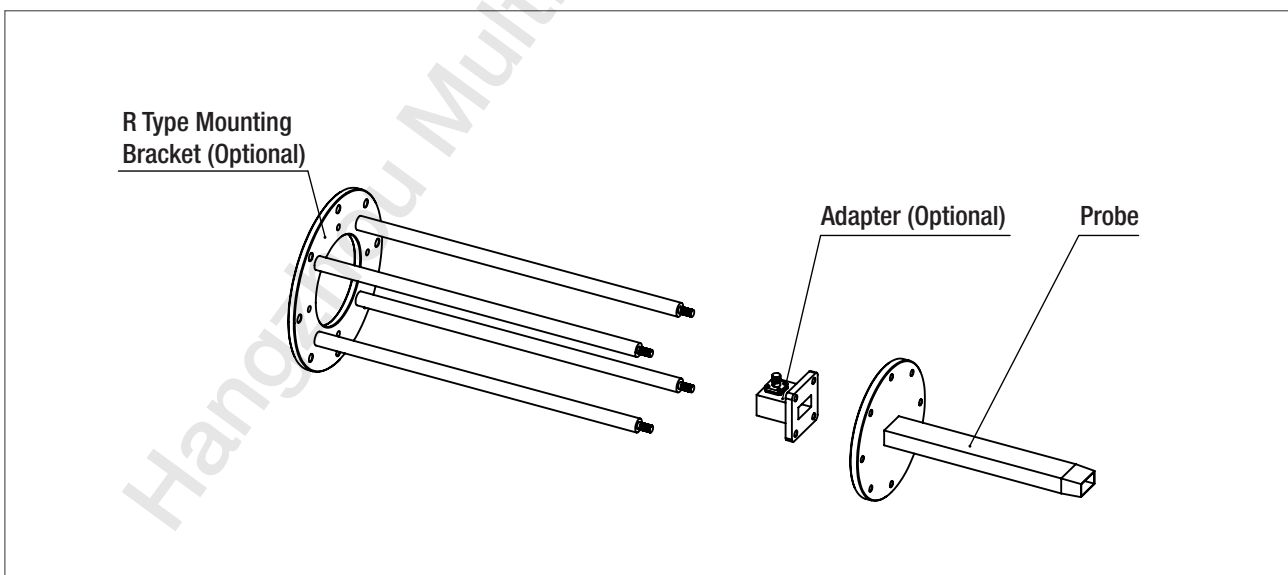
• Assembly dimensional drawing

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.

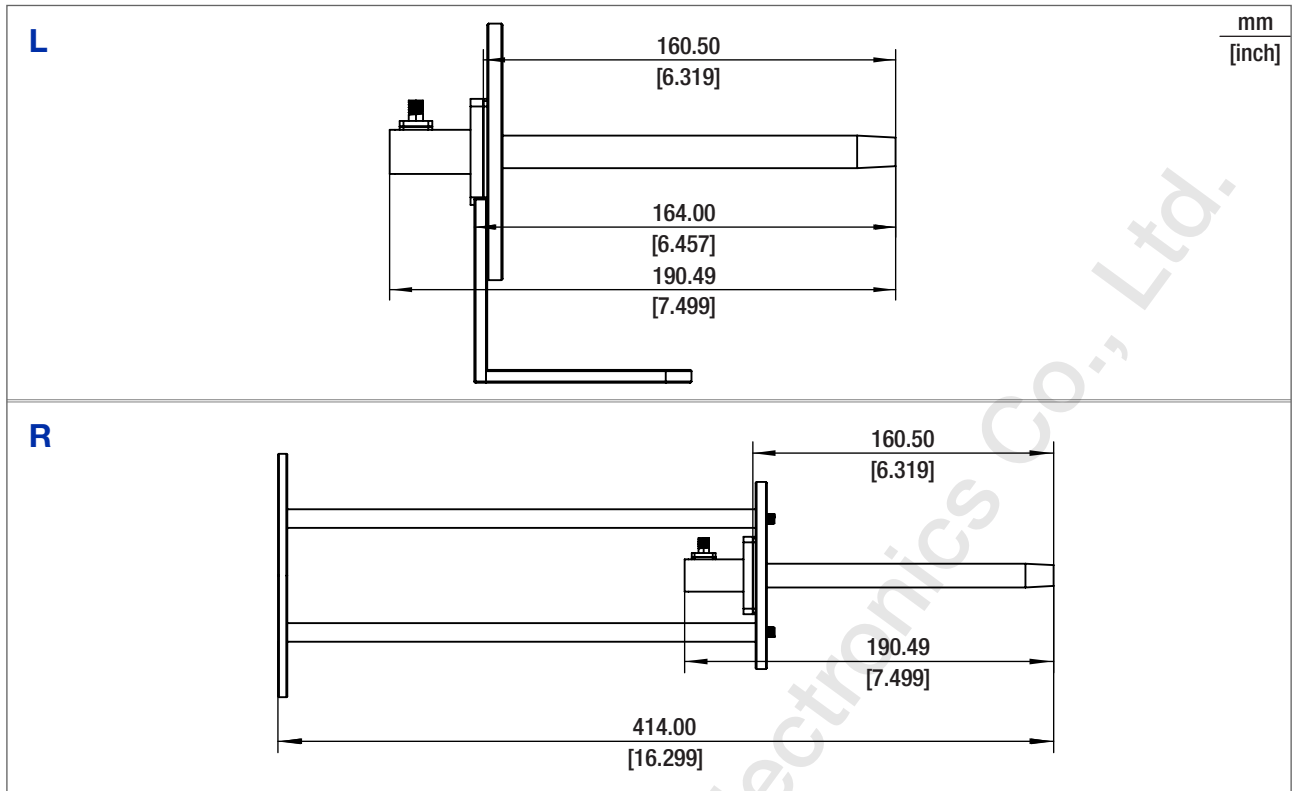
L_detector explosive body



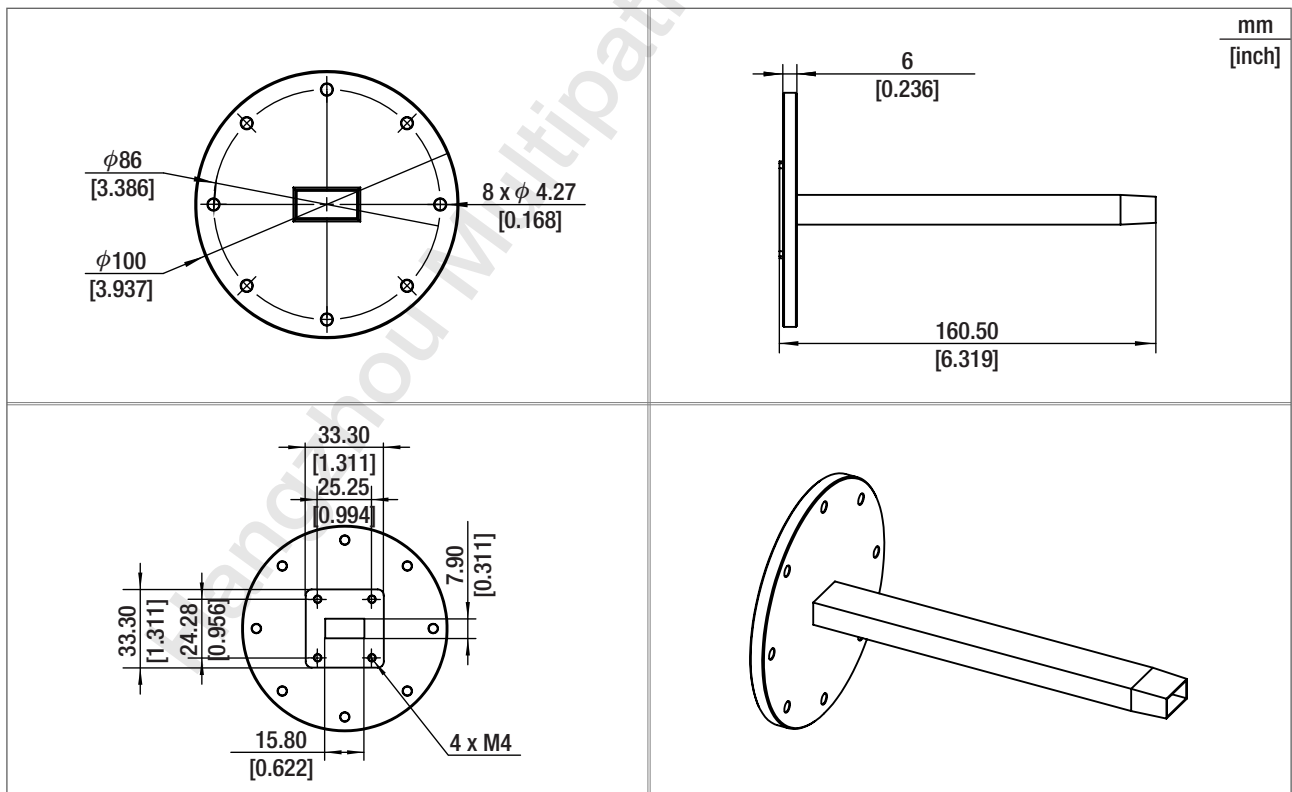
R_detector explosive body



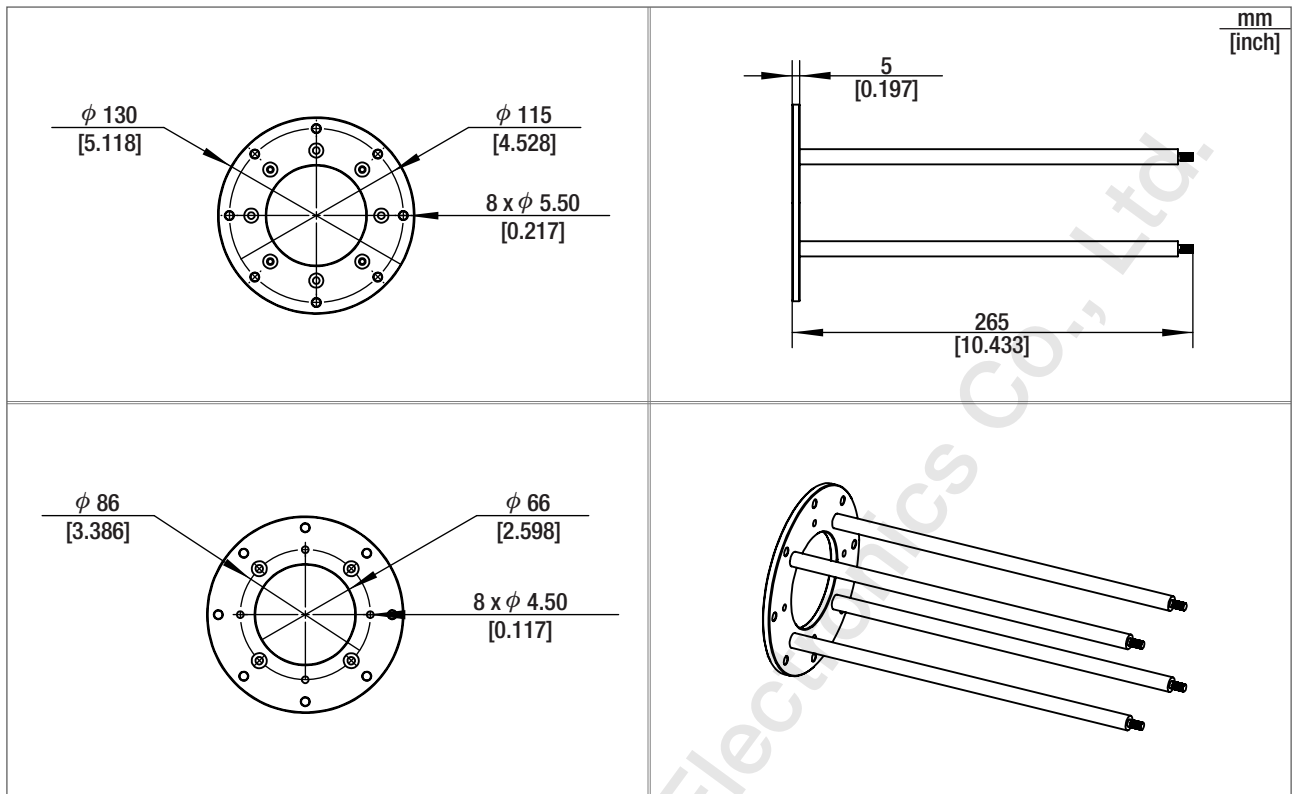
• Side view of the mounting system



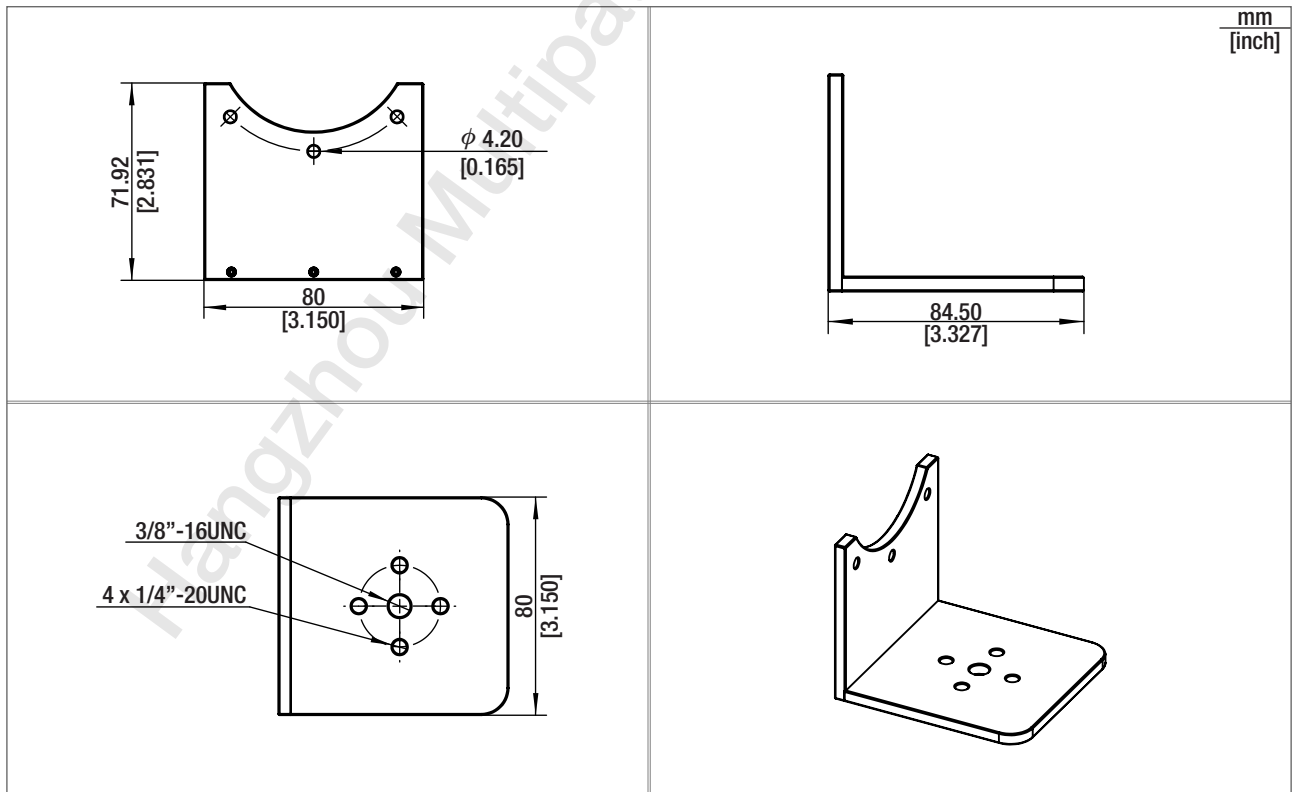
• Dimensional drawing: detectors, WP-WR62



• Dimensional drawing: round mounting bracket (Optional)

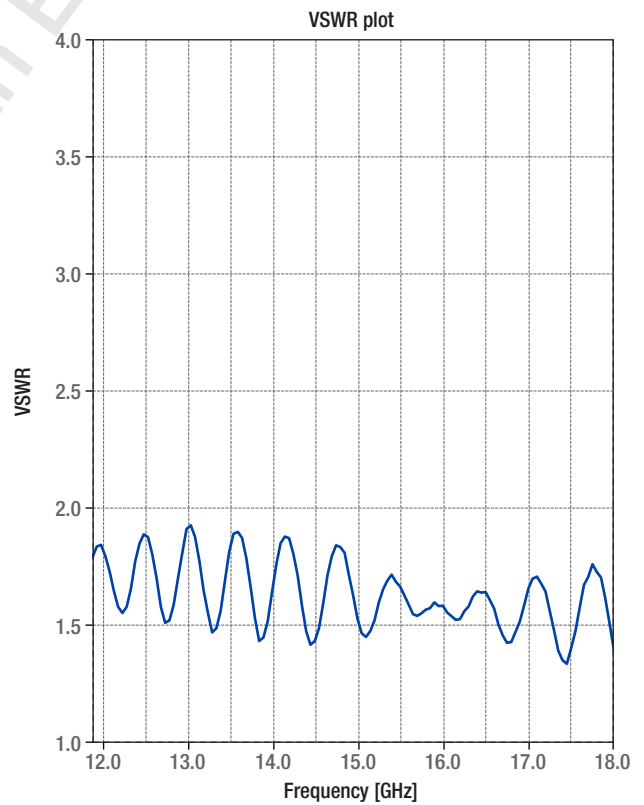
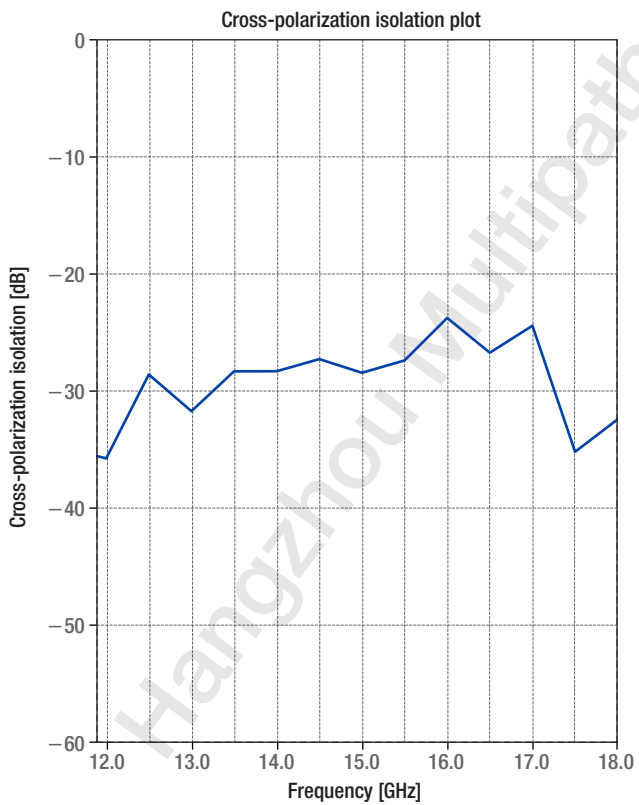
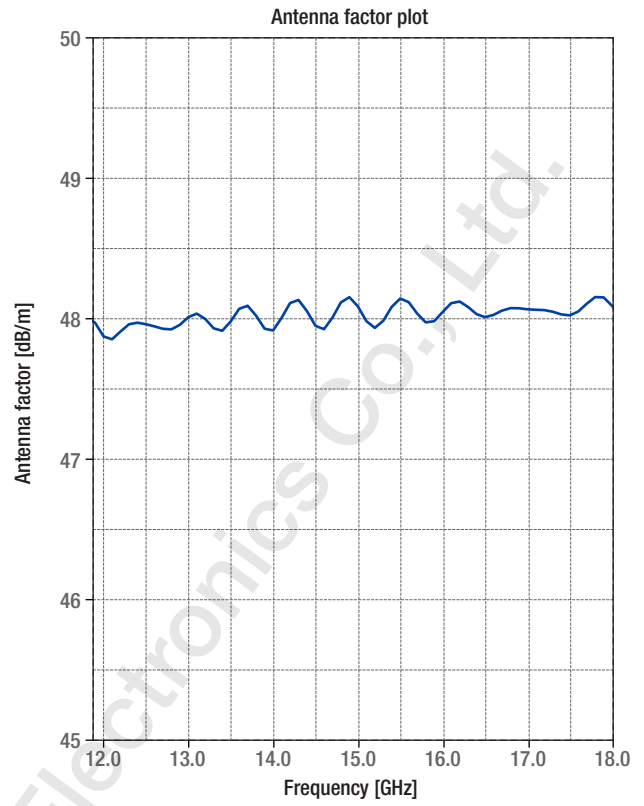
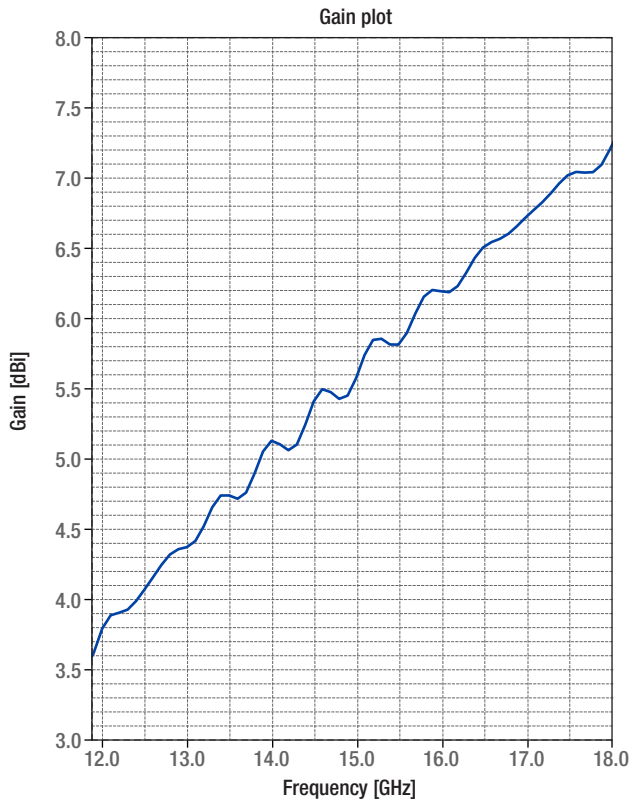


• Dimensional drawing: L type mounting bracket (Optional)



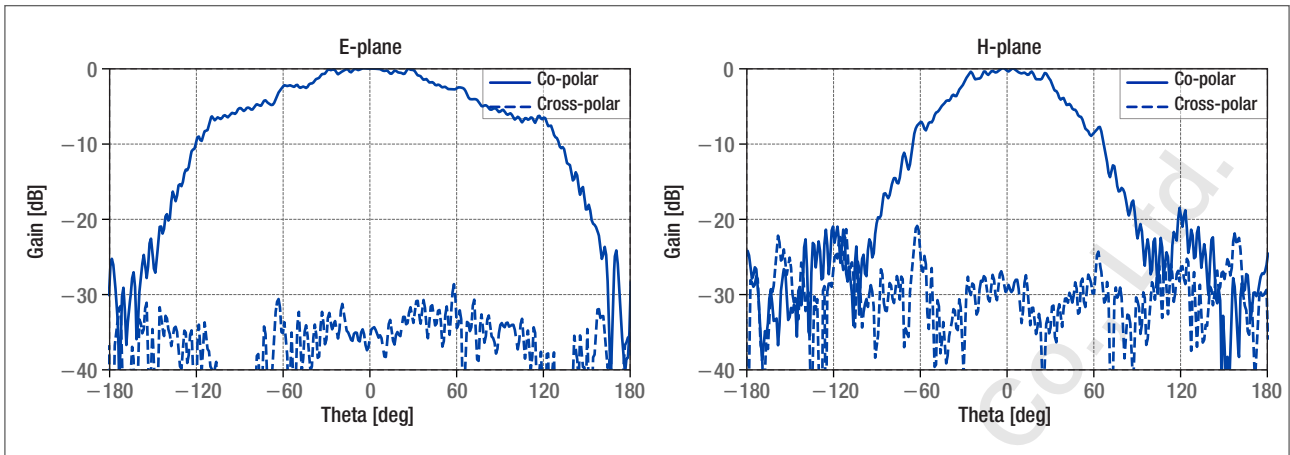
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

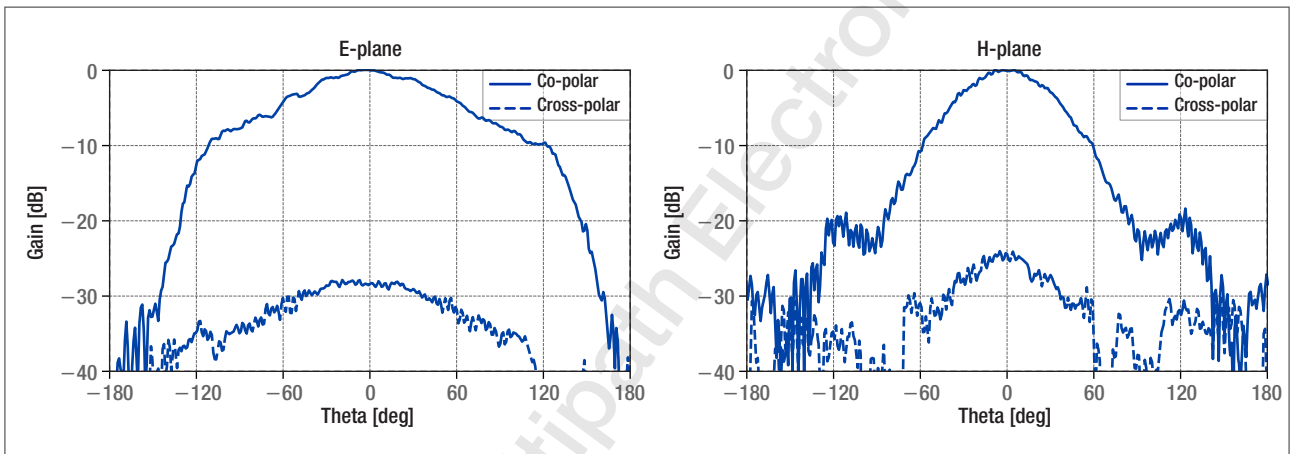


• Radiation patterns

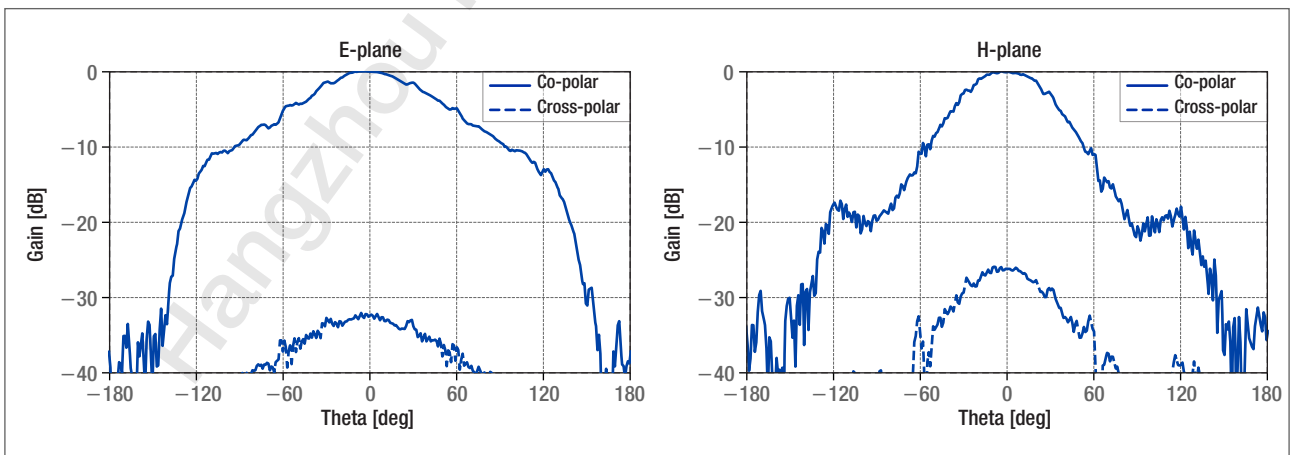
Patterns @ 12 GHz



Patterns @ 15 GHz



Patterns @ 18 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
12.0	3.90	47.87	-30.63	1.84
12.3	4.03	47.96	-26.26	1.58
12.6	4.25	47.94	-23.97	1.80
12.9	4.45	47.95	-25.84	1.70
13.2	4.61	47.99	-25.11	1.65
13.5	4.82	47.98	-23.09	1.81
13.8	4.97	48.02	-22.99	1.53
14.1	5.17	48.00	-21.75	1.85
14.4	5.31	48.05	-18.26	1.47
14.7	5.53	48.00	-17.54	1.79
15.0	5.63	48.08	-18.21	1.53
15.3	5.90	47.98	-17.58	1.65
15.6	5.94	48.11	-17.40	1.59
15.9	6.24	47.98	-18.11	1.60
16.2	6.27	48.11	-17.62	1.52
16.5	6.53	48.01	-16.53	1.64
16.8	6.63	48.07	-18.10	1.43
17.1	6.79	48.06	-21.32	1.71
17.4	6.98	48.02	-27.86	1.35
17.7	7.05	48.10	-24.11	1.71
18.0	7.21	48.08	-15.23	1.39

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
12	128.17°	66.86°
15	97.16°	62.85°
18	78.20°	60.79°



Multipath Electronics

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