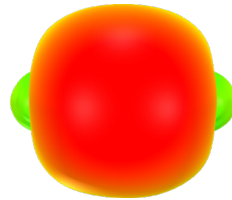




Standard Gain Horn Antennas

21.0 - 34.0 GHz, 10 dBi

Radiation pattern



QR code



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

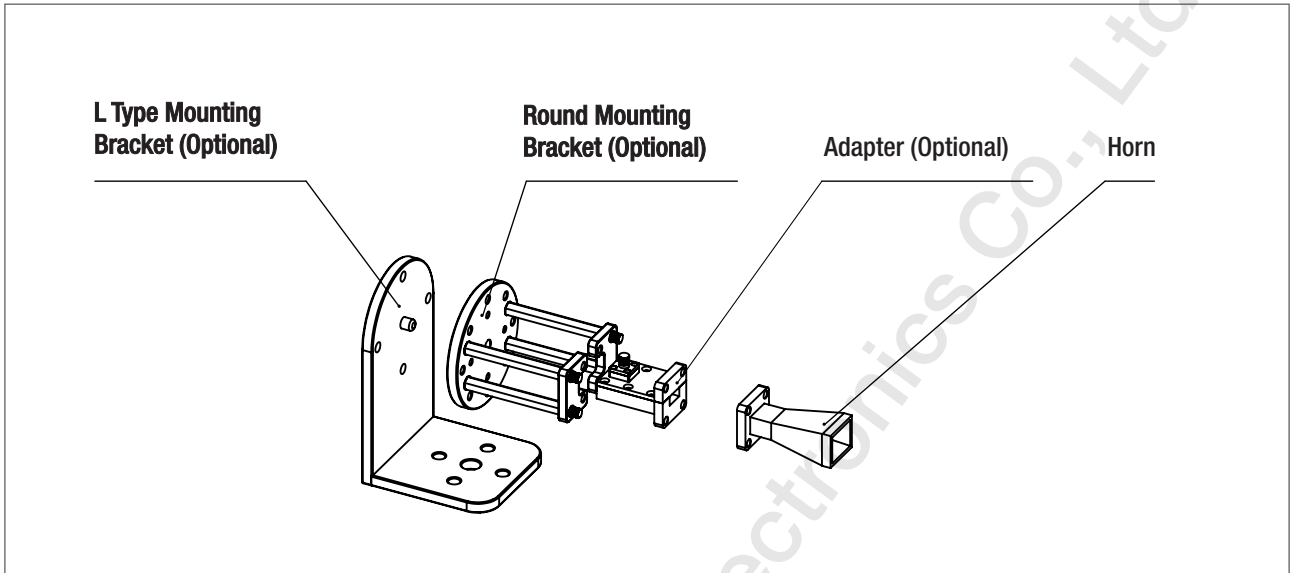
⚙️ Product specifications

Part number	HA-WR34-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	21.7 – 33.0	3dB beamwidth [deg]	E-plane: 45 Typ. H-plane: 45 Typ.
Waveguide band	WR34	Cross-polarization isolation [dB]	35 Typ.
Dimensions (H x W x L) [mm; inch]	30.2 x 30.2 x 74.8; 1.19 x 1.19 x 2.95	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.04; 0.088	Impedance [Ohms]	50
Material	Aluminum	RF connector	2.4-Female

Outline dimensions

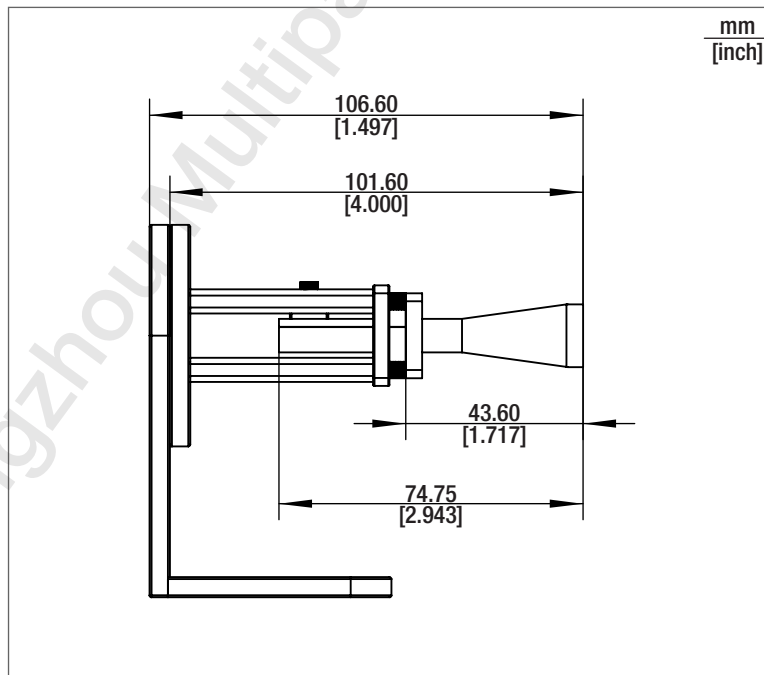
• Assembly dimensional drawing

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.

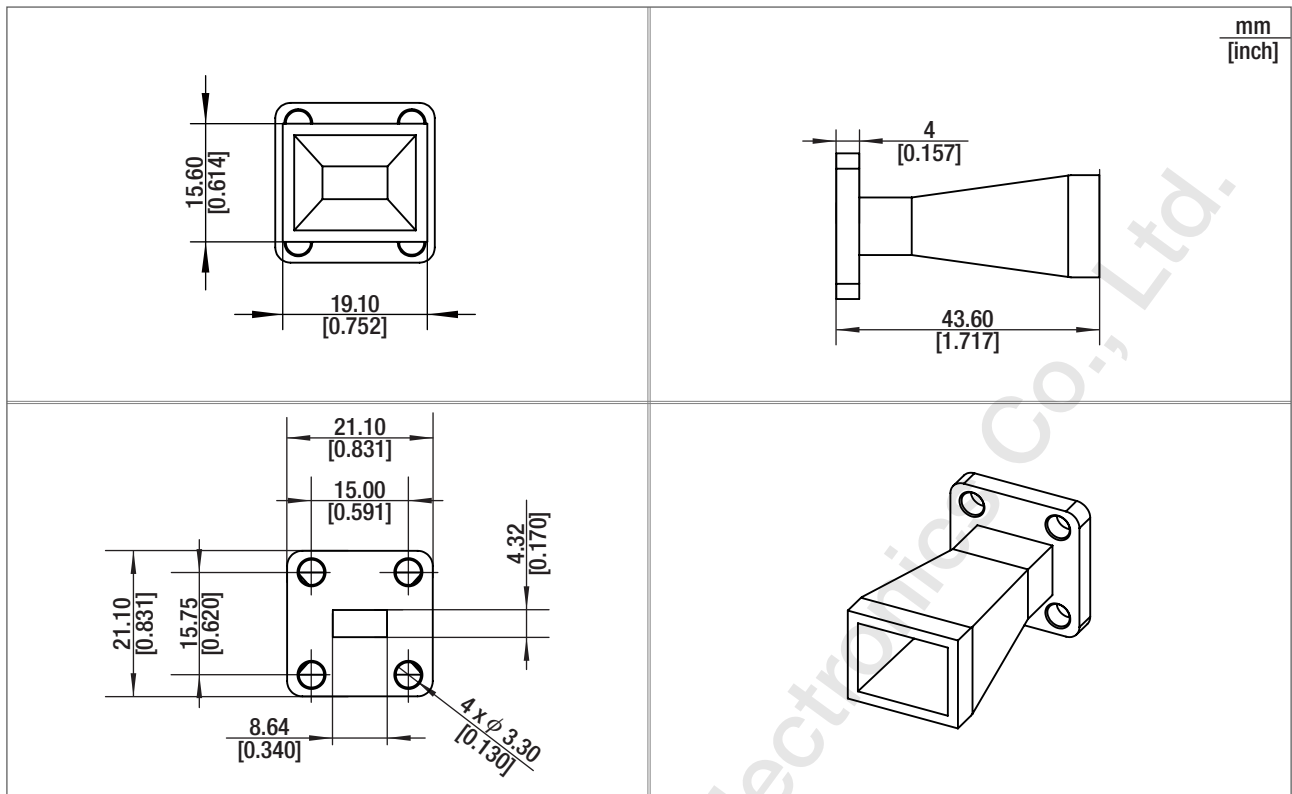


Side view of the mounting system.

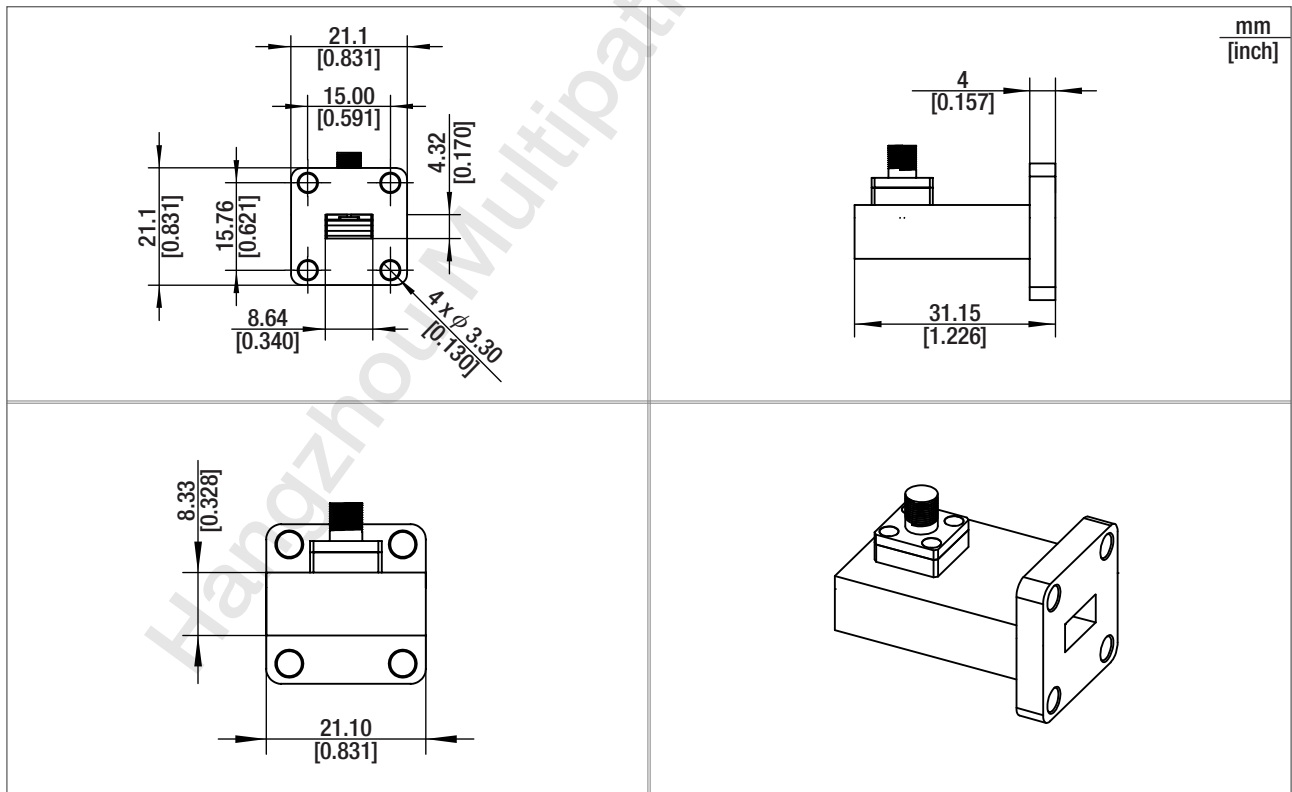
Detailed dimensions of the components will be given in subsequent diagrams.



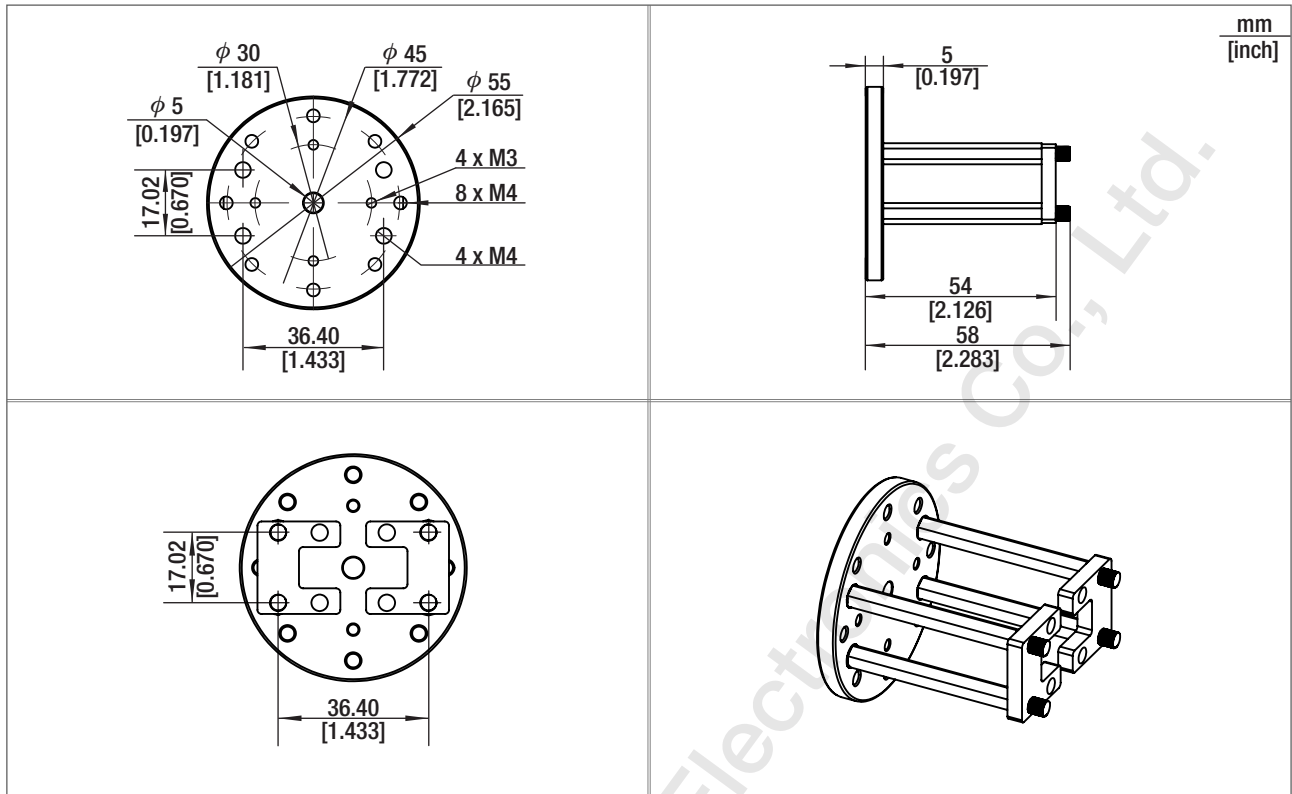
• Dimensional drawing: horn, HA-WR34-10



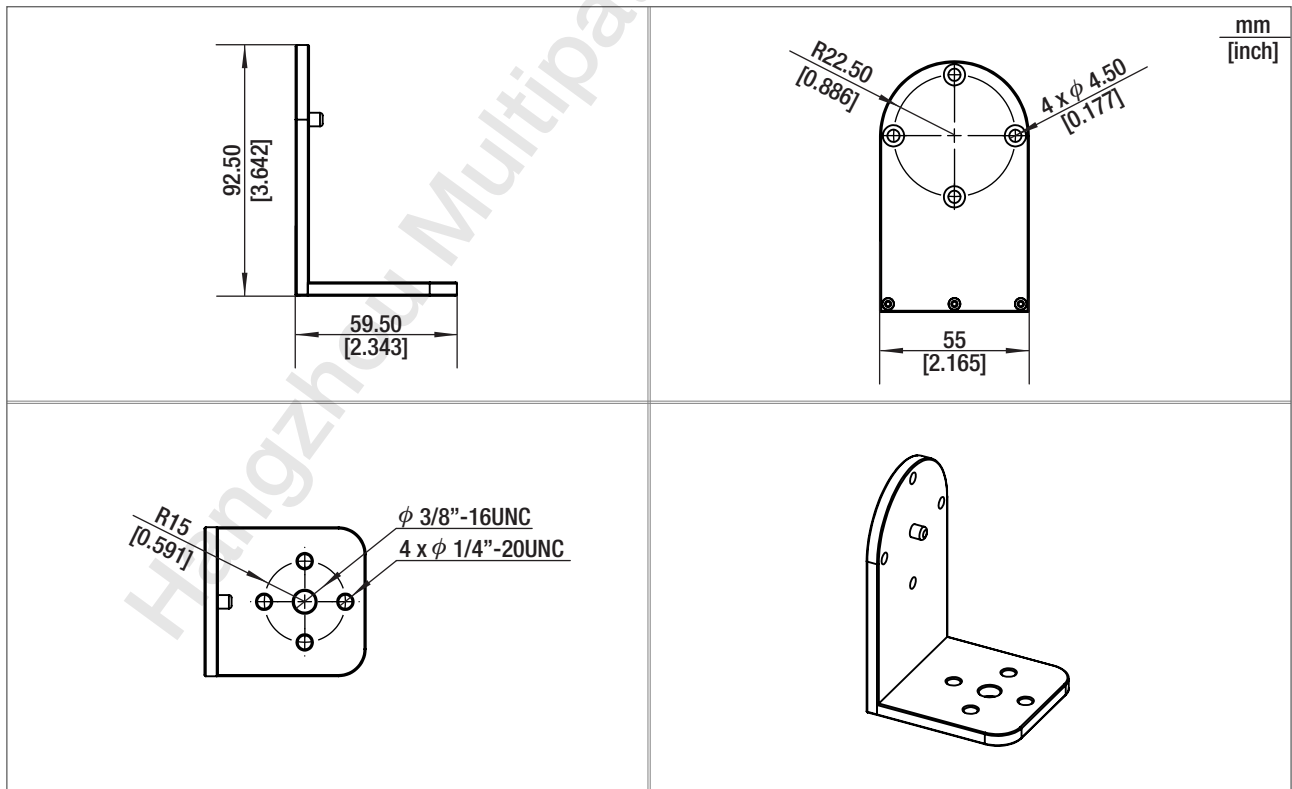
• Dimensional drawing: adapter, WR34-SMA-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

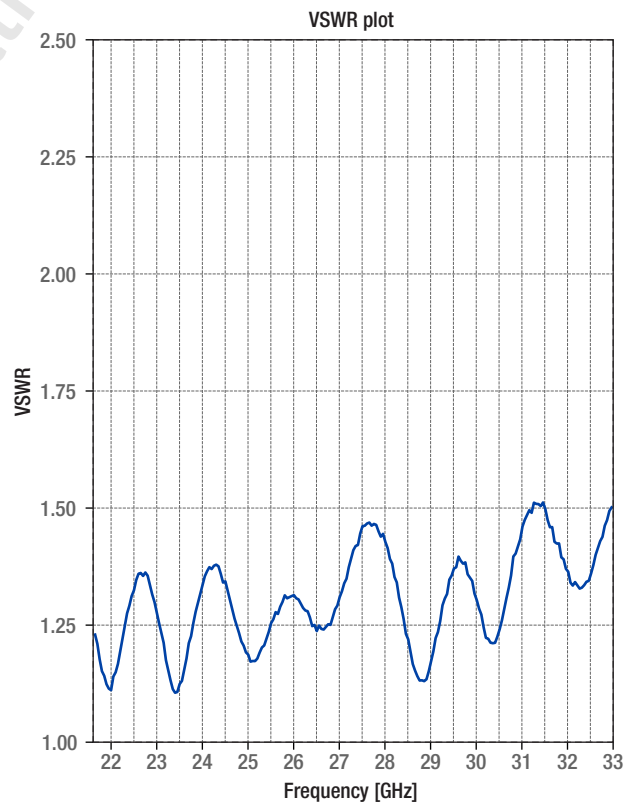
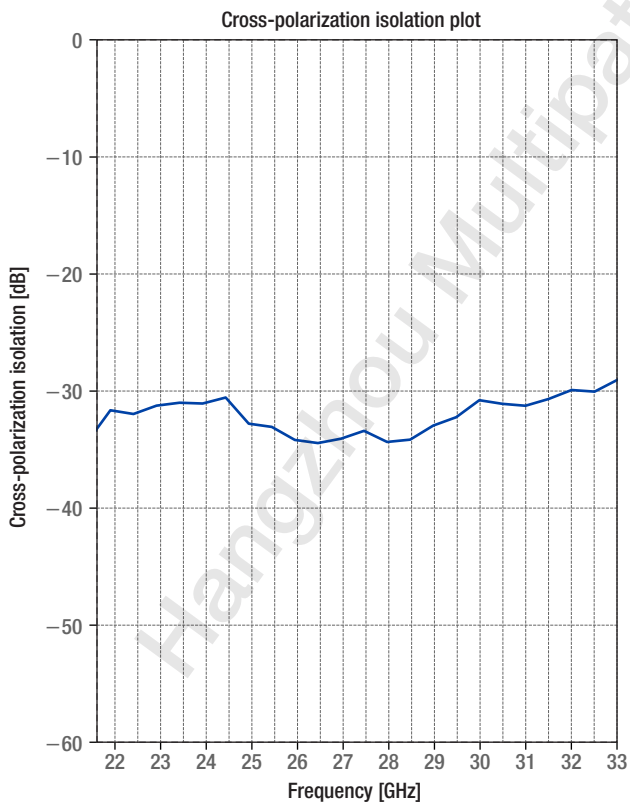
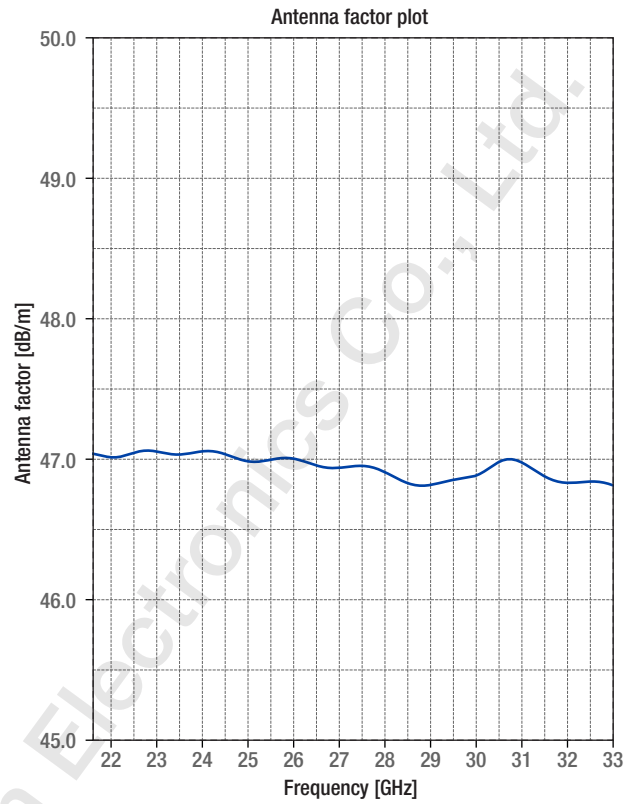
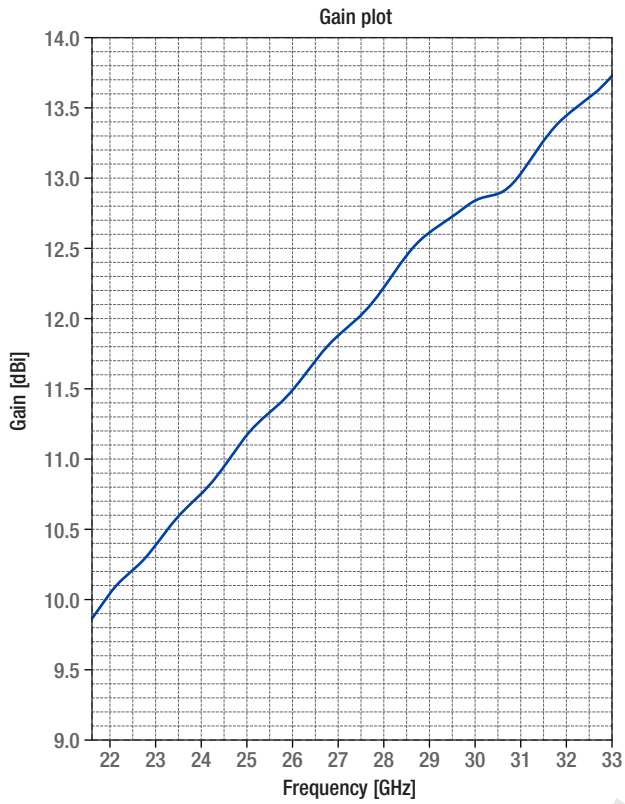


• Dimensional drawing: L type mounting bracket (Optional)



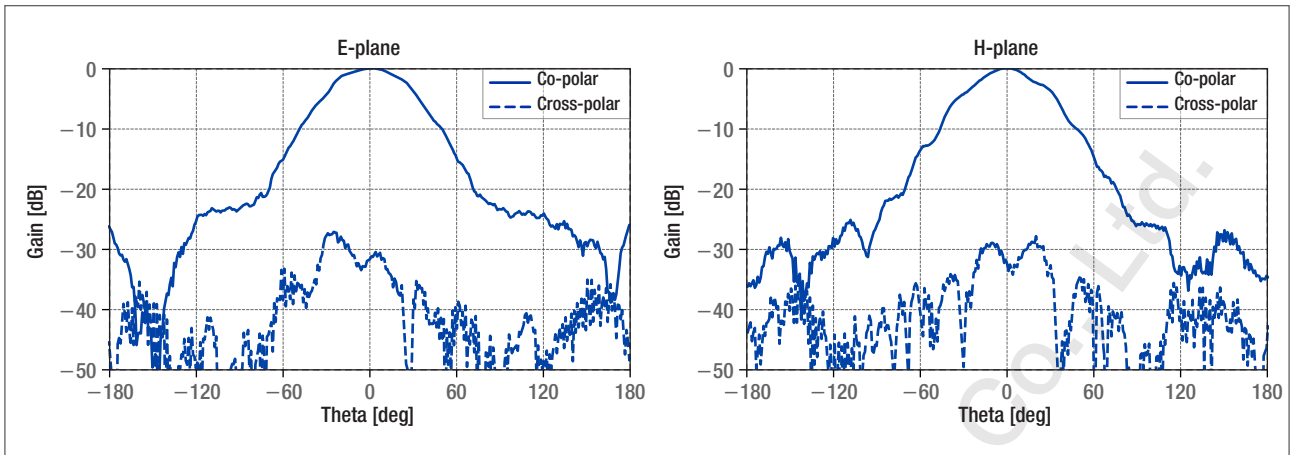
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

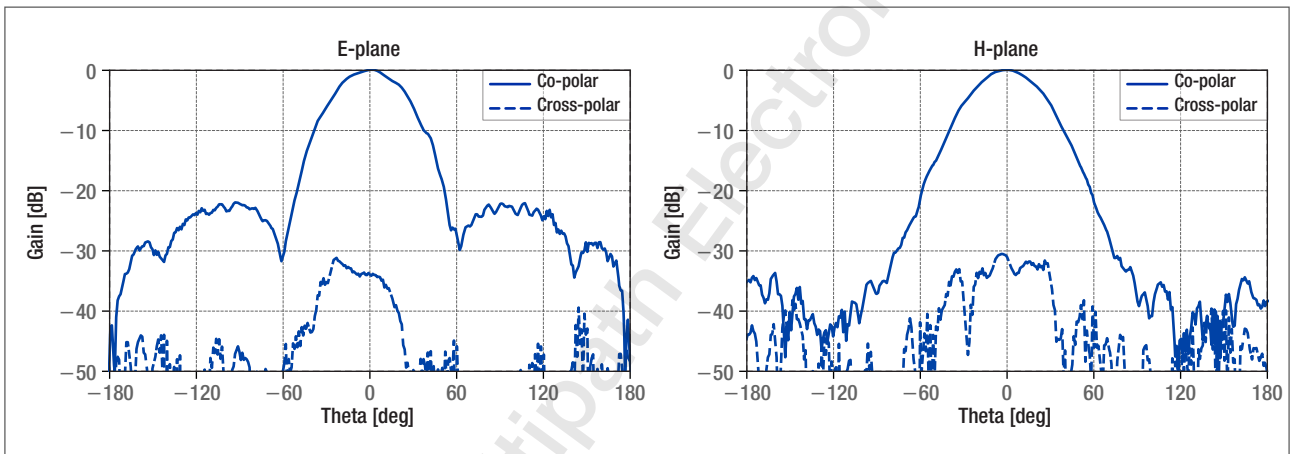


• Radiation patterns

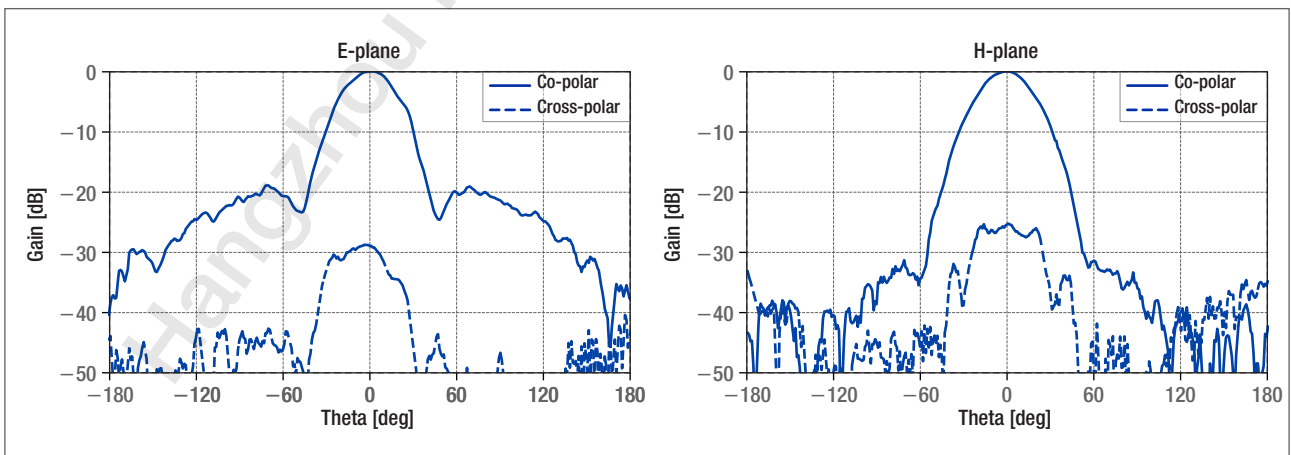
Patterns @ 22.0 GHz



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	10.01	47.02	-31.44	1.11
22.5	10.19	47.04	-31.75	1.31
23.0	10.36	47.06	-31.05	1.29
23.5	10.57	47.04	-30.81	1.10
24.0	10.74	47.06	-30.87	1.31
24.5	10.92	47.05	-30.37	1.33
25.0	11.15	47.00	-32.55	1.19
25.5	11.32	47.00	-32.82	1.23
26.0	11.48	47.01	-33.91	1.31
26.5	11.69	46.97	-34.17	1.24
27.0	11.87	46.95	-33.81	1.29
27.5	12.02	46.96	-33.15	1.44
28.0	12.21	46.92	-34.08	1.44
28.5	12.44	46.84	-33.89	1.23
29.0	12.61	46.83	-32.71	1.15
29.5	12.72	46.86	-32.01	1.35
30.0	12.84	46.89	-30.60	1.31
30.5	12.89	46.98	-30.90	1.22
31.0	13.03	46.99	-31.06	1.43
31.5	13.27	46.89	-30.50	1.50
32.0	13.45	46.84	-29.75	1.36
32.5	13.58	46.85	-29.88	1.34
33.0	13.73	46.83	-28.89	1.49

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
22.0	53.76°	50.45°
27.0	44.00°	43.22°
33.0	34.46°	34.03°



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.