

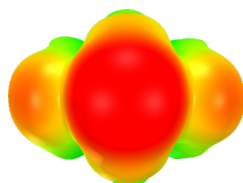


Standard Gain Horn Antennas

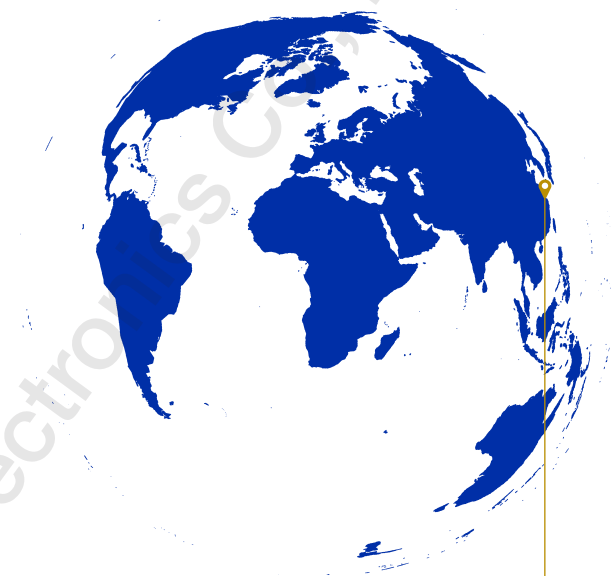
21.0 - 34.0 GHz, 15 dBi



Radiation pattern



QR code



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

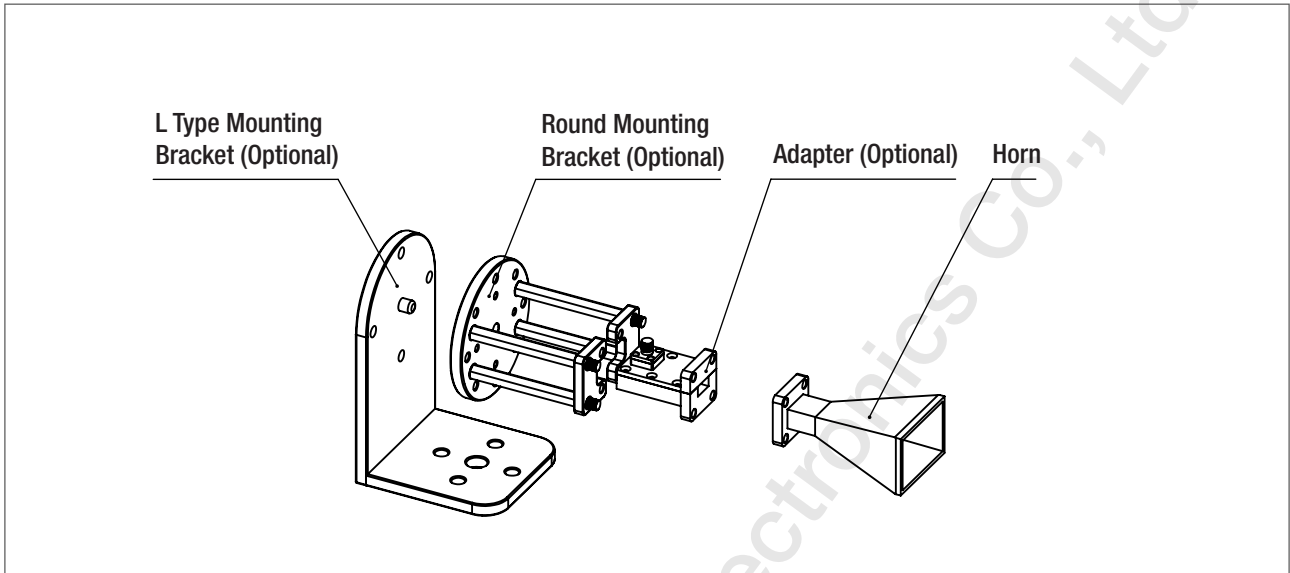
⚙️ Product specifications

Part number	HA-WR34-15	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	15 Typ.
Frequency range [GHz]	21.7 – 33.0	3dB beamwidth [deg]	E-plane: 25 Typ. H-plane: 25 Typ.
Waveguide band	WR34	Cross-polarization isolation [dB]	35 Typ.
Dimensions (H x W x L) [mm; inch]	35.2 x 24.7 x 89.2; 1.39 x 0.97 x 3.51	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.05; 0.110	Impedance [Ohms]	50
Material	Aluminum	RF connector	2.4-Female

Outline dimensions

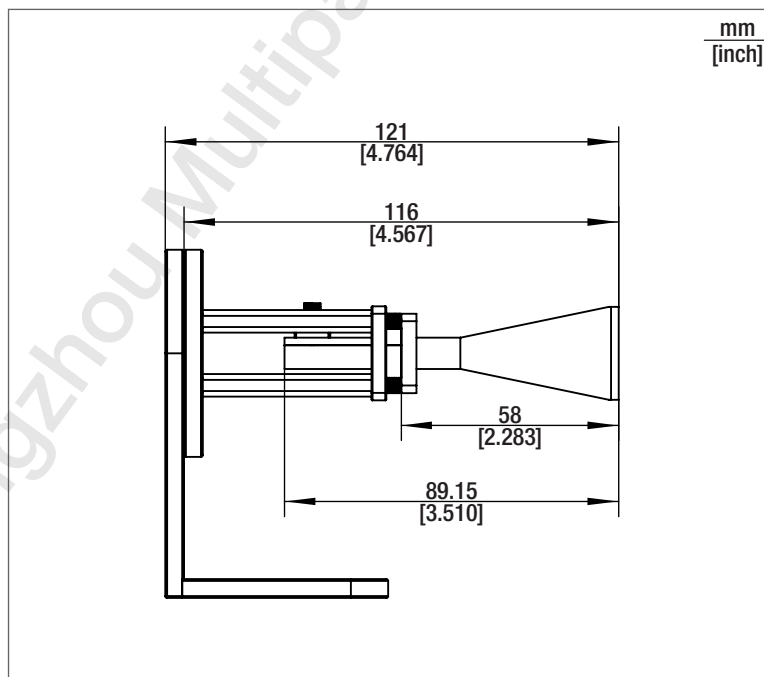
• Assembly dimensional drawing

Multipath Electronics provides complete standard gain horn 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.

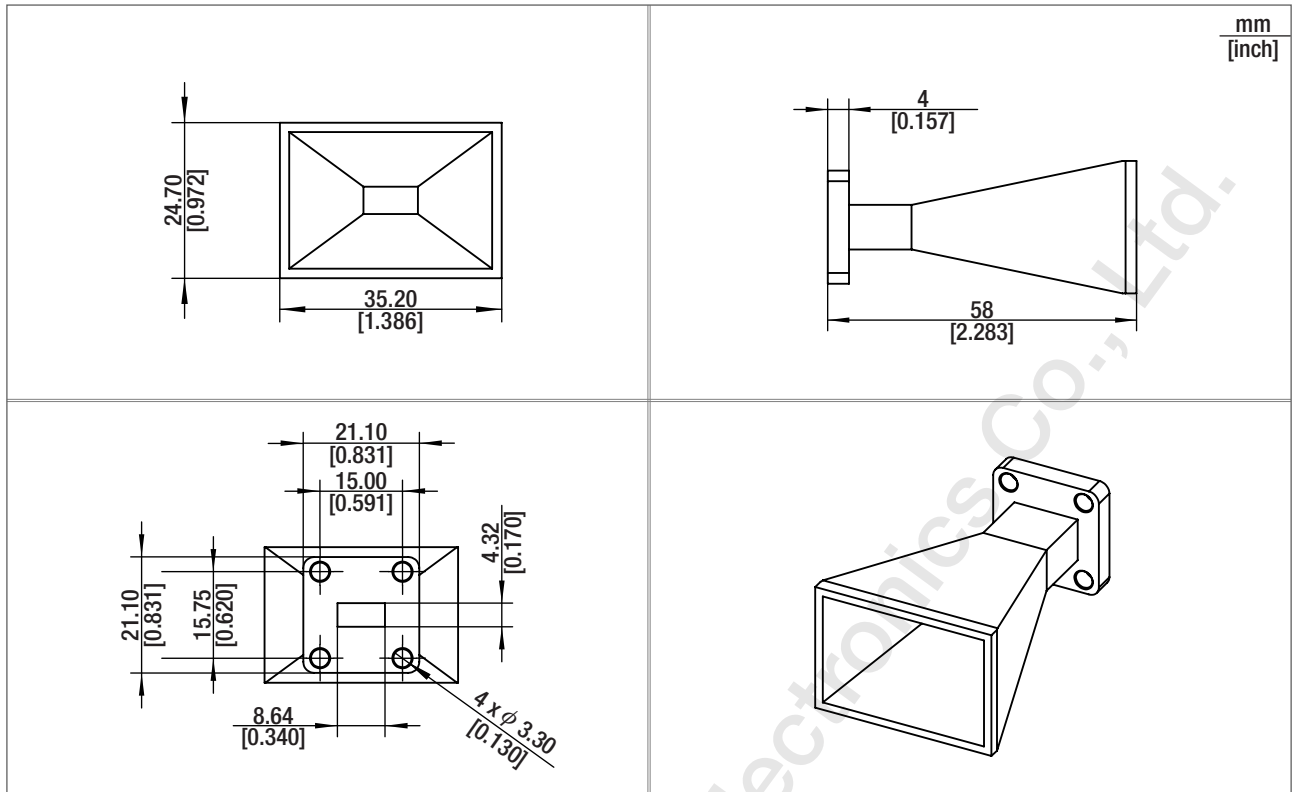


Side view of the mounting system.

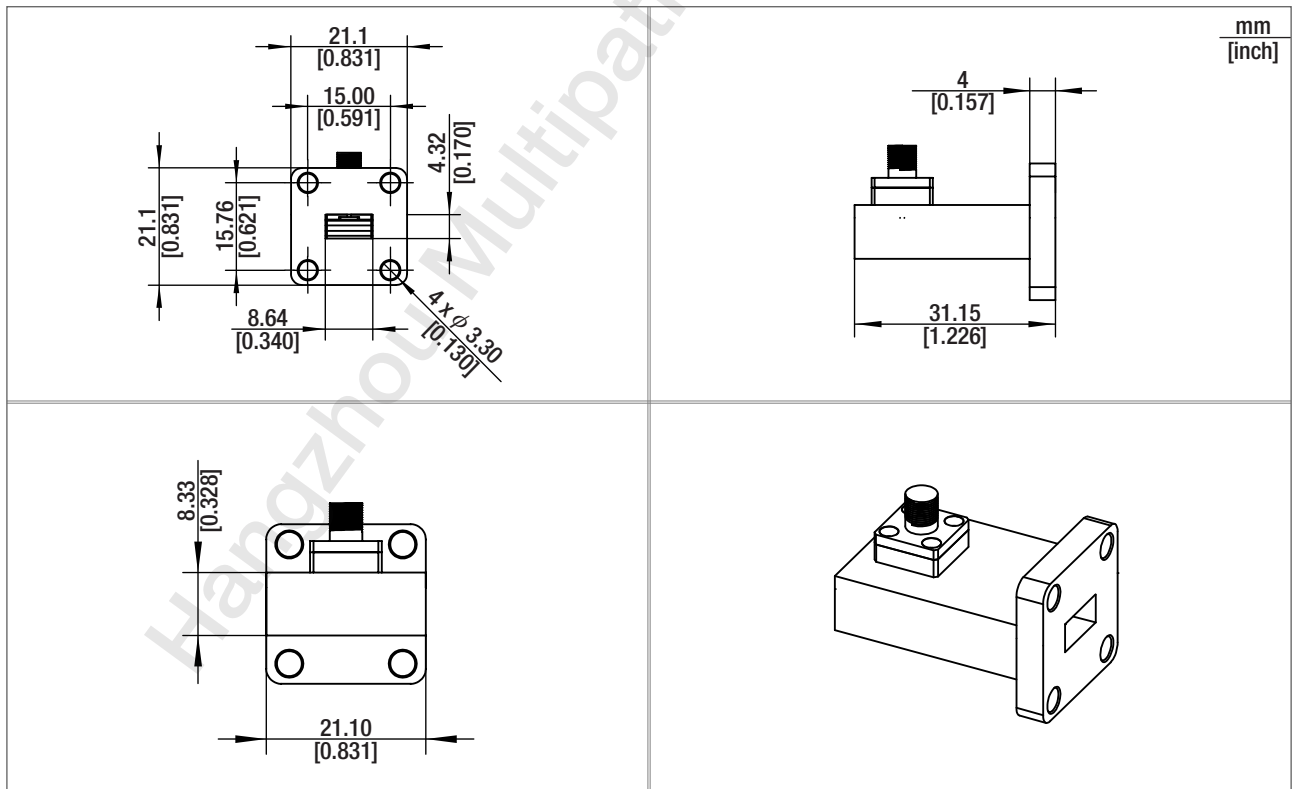
Detailed dimensions of the components will be given in subsequent diagrams.



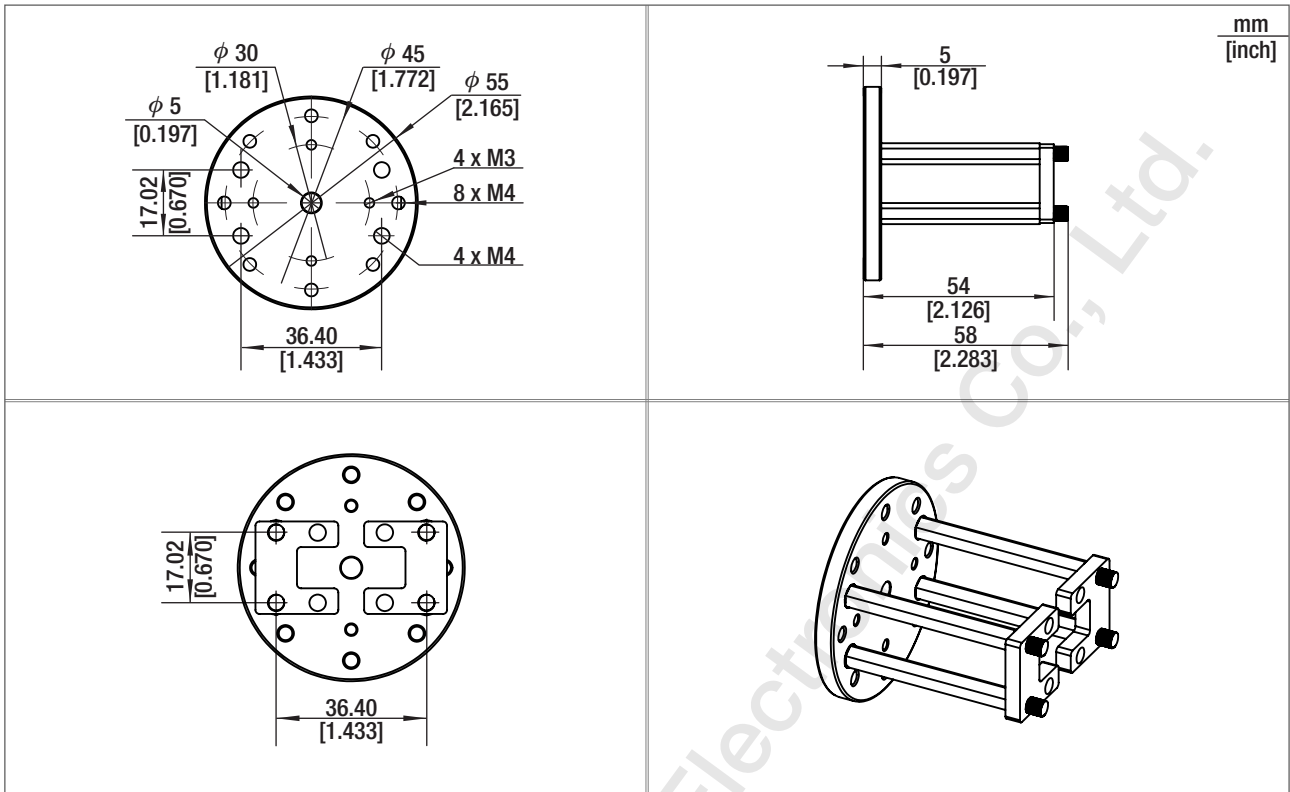
• Dimensional drawing: horn, HA-WR34-15



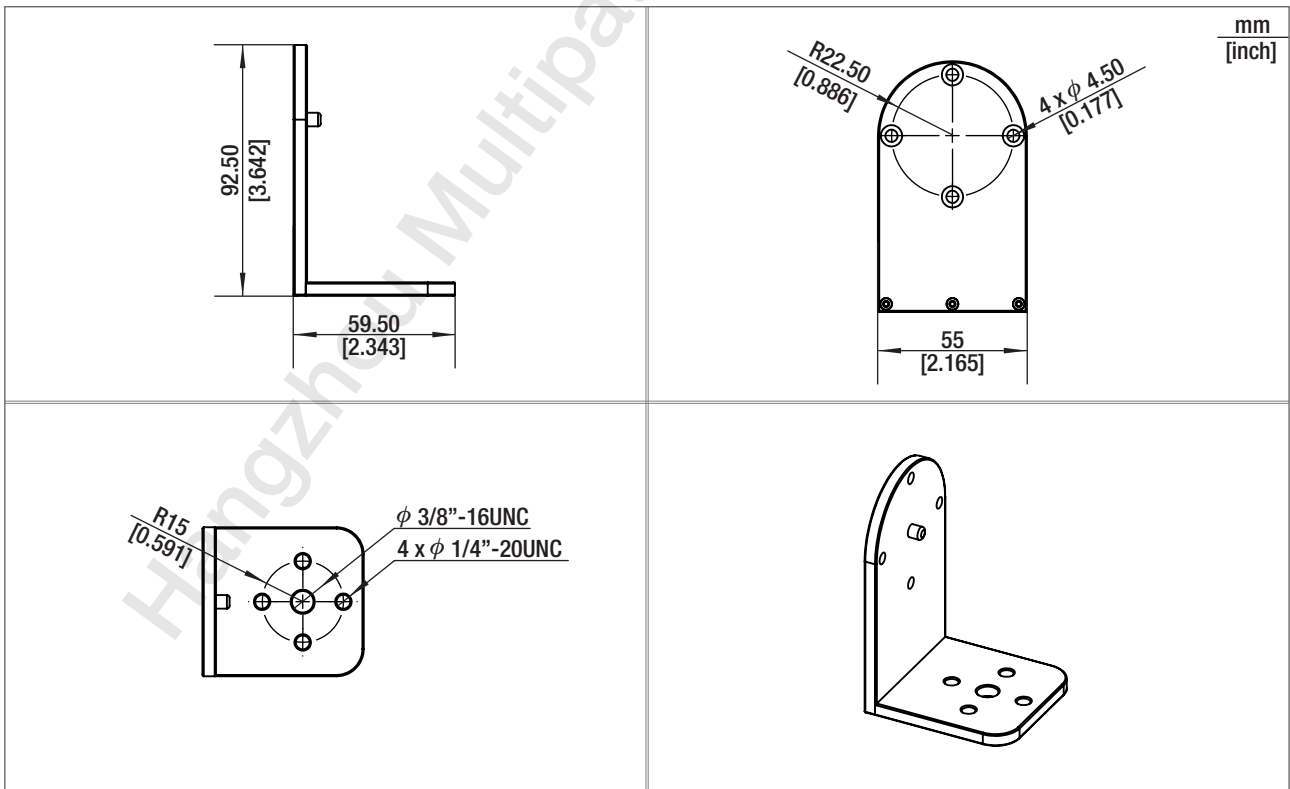
• Dimensional drawing: adapter, WR34-SMA-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

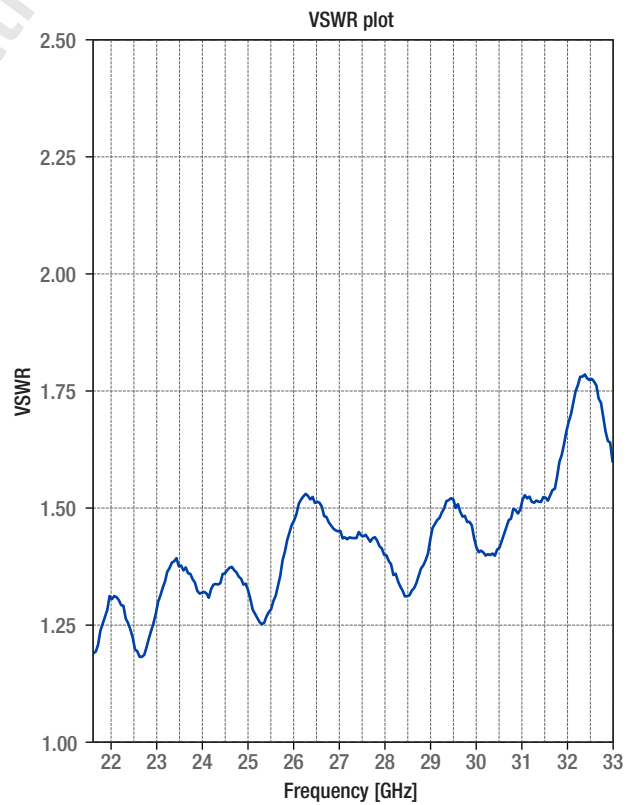
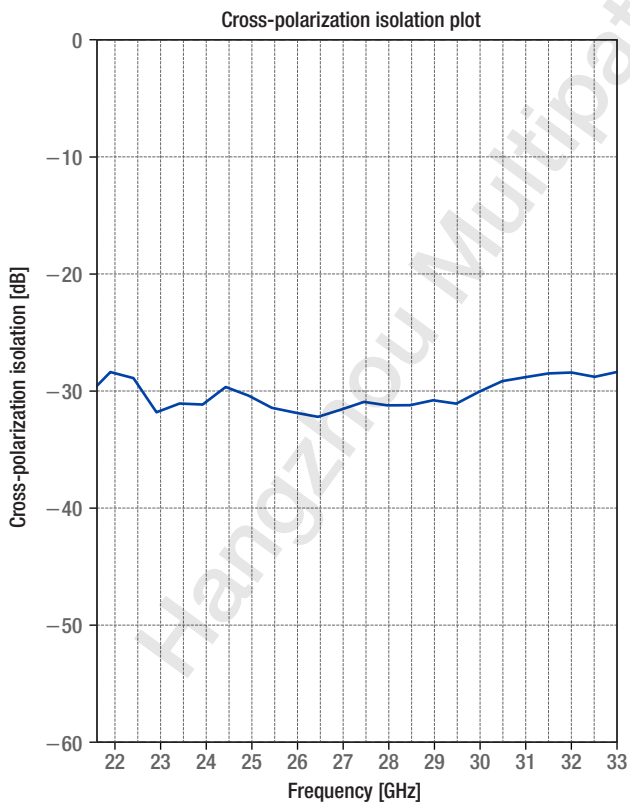
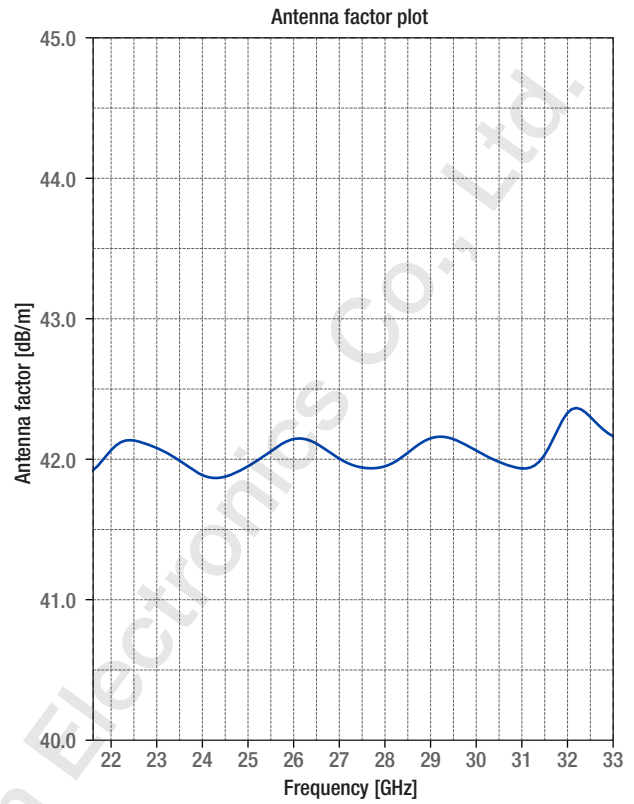
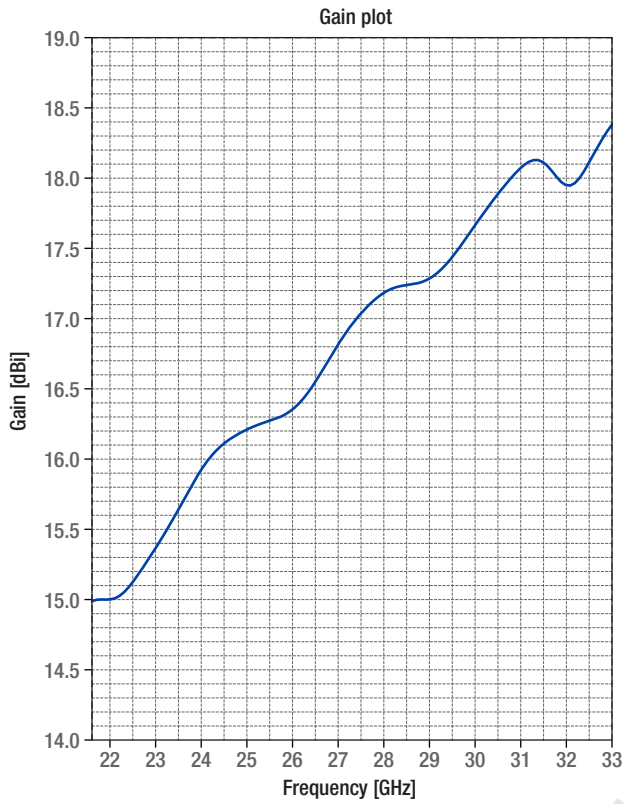


• Dimensional drawing: L type mounting bracket (Optional)



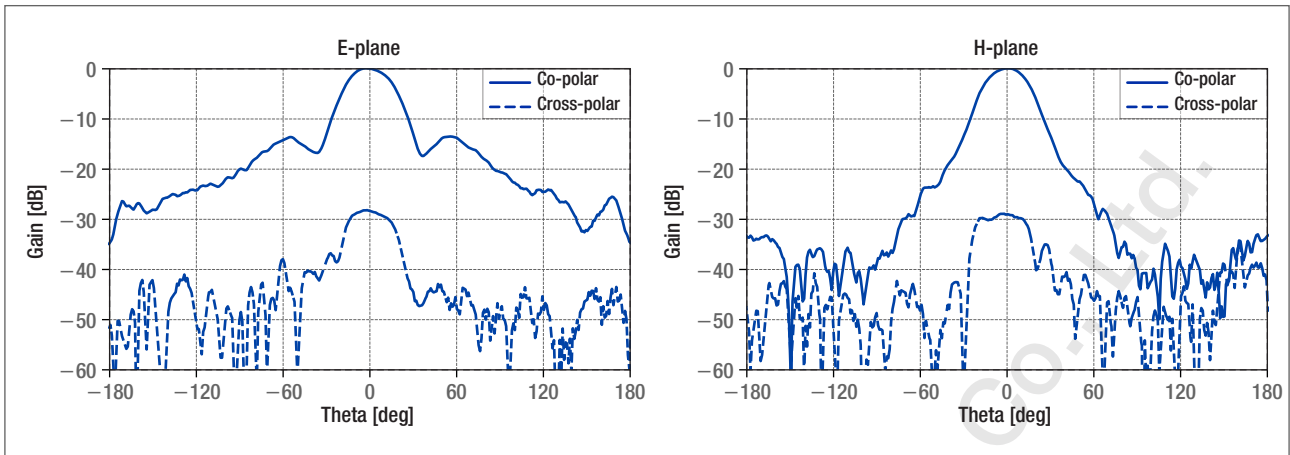
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

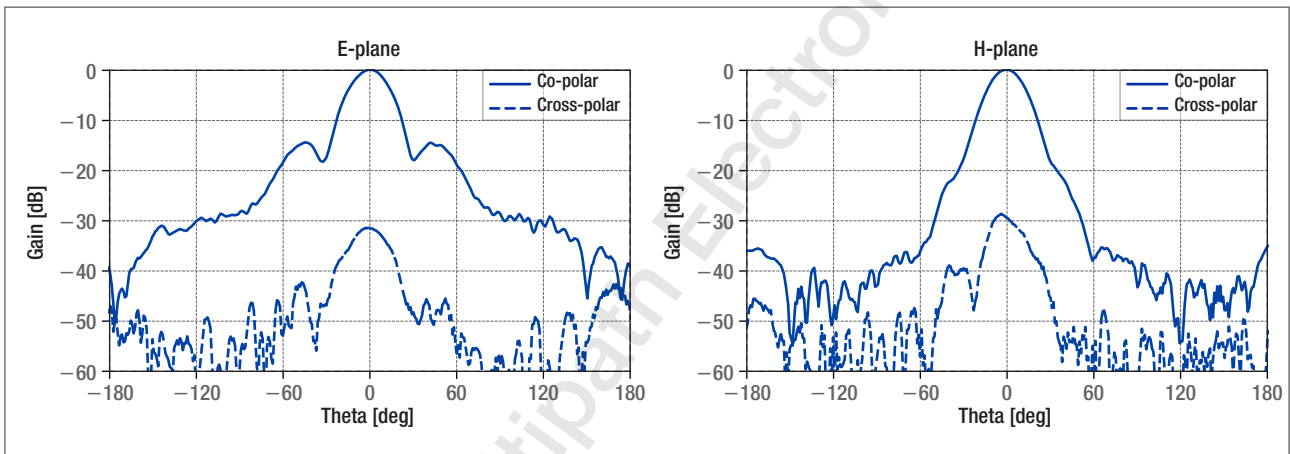


• Radiation patterns

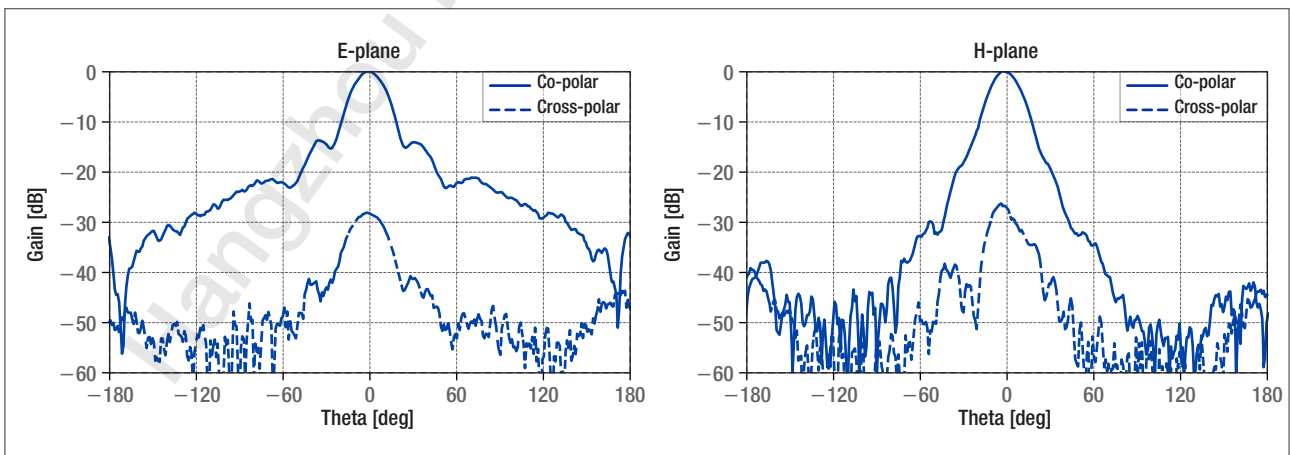
Patterns @ 22.0 GHz



Patterns @ 27.0 GHz



Patterns @ 33.0 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
22.0	15.00	42.04	-28.23	1.20
22.5	15.09	42.14	-28.75	1.19
23.0	15.33	42.10	-31.67	1.17
23.5	15.60	42.01	-30.93	1.32
24.0	15.89	41.90	-31.01	1.26
24.5	16.10	41.88	-29.51	1.27
25.0	16.21	41.94	-30.26	1.27
25.5	16.27	42.05	-31.29	1.20
26.0	16.35	42.14	-31.70	1.38
26.5	16.53	42.13	-32.07	1.46
27.0	16.80	42.02	-31.45	1.39
27.5	17.03	41.95	-30.79	1.38
28.0	17.18	41.95	-31.08	1.35
28.5	17.25	42.04	-31.07	1.25
29.0	17.29	42.15	-30.65	1.34
29.5	17.43	42.15	-30.94	1.46
30.0	17.66	42.07	-29.91	1.37
30.5	17.89	41.99	-29.01	1.35
31.0	18.08	41.94	-28.67	1.43
31.5	18.13	42.03	-28.35	1.46
32.0	17.96	42.33	-28.27	1.60
32.5	18.12	42.31	-28.64	1.71
33.0	18.39	42.17	-28.21	1.54

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
22.0	31.71°	30.15°
27.0	25.26°	23.57°
33.0	21.26°	19.24°



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.