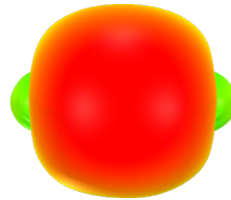


Standard Gain Horn Antennas

26.3 - 40.0 GHz, 10 dBi



Radiation pattern



QR code



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

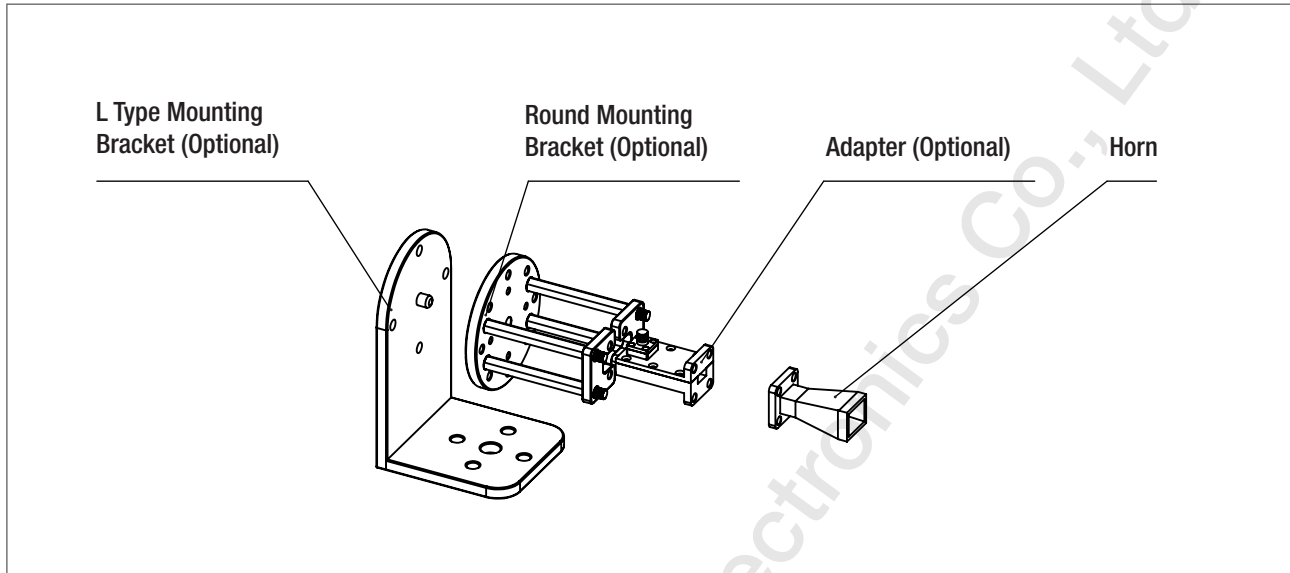
⚙️ Product specifications

Part number	HA-WR28-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	26.3 – 40.0	3dB beamwidth [deg]	E-plane: 42 Typ. H-plane: 42 Typ.
Waveguide band	WR28	Cross-polarization isolation [dB]	30 Typ.
Dimensions (H x W x L) [mm; inch]	19.1 x 19.1 x 68.1; 0.75 x 0.75 x 2.68	VSWR	1.20 Typ.
Weight (approx.) [kg; lb]	0.04; 0.088	Impedance [Ohms]	50
Material	Aluminum	RF connector	2.4-Female

Outline dimensions

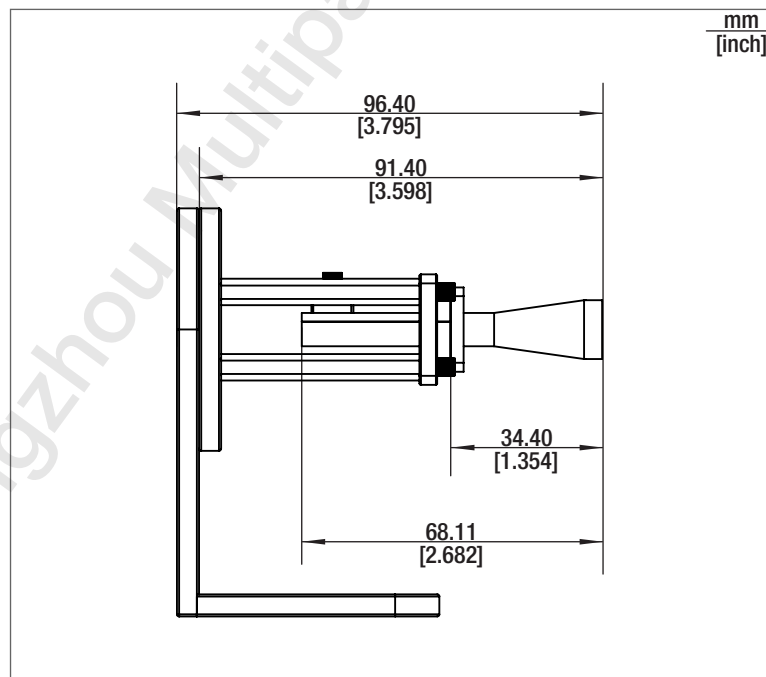
• Assembly dimensional drawing

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.

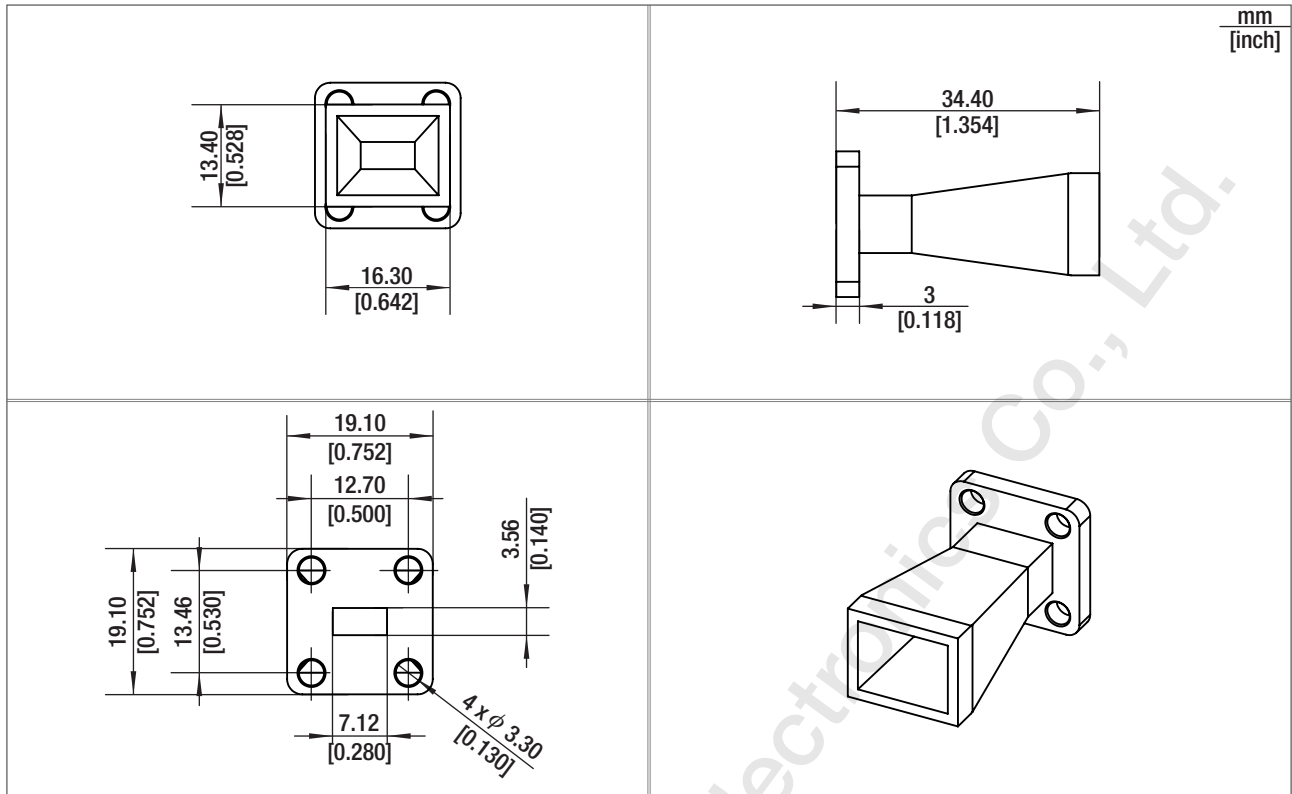


Side view of the mounting system.

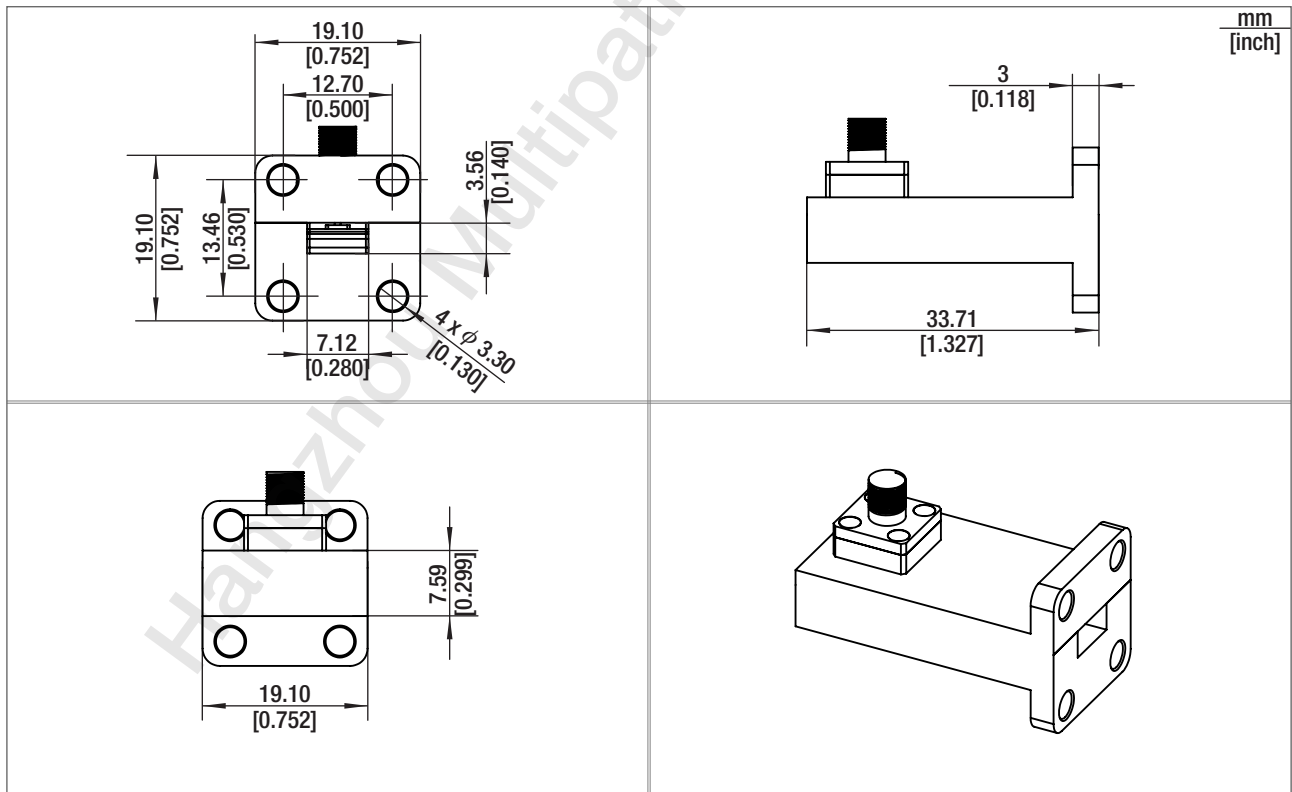
Detailed dimensions of the components will be given in subsequent diagrams.



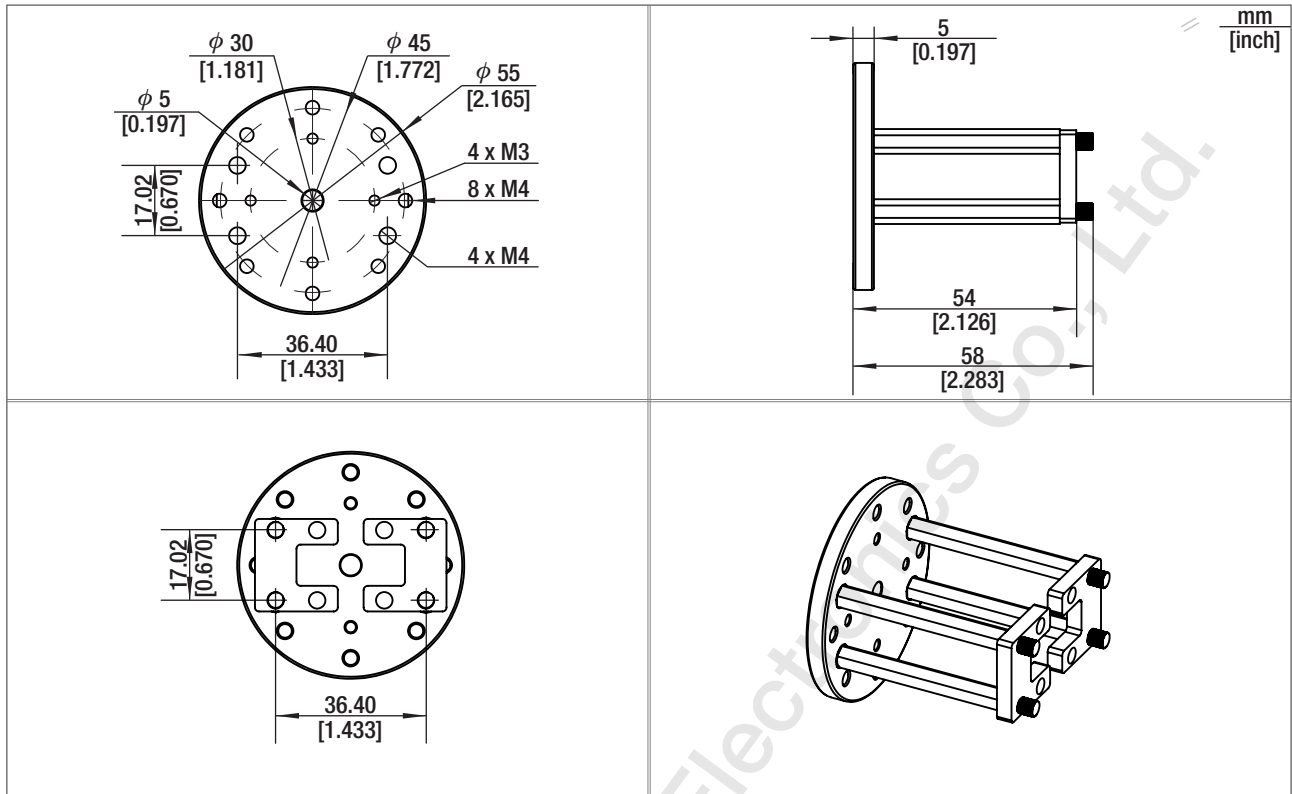
• Dimensional drawing: horn, HA-WR28-10



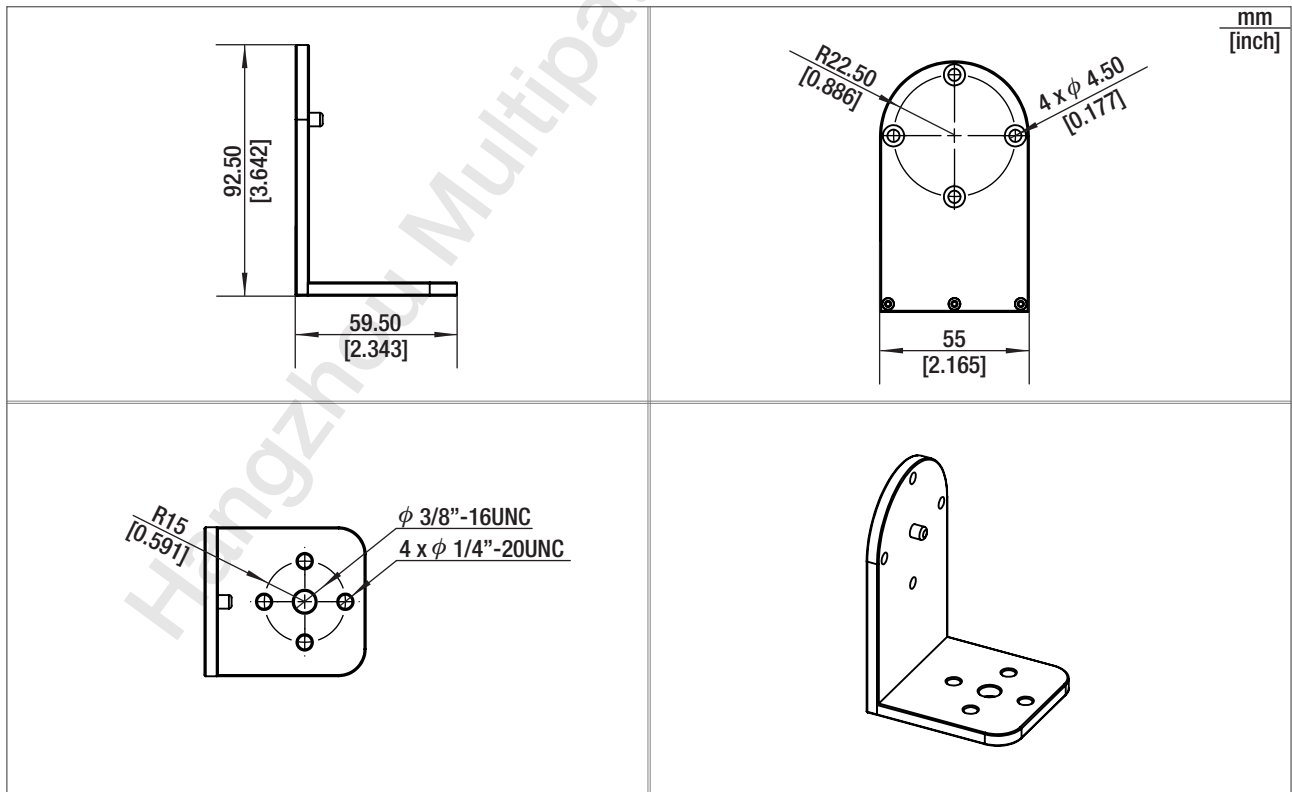
• Dimensional drawing: adapter, WR28-SMA-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

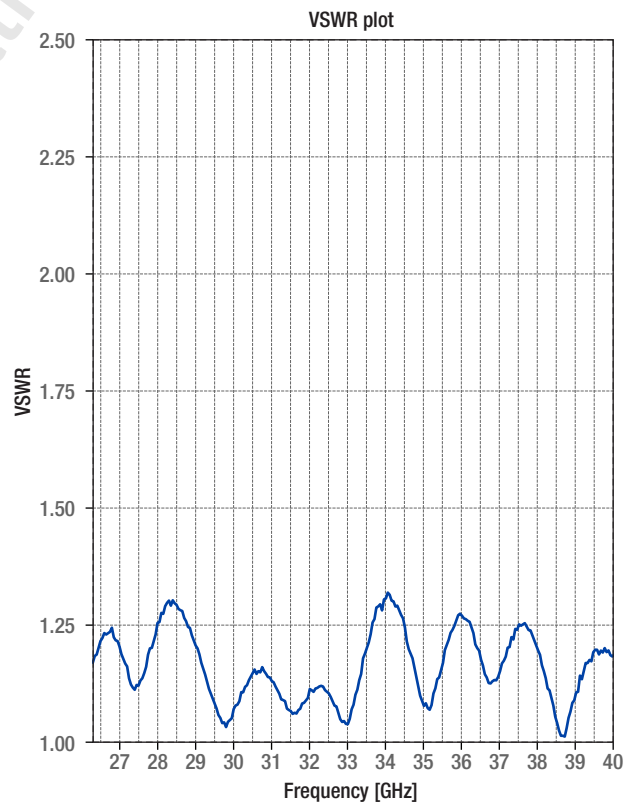
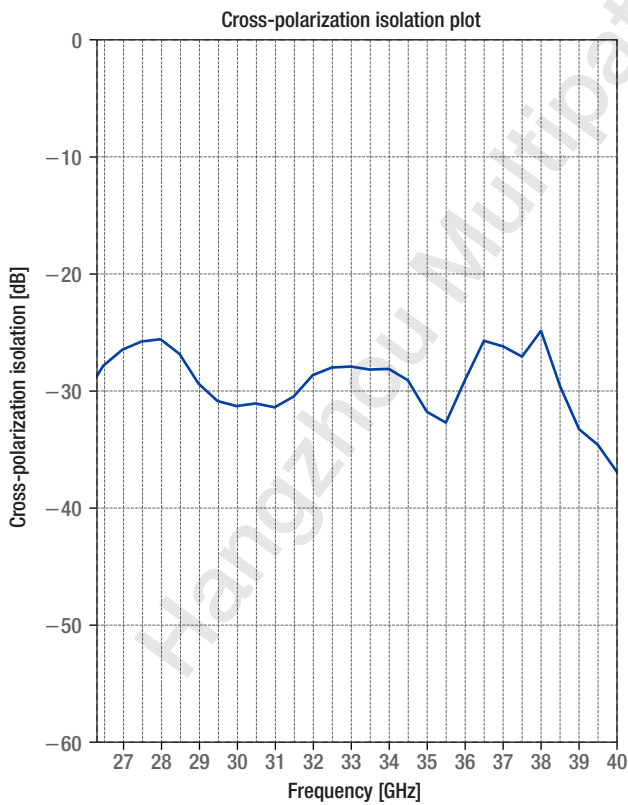
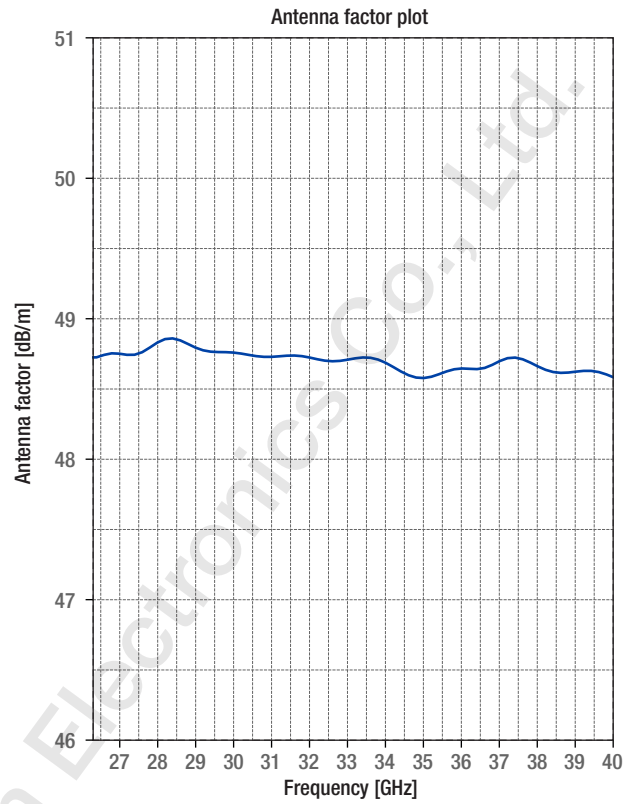
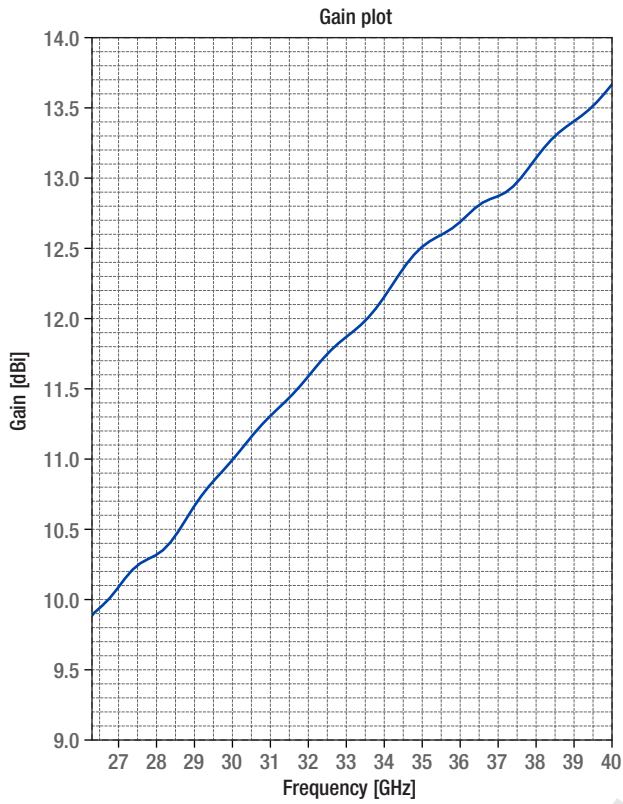


• Dimensional drawing: L type mounting bracket (Optional)



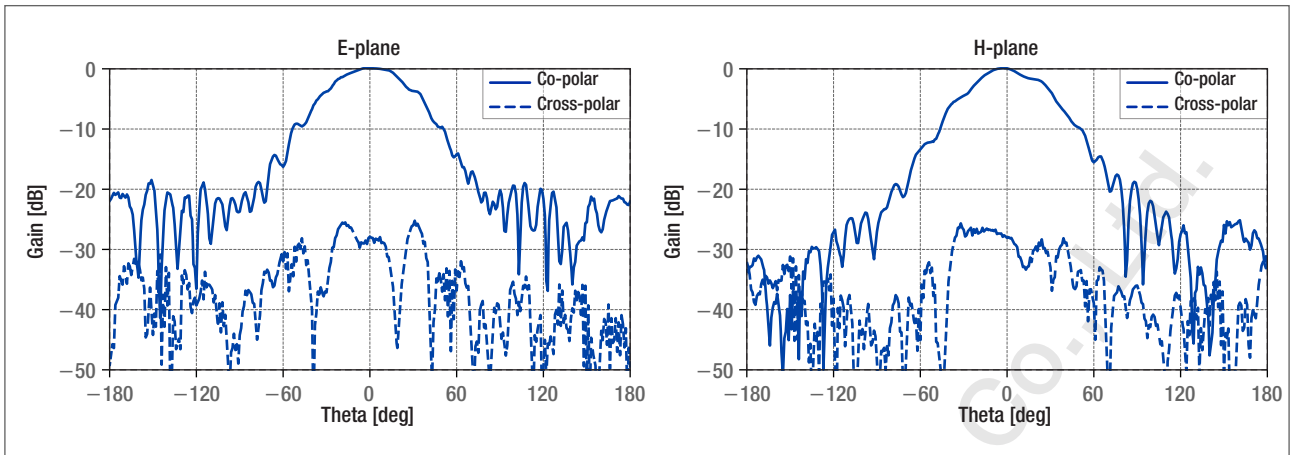
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

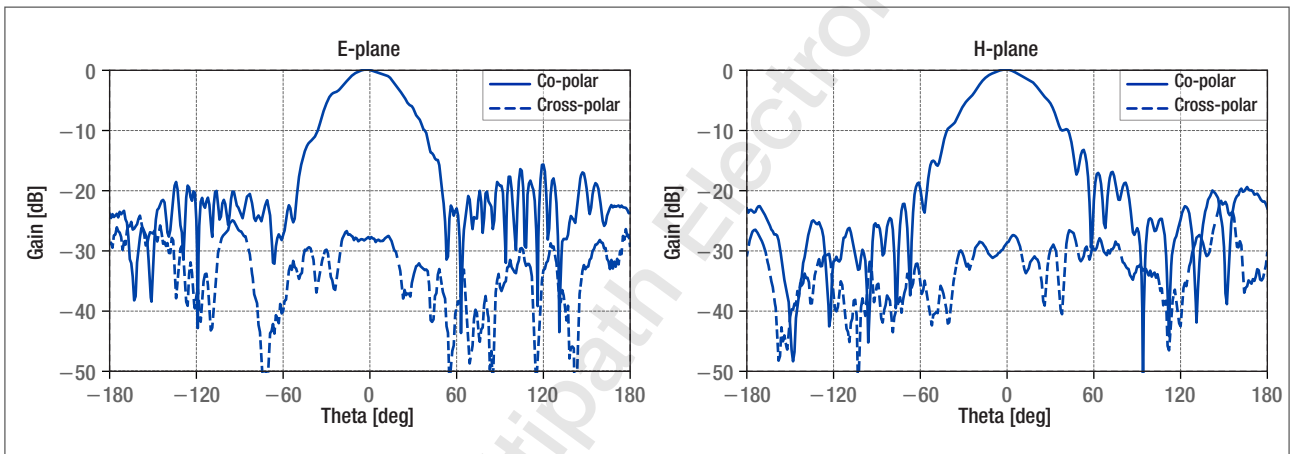


• Radiation patterns

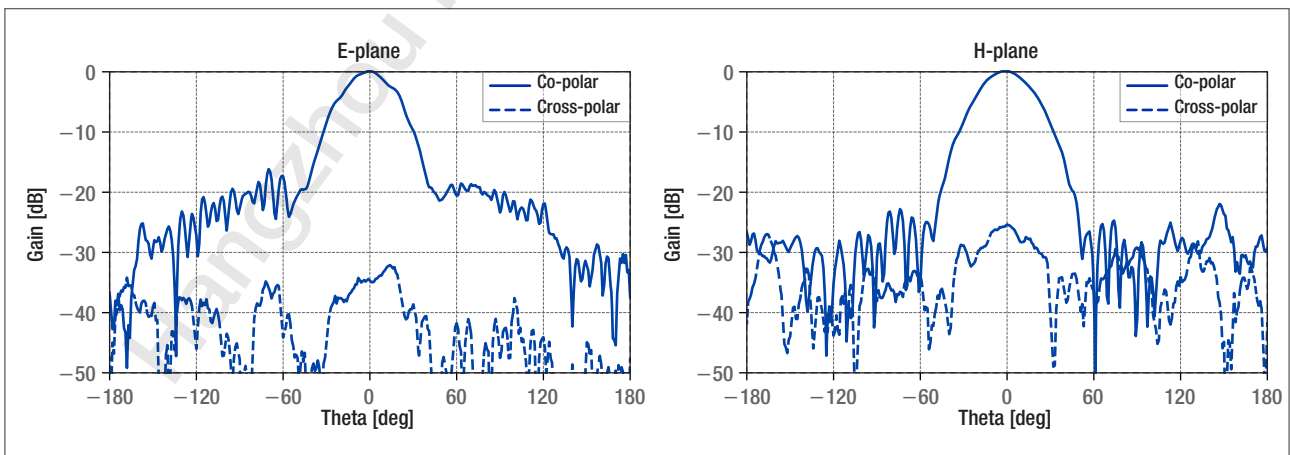
Patterns @ 26.5 GHz



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	9.93	48.73	-27.84	1.22
27.0	10.08	48.75	-26.48	1.21
27.5	10.23	48.75	-25.78	1.12
28.0	10.31	48.83	-25.59	1.26
28.5	10.44	48.85	-26.84	1.29
29.0	10.65	48.79	-29.37	1.21
29.5	10.83	48.76	-30.86	1.08
30.0	10.98	48.76	-31.29	1.07
30.5	11.15	48.74	-31.06	1.15
31.0	11.30	48.73	-31.39	1.13
31.5	11.43	48.74	-30.47	1.07
32.0	11.58	48.72	-28.65	1.11
32.5	11.74	48.70	-28.00	1.10
33.0	11.86	48.71	-27.92	1.04
33.5	11.98	48.72	-28.17	1.20
34.0	12.14	48.69	-28.12	1.31
34.5	12.35	48.61	-29.09	1.25
35.0	12.50	48.58	-31.77	1.08
35.5	12.59	48.62	-32.70	1.17
36.0	12.68	48.65	-29.08	1.27
36.5	12.80	48.65	-22.72	1.18
37.0	12.86	48.70	-20.19	1.15
37.5	12.96	48.72	-22.07	1.25
38.0	13.14	48.66	-24.87	1.20
38.5	13.29	48.62	-29.59	1.04
39.0	13.40	48.62	-33.26	1.11

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
26.5	50.83°	50.31°
33.0	39.14°	41.48°
39.5	33.76°	35.27°



Multipath Electronics

Contact

+86-571-56201039

sales@multipath.cn

https://www.multipath-electron.com

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