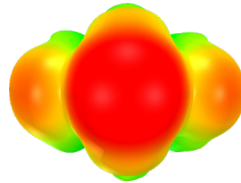
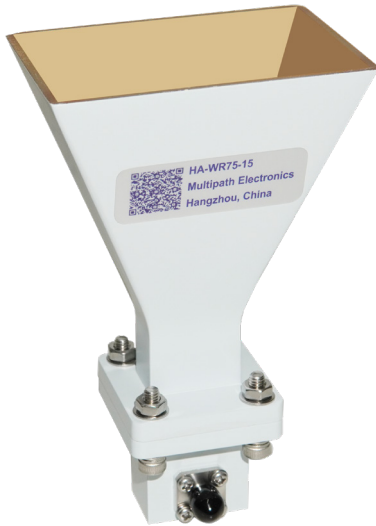




# Standard Gain Horn Antennas

9.84 - 15.0 GHz, 15 dBi

Radiation pattern



QR code



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

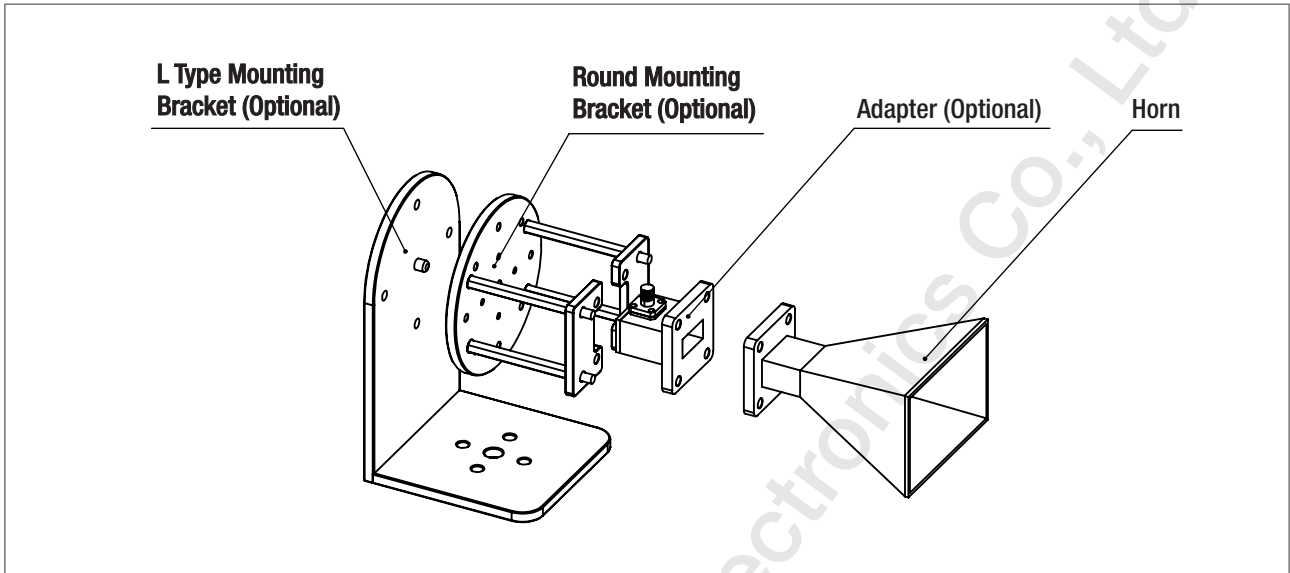
## ⚙️ Product specifications

Part number	HA-WR75-15	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	15 Typ.
Frequency range [GHz]	9.84 – 15.0	3dB beamwidth [deg]	E-plane: 27 Typ. H-plane: 26 Typ.
Waveguide band	WR75	Cross-polarization isolation [dB]	45 Typ.
Dimensions (H x W x L) [mm; inch]	73.8 x 50.7 x 120.73; 2.91 x 2.00 x 4.75	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.14; 0.309	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

## Outline dimensions

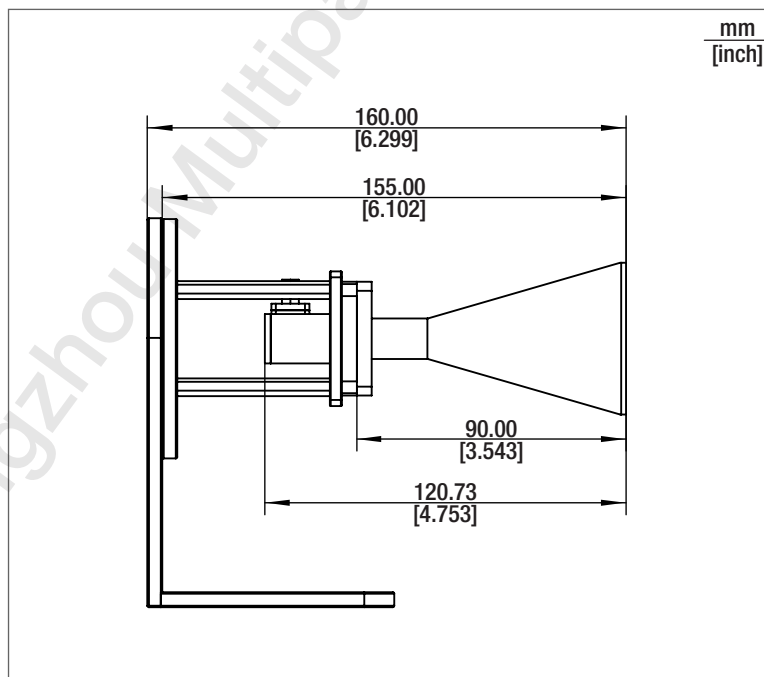
### • Assembly dimensional drawing

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.

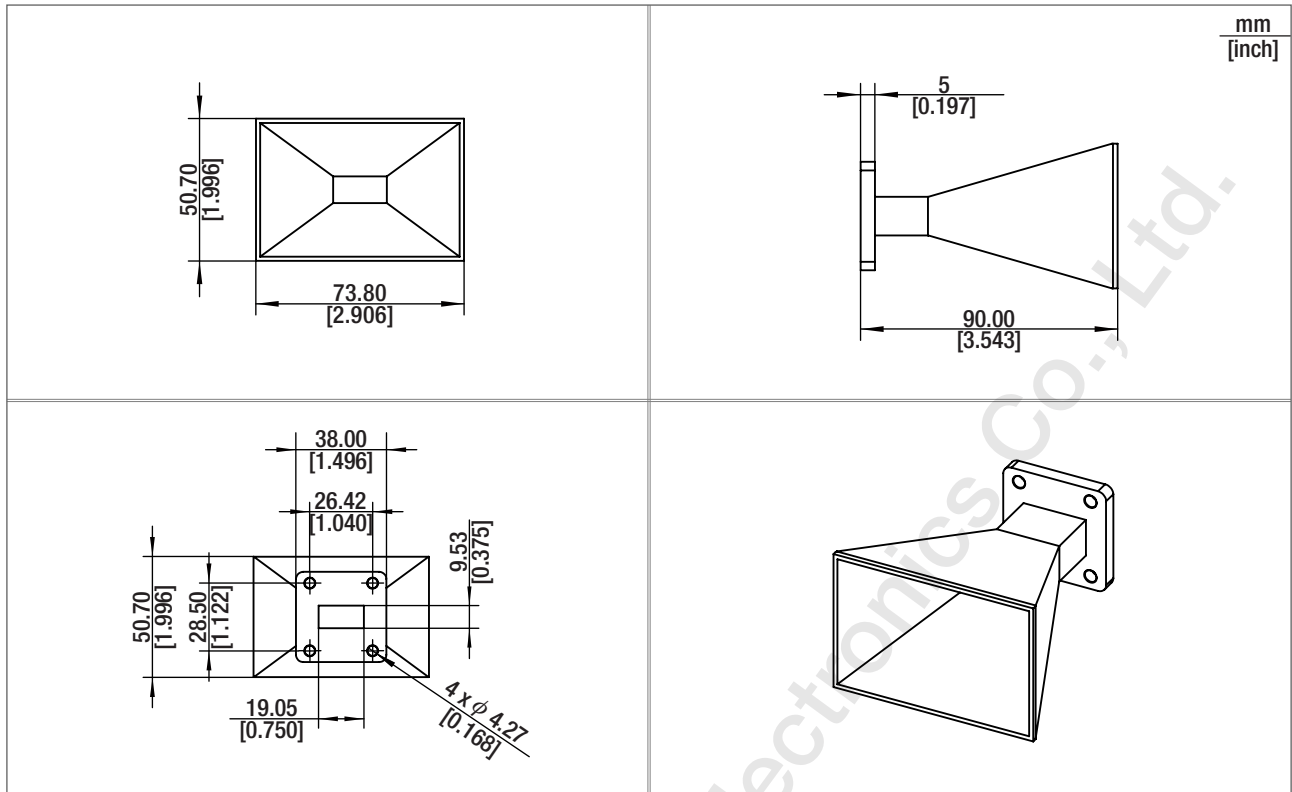


Side view of the mounting system.

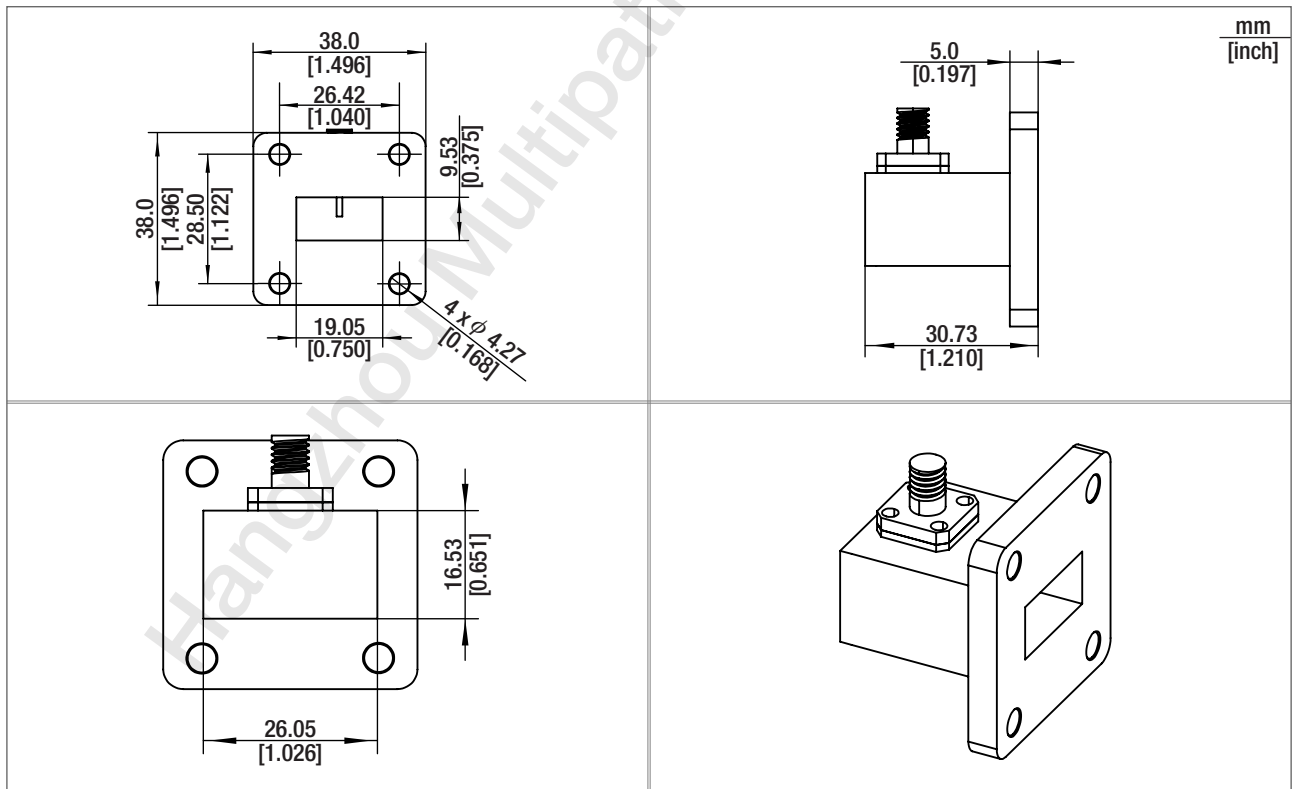
Detailed dimensions of the components will be given in subsequent diagrams.



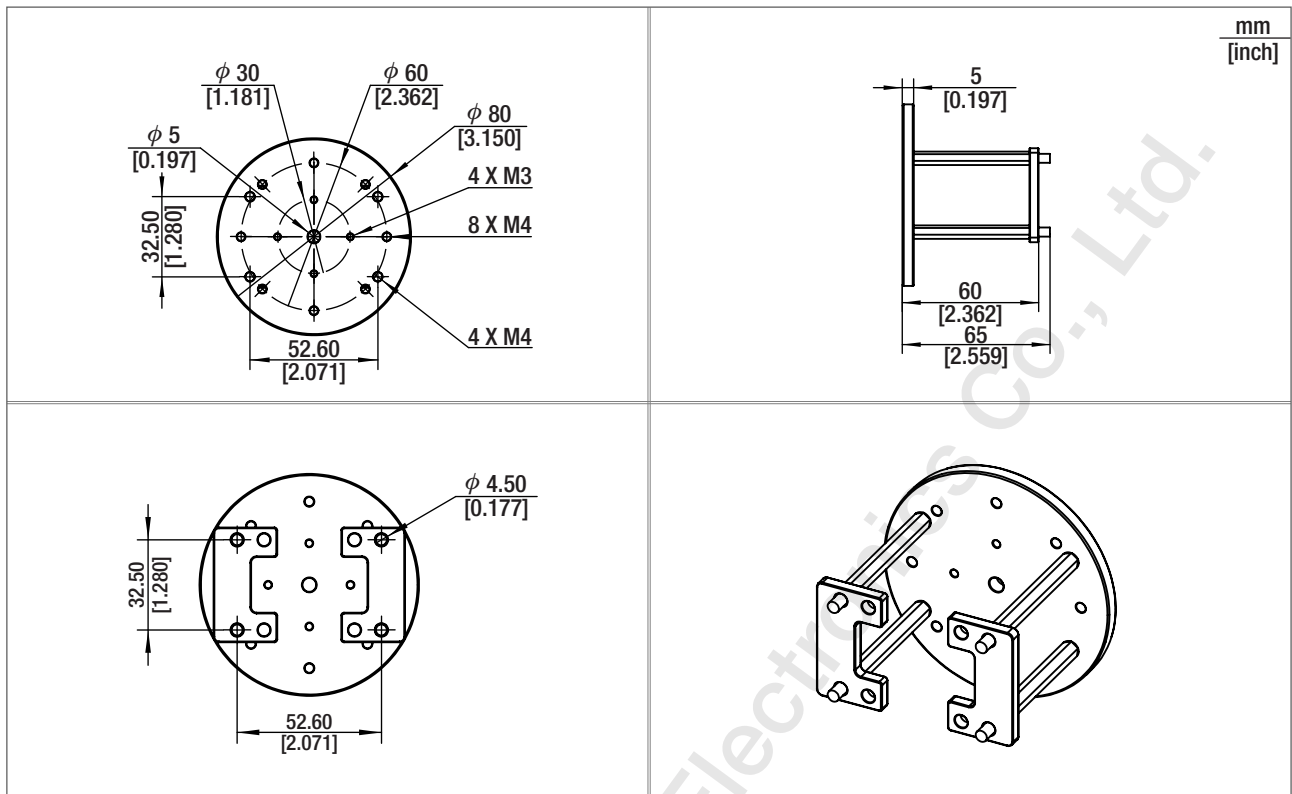
• Dimensional drawing: horn, HA-WR75-15



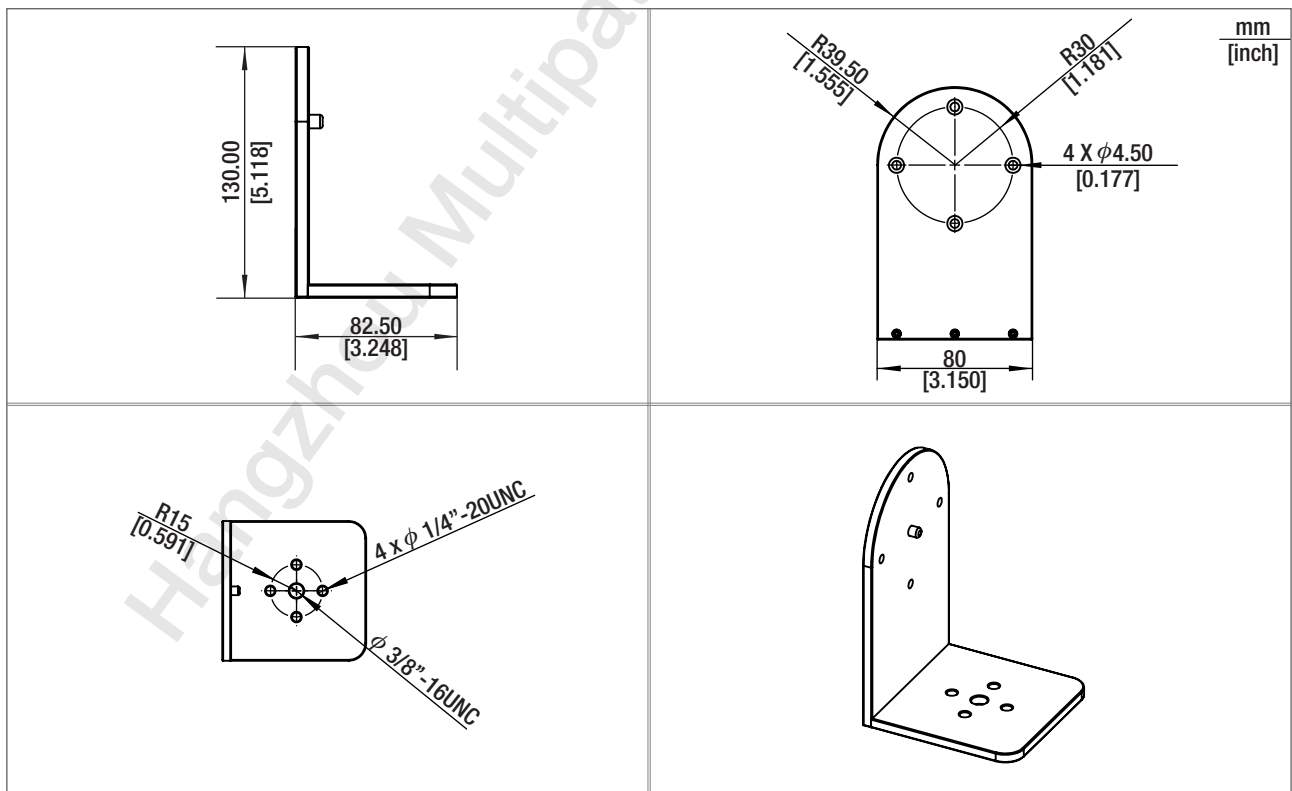
• Dimensional drawing: adapter, WR75-SMA-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

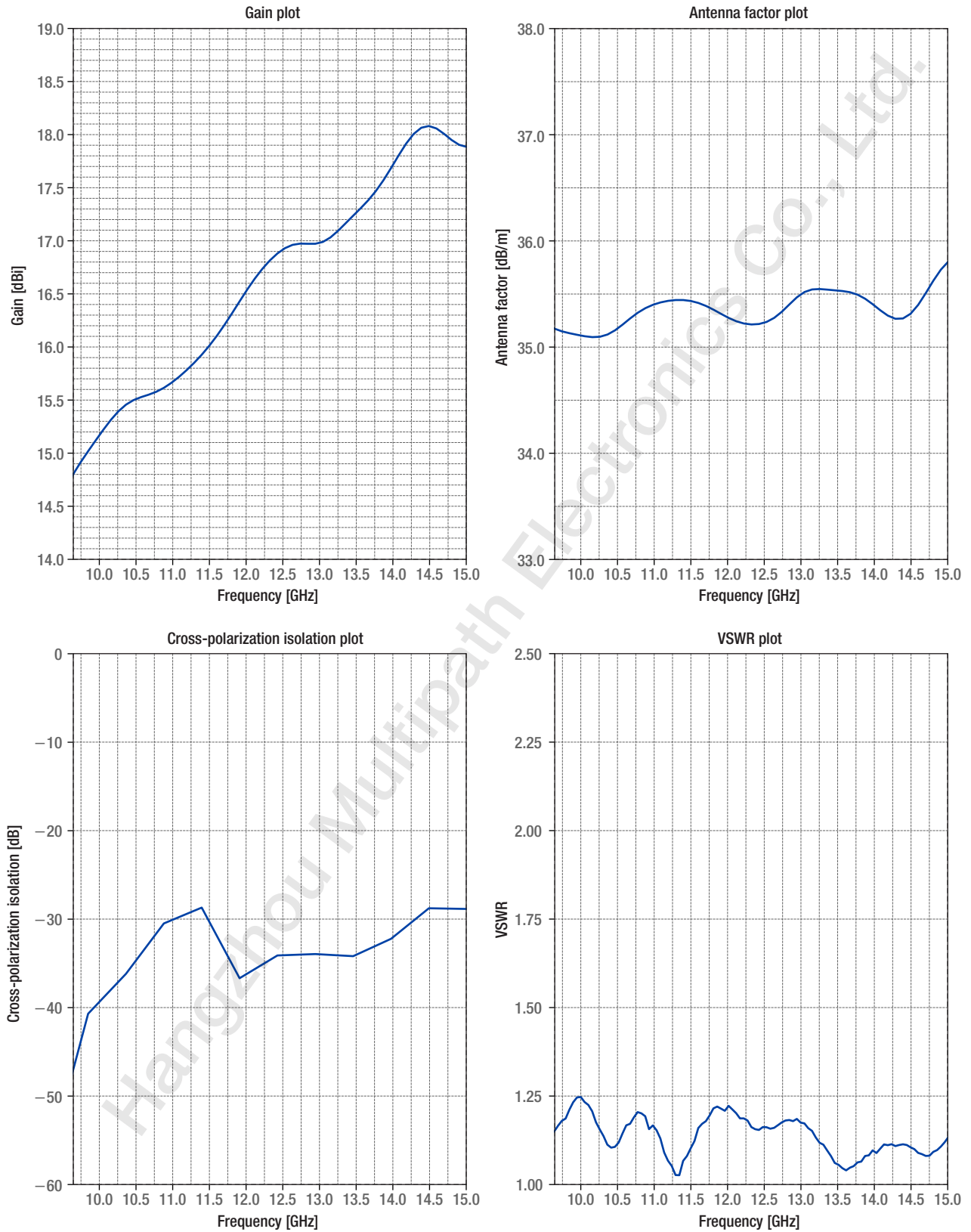


• Dimensional drawing: L type mounting bracket (Optional)



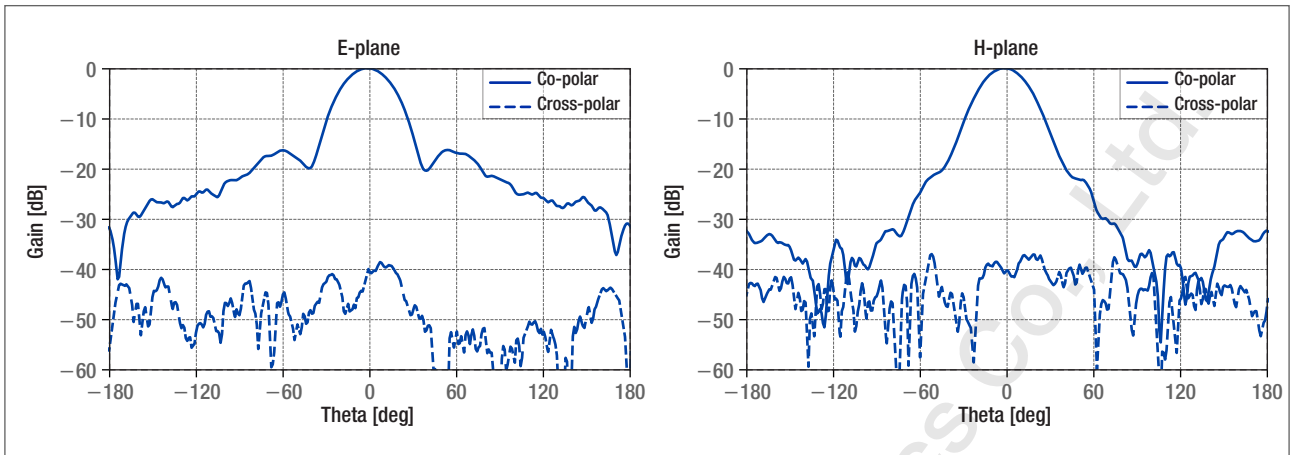
## Electrical characteristics

### Gain & Antenna factor & Cross-polarization isolation & VSWR

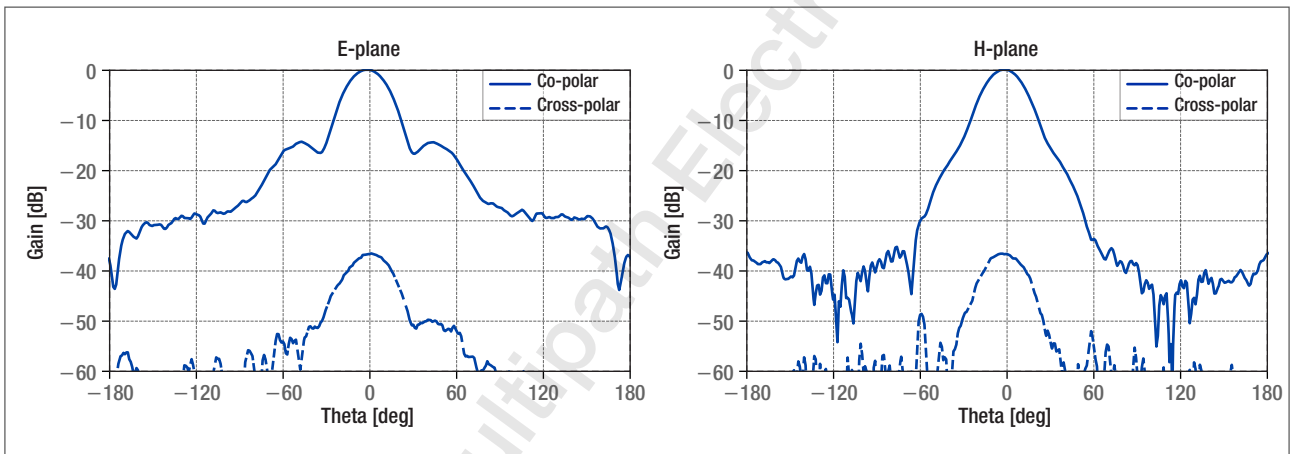


## • Radiation patterns

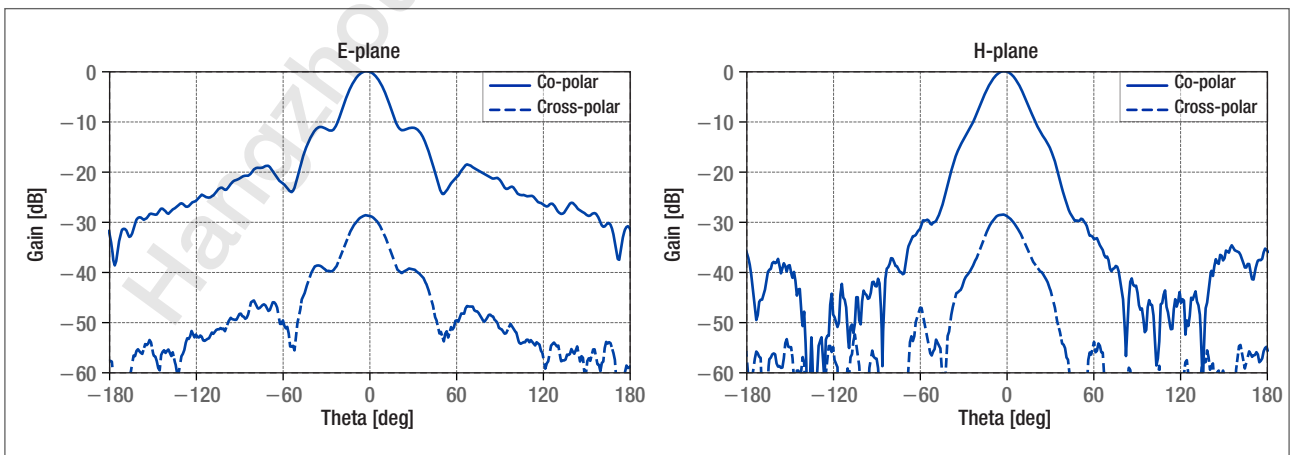
Patterns @ 10.0 GHz



Patterns @ 12.0 GHz



Patterns @ 15.0 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
10.0	15.05	35.14	-40.48	1.21
10.3	15.34	35.11	-37.79	1.20
10.6	15.53	35.17	-34.86	1.10
10.9	15.60	35.33	-31.46	1.20
11.2	15.74	35.43	-29.62	1.13
11.5	15.95	35.45	-28.55	1.07
11.8	16.23	35.40	-33.31	1.18
12.1	16.56	35.29	-35.98	1.22
12.4	16.83	35.22	-34.44	1.16
12.7	16.98	35.29	-33.87	1.16
13.0	16.99	35.48	-33.77	1.18
13.3	17.11	35.56	-33.91	1.12
13.6	17.32	35.54	-33.62	1.04
13.9	17.58	35.47	-32.45	1.08
14.2	17.93	35.31	-30.69	1.11
14.5	18.09	35.32	-28.63	1.10
14.8	17.96	35.63	-28.67	1.09

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
10.0	32.47°	30.85°
12.0	27.10°	26.05°
15.0	21.67°	21.85°



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