

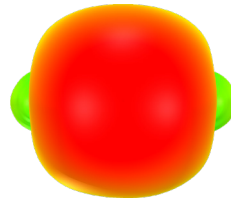


Standard Gain Horn Antennas

11.9 - 18.0 GHz, 10 dBi



Radiation pattern



QR code



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

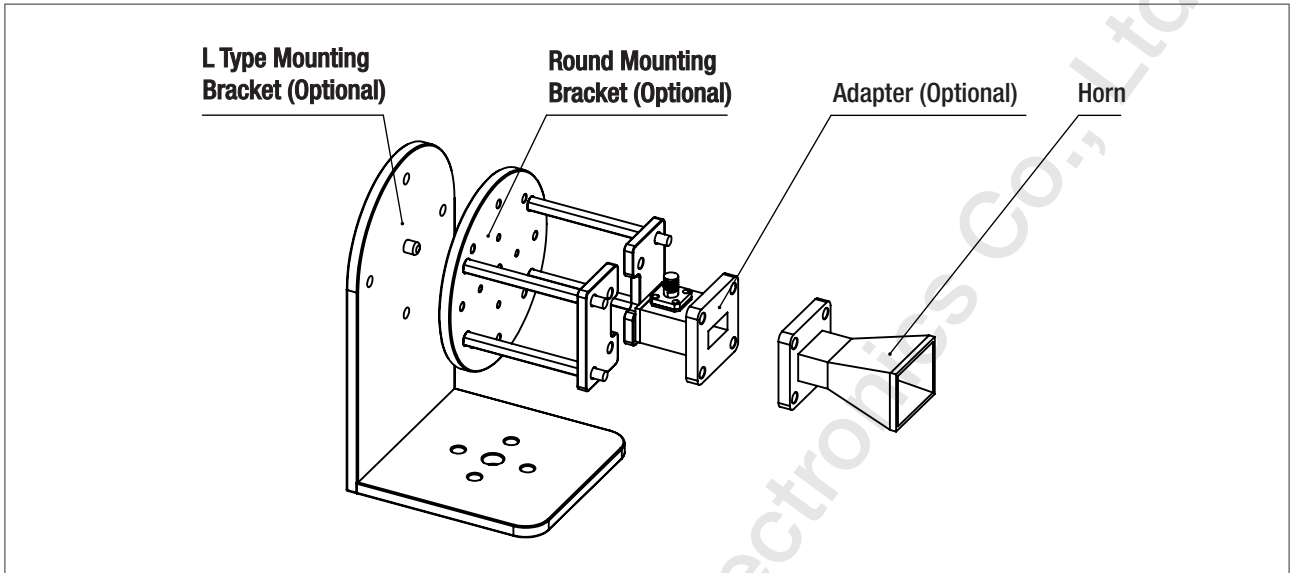
⚙️ Product specifications

Part number	HA-WR62-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	11.9 – 18.0	3dB beamwidth [deg]	E-plane: 49 Typ. H-plane: 44 Typ.
Waveguide band	WR62	Cross-polarization isolation [dB]	35 Typ.
Dimensions (H x W x L) [mm; inch]	33.3 x 33.3 x 85.93; 1.31 x 1.31 x 3.38	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.08; 0.176	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

Outline dimensions

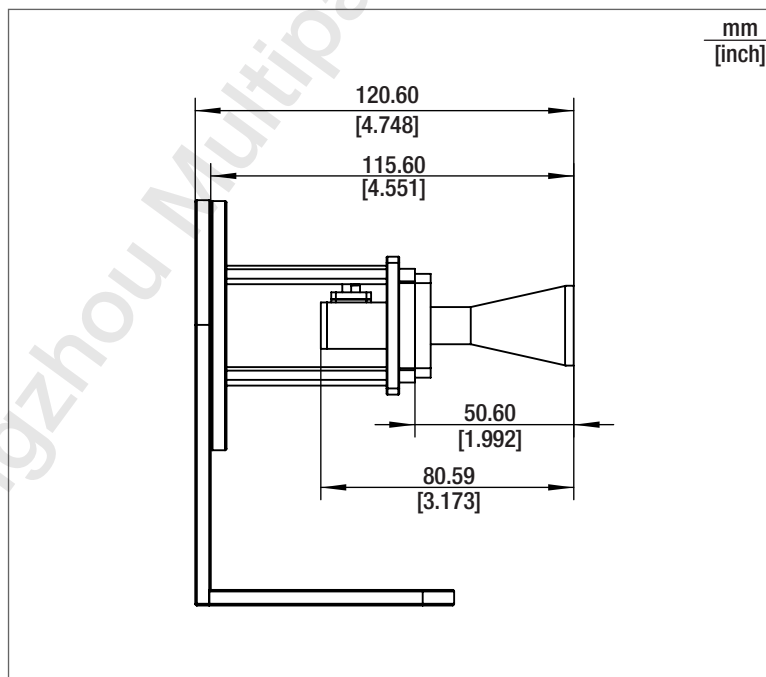
• Assembly dimensional drawing

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.

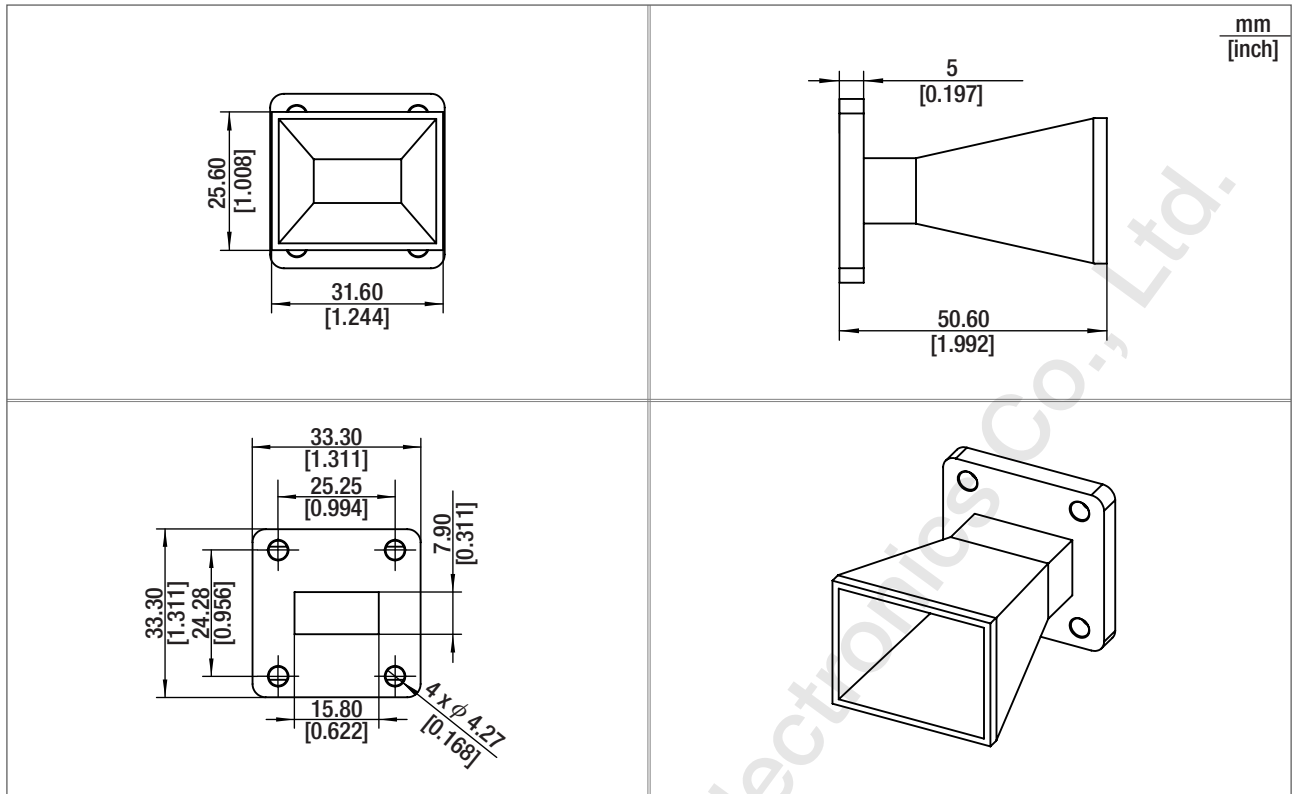


Side view of the mounting system.

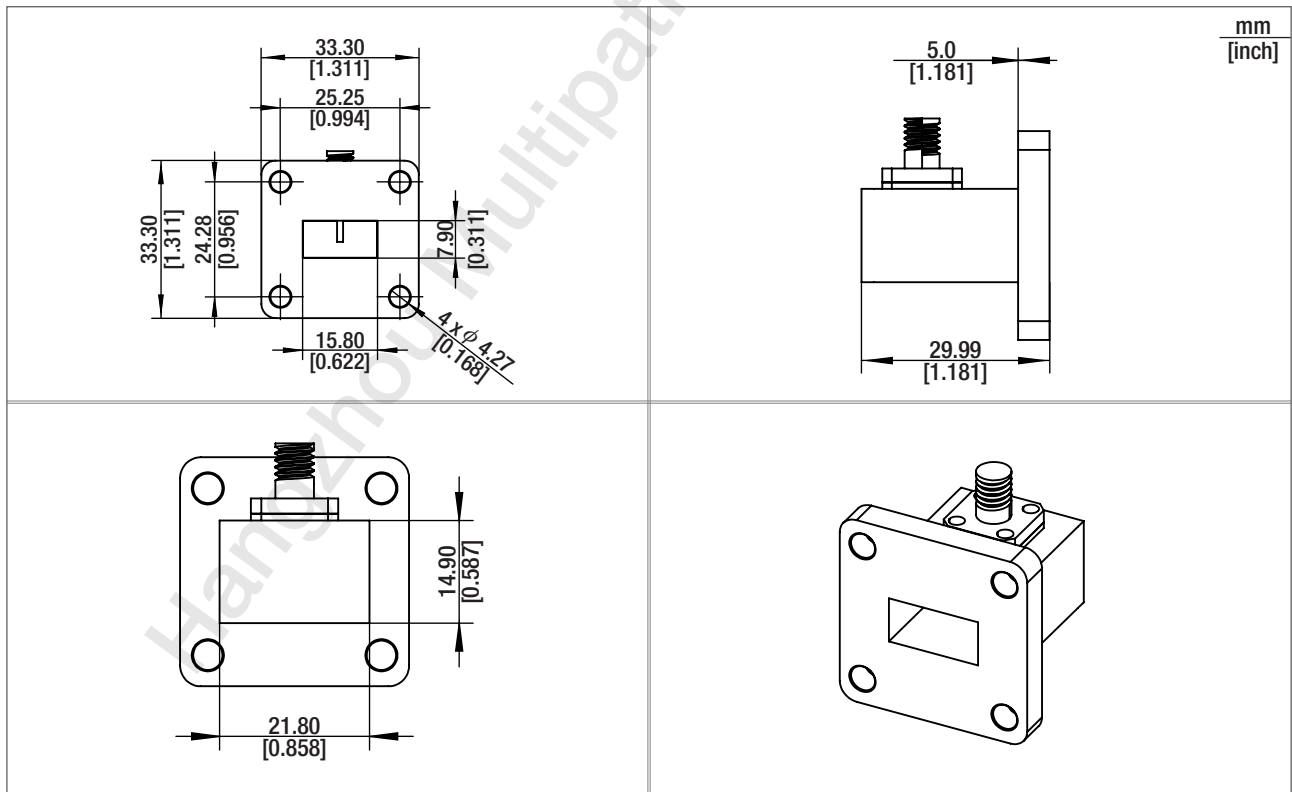
Detailed dimensions of the components will be given in subsequent diagrams.



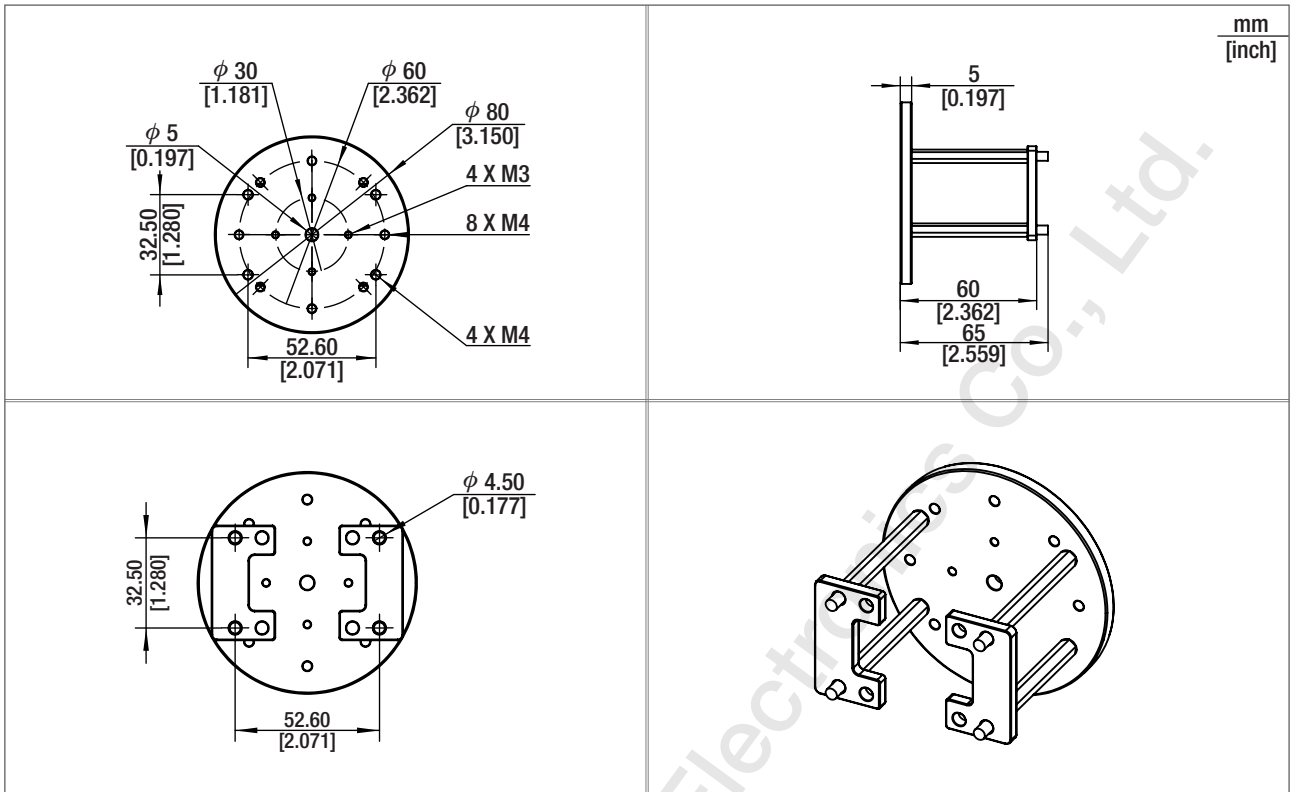
• Dimensional drawing: horn, HA-WR62-10



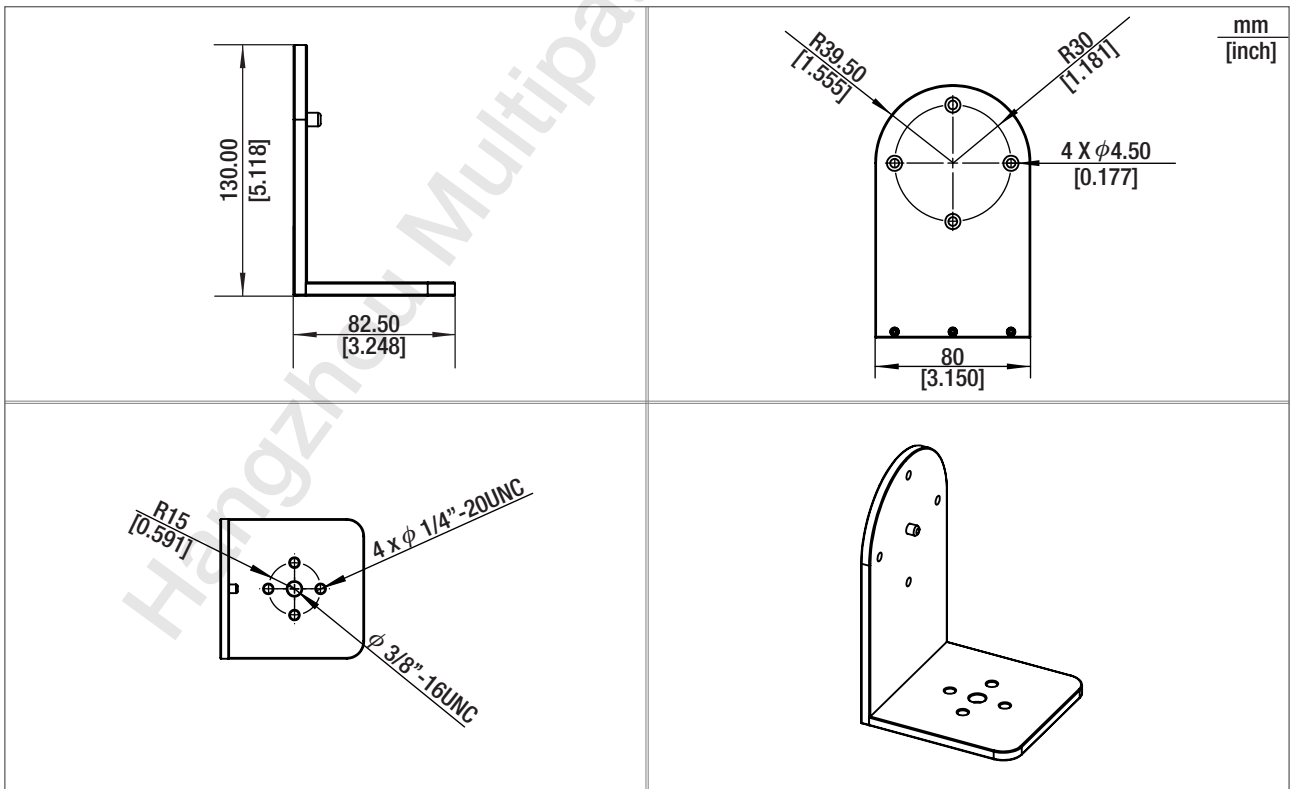
• Dimensional drawing: adapter, WR62-SMA-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

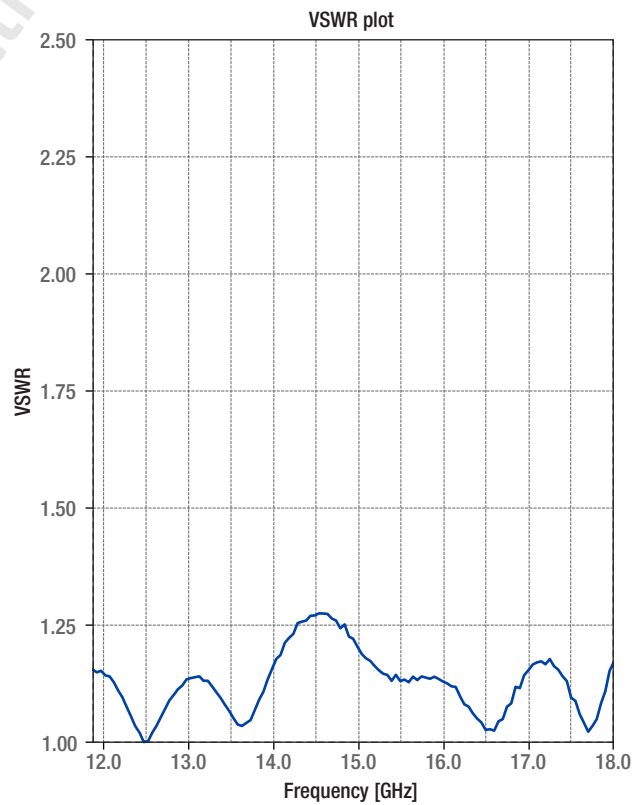
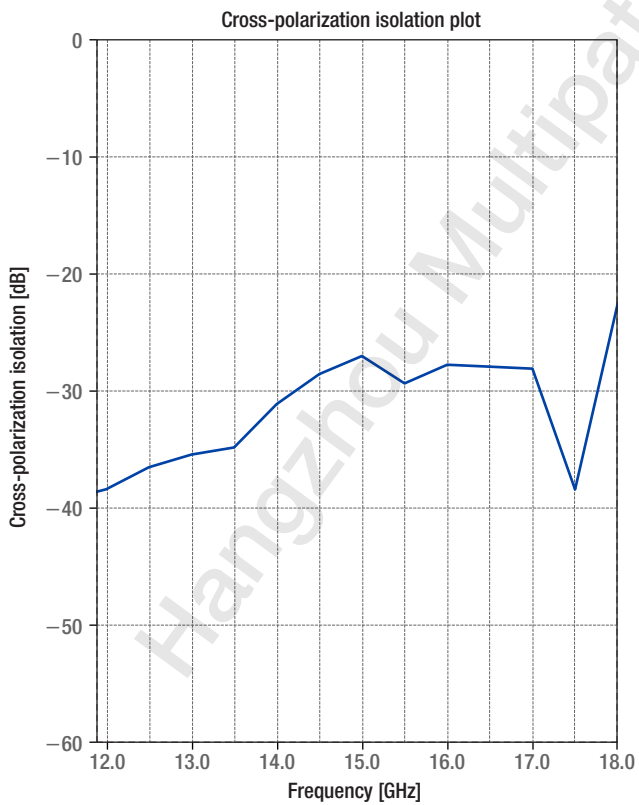
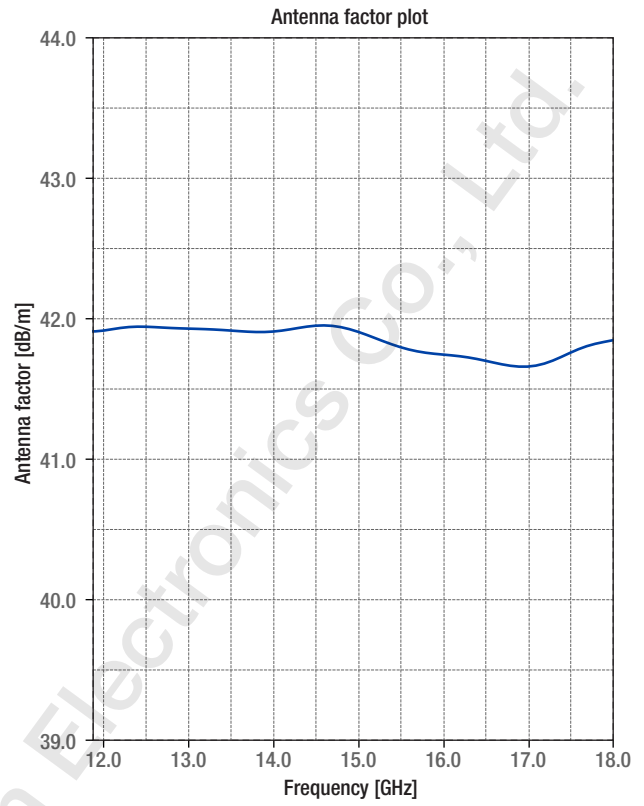
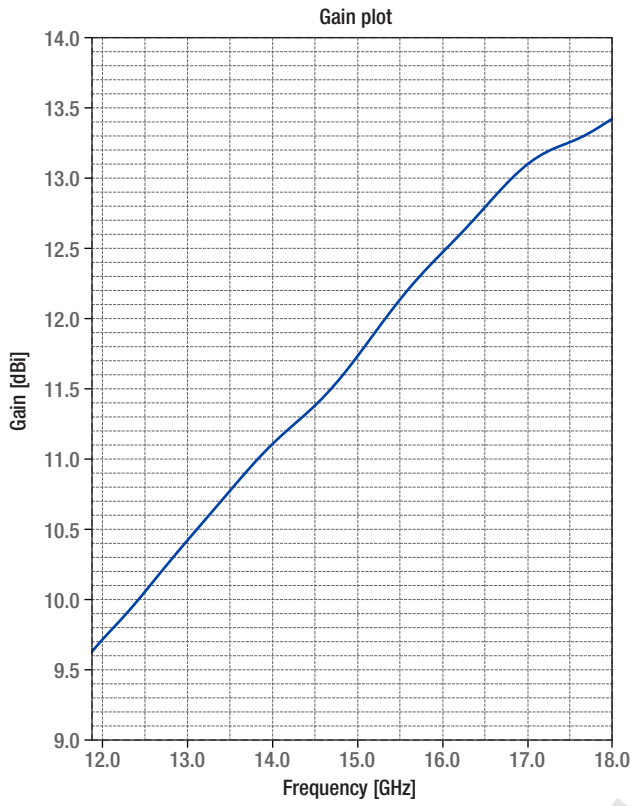


• Dimensional drawing: L type mounting bracket (Optional)



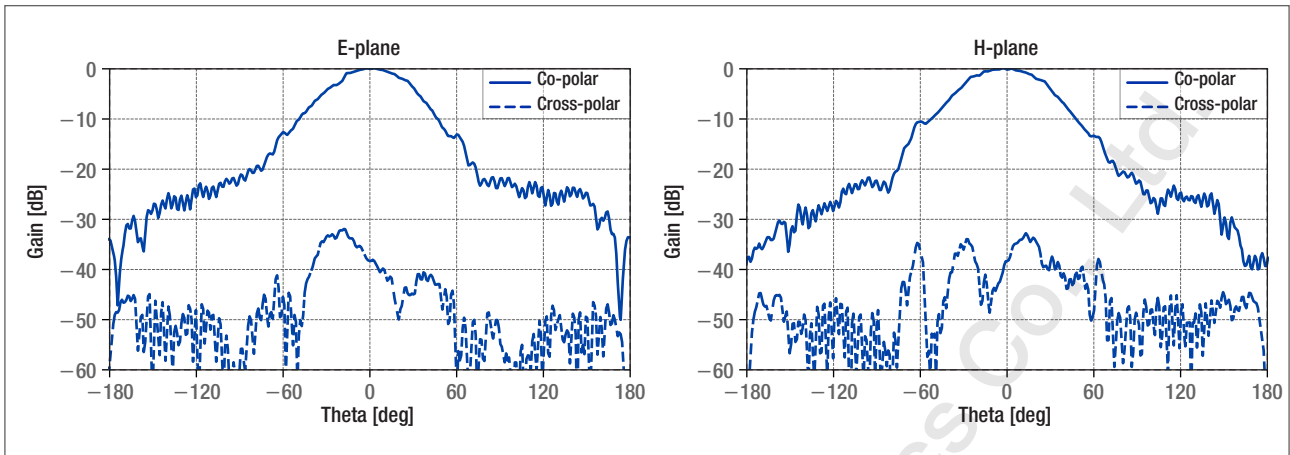
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

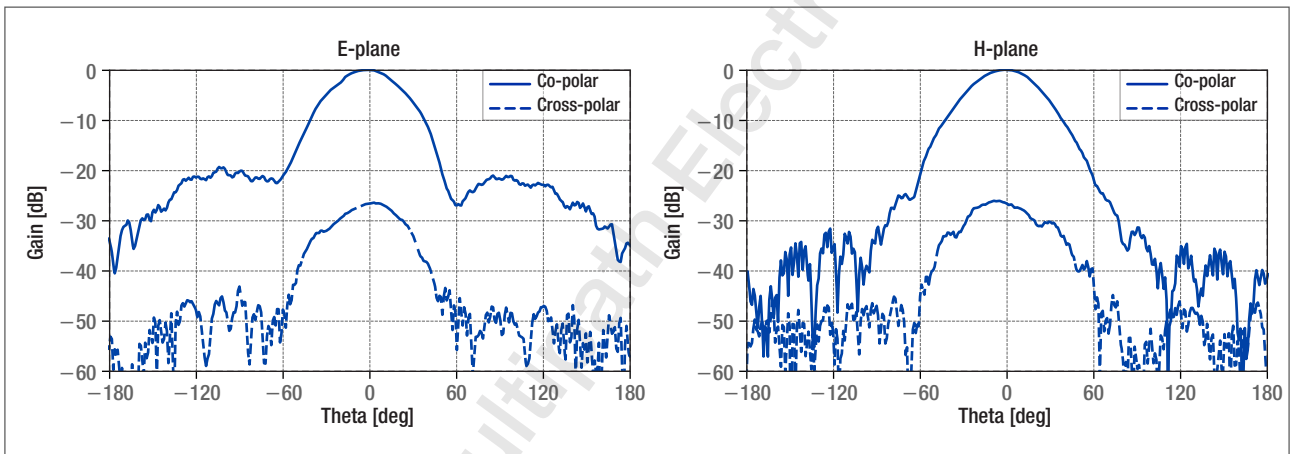


• Radiation patterns

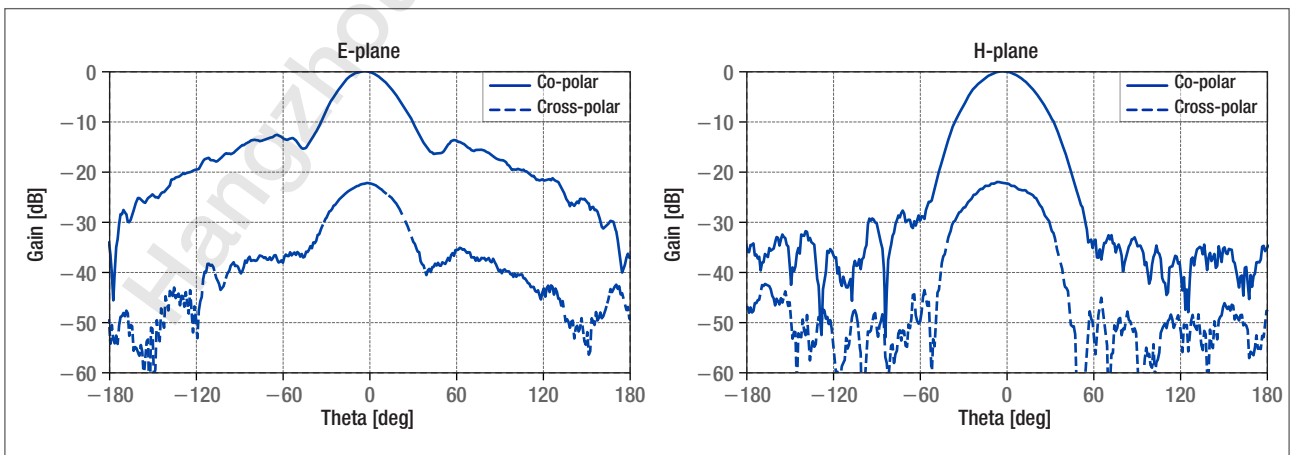
Patterns @ 12.0 GHz



Patterns @ 15.0 GHz



Patterns @ 18.0 GHz



• Data table


Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
12.0	9.84	41.93	-37.58	1.15
12.3	10.03	41.95	-36.50	1.08
12.6	10.24	41.95	-35.57	1.03
12.9	10.46	41.95	-34.94	1.12
13.2	10.66	41.94	-34.50	1.13
13.5	10.87	41.93	-34.15	1.07
13.8	11.07	41.92	-32.01	1.07
14.1	11.24	41.93	-30.09	1.19
14.4	11.40	41.96	-28.60	1.26
14.7	11.57	41.96	-27.52	1.26
15.0	11.79	41.92	-26.62	1.20
15.3	12.03	41.86	-27.98	1.15
15.6	12.25	41.80	-28.57	1.13
15.9	12.45	41.77	-27.65	1.14
16.2	12.63	41.75	-27.40	1.10
16.5	12.82	41.72	-27.50	1.03
16.8	13.01	41.69	-27.60	1.09
17.1	13.16	41.69	-29.65	1.17
17.4	13.25	41.75	-35.61	1.14
17.7	13.33	41.82	-31.49	1.03
18.0	13.43	41.86	-22.32	1.17

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
12.0	48.95°	52.57°
15.0	41.17°	43.77°
18.0	33.74°	37.91°



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.