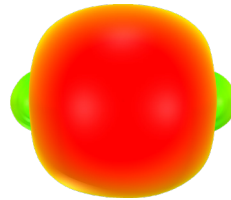


Standard Gain Horn Antennas

60.5 - 91.9 GHz, 10 dBi

Radiation pattern



QR code



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

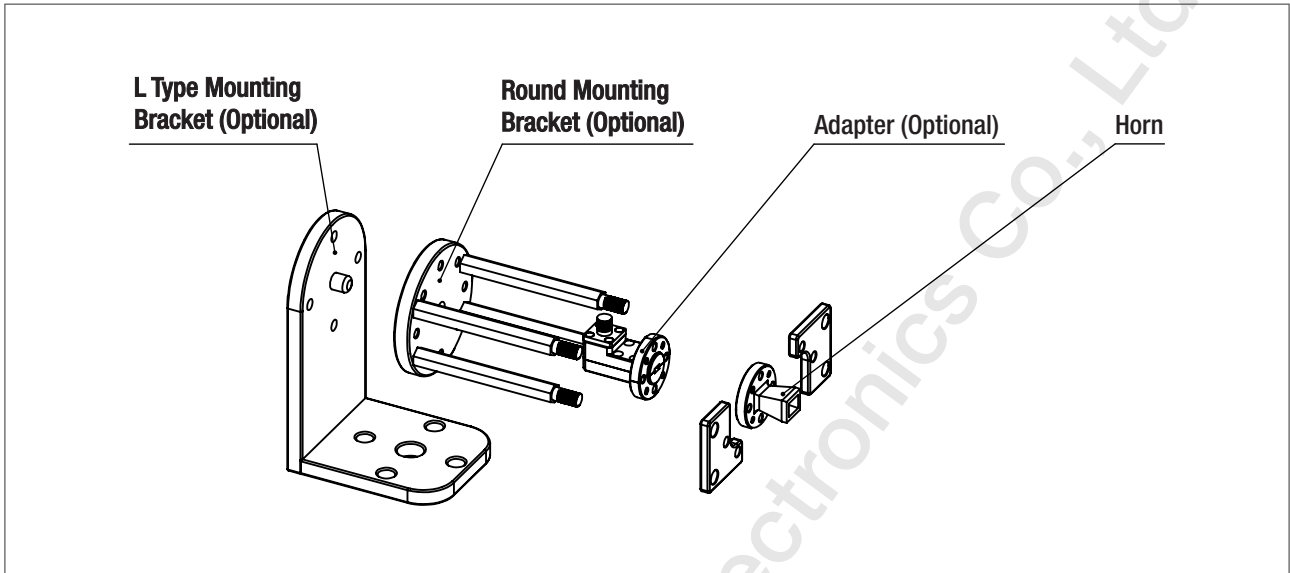
Product specifications

Part number	HA-WR12-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	60.5 – 91.9	3dB beamwidth [deg]	E-plane: 45 Typ. H-plane: 45 Typ.
Waveguide band	WR12	Cross-polarization isolation [dB]	45 Typ.
Dimensions (H x W x L) [mm; inch]	19.05 x 19.05 x 36.73; 0.75 x 0.75 x 1.45	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.03; 0.066	Impedance [Ohms]	50
Material	Cu (Gold plated)	RF connector	1.0-Female

Outline dimensions

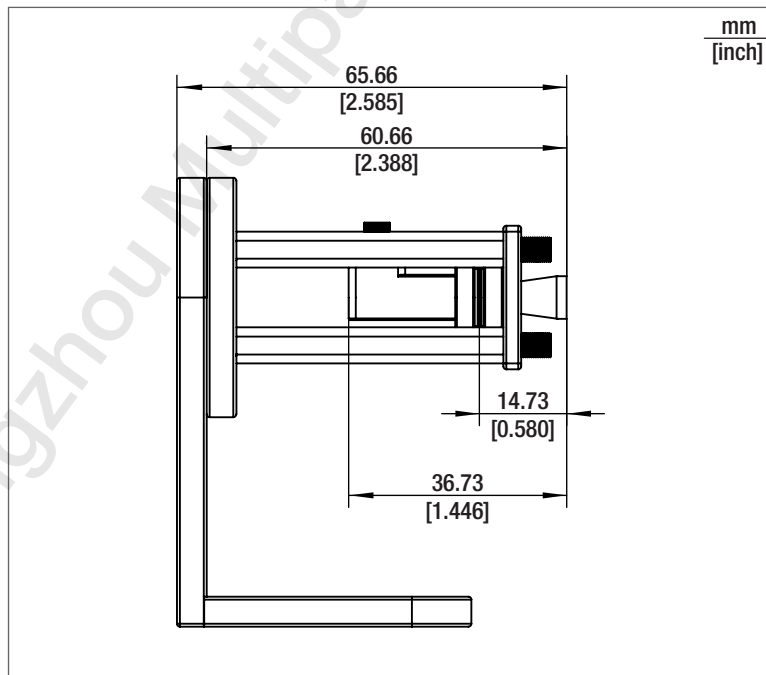
• Assembly dimensional drawing

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.

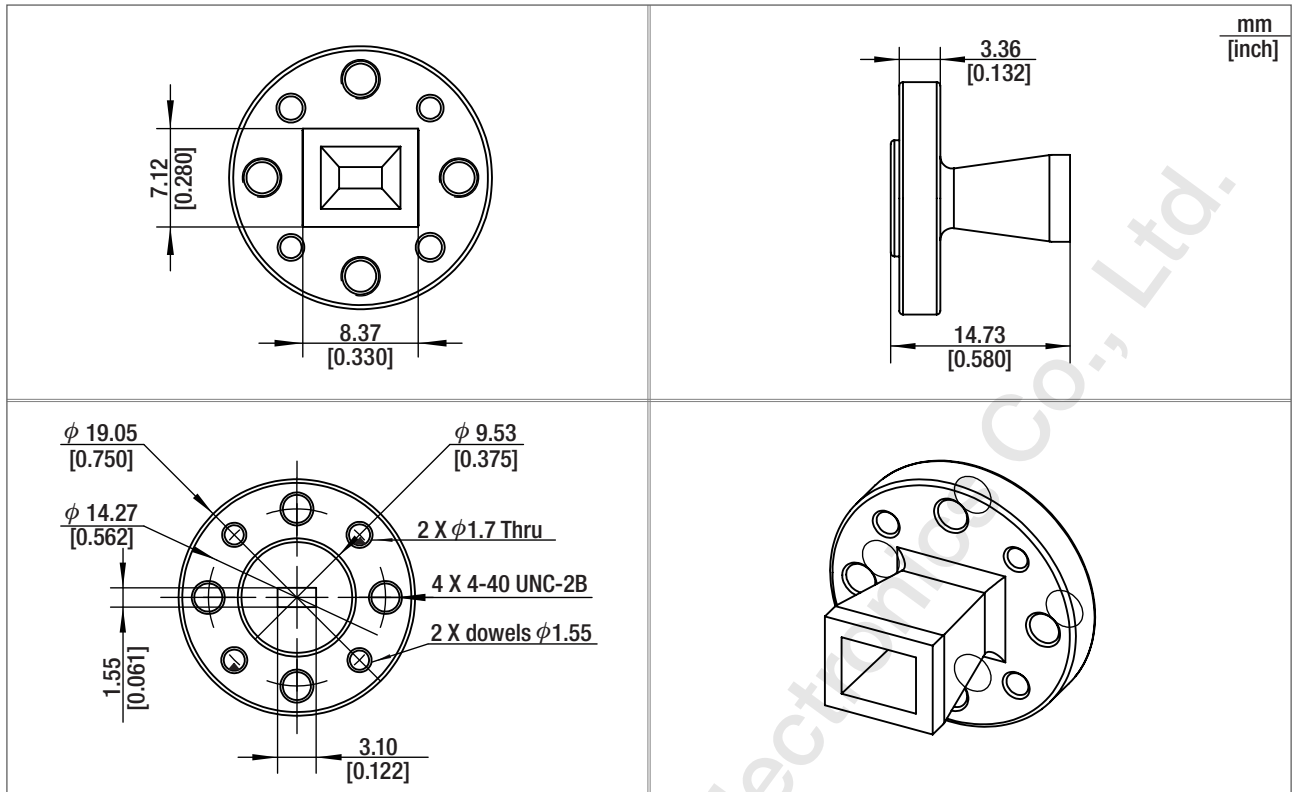


Side view of the mounting system.

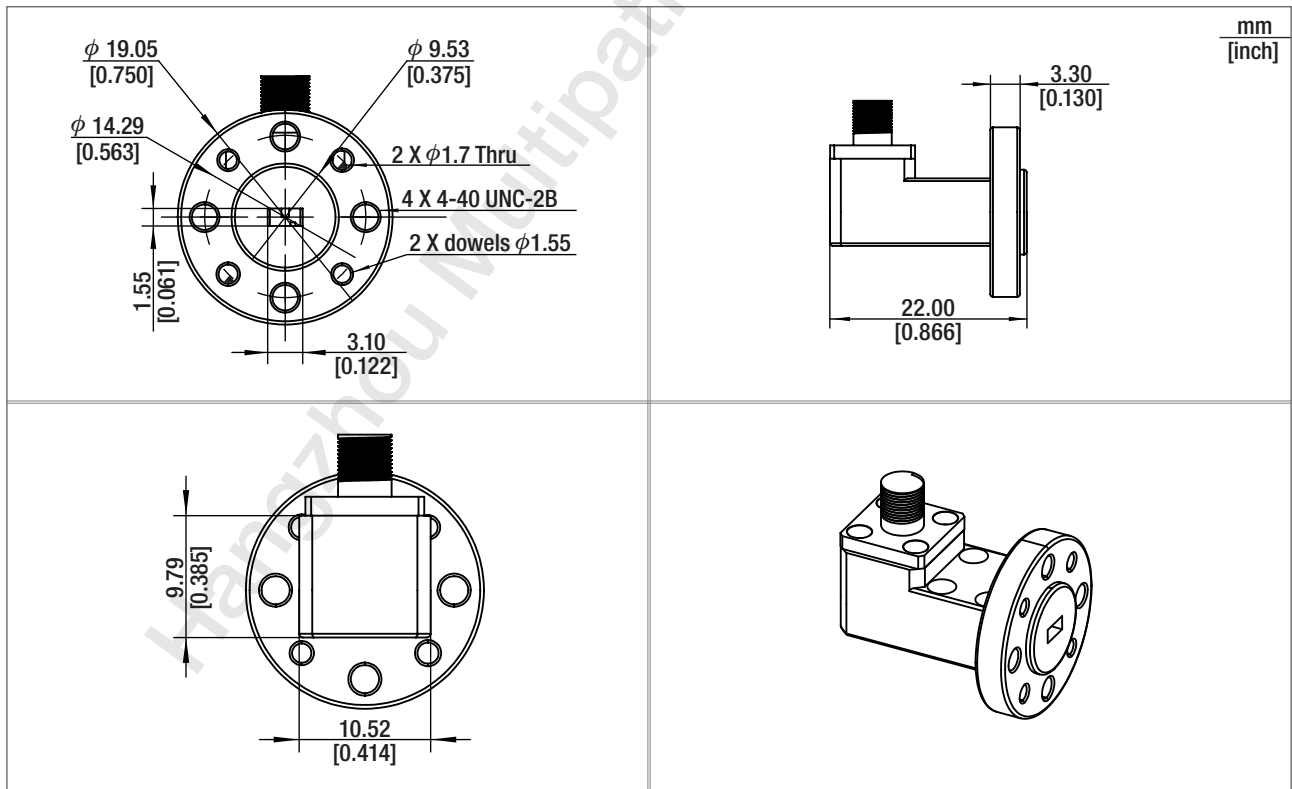
Detailed dimensions of the components will be given in subsequent diagrams.



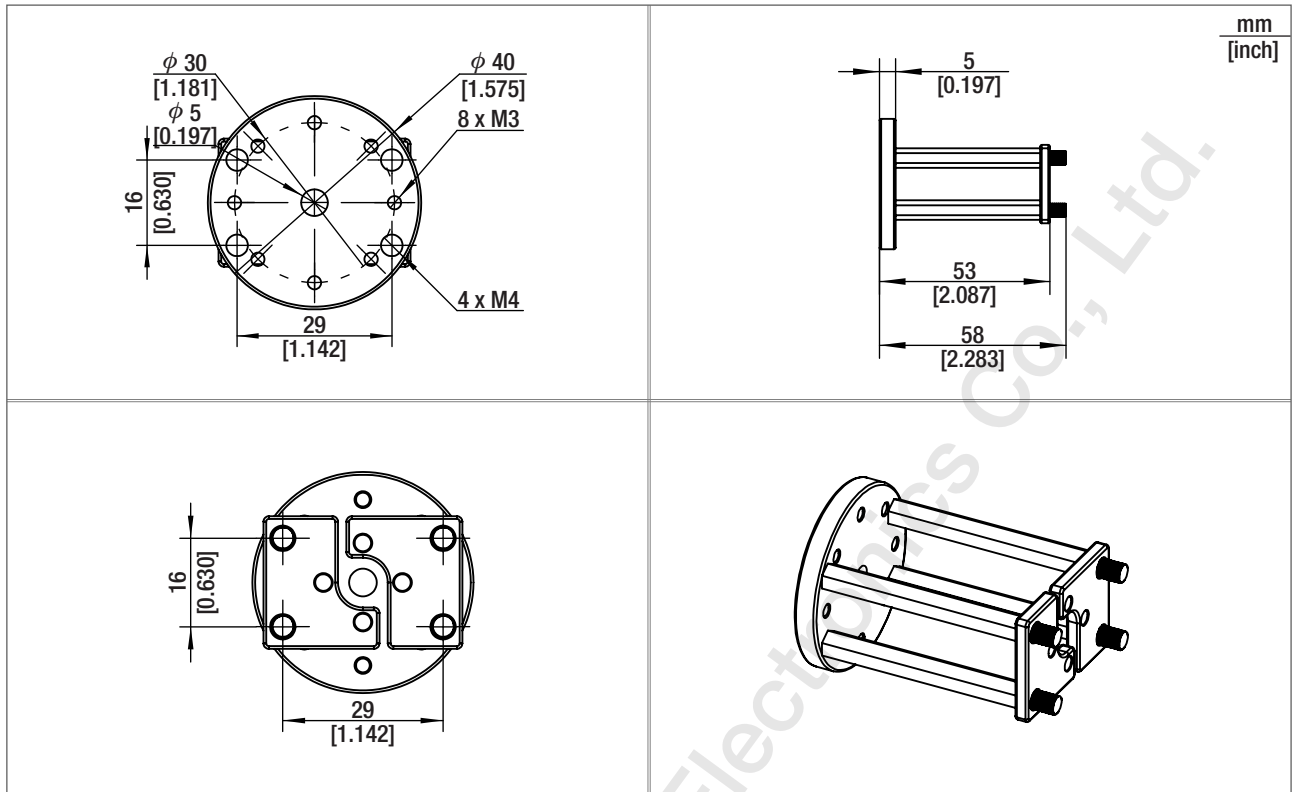
• Dimensional drawing: horn, HA-WR12-10



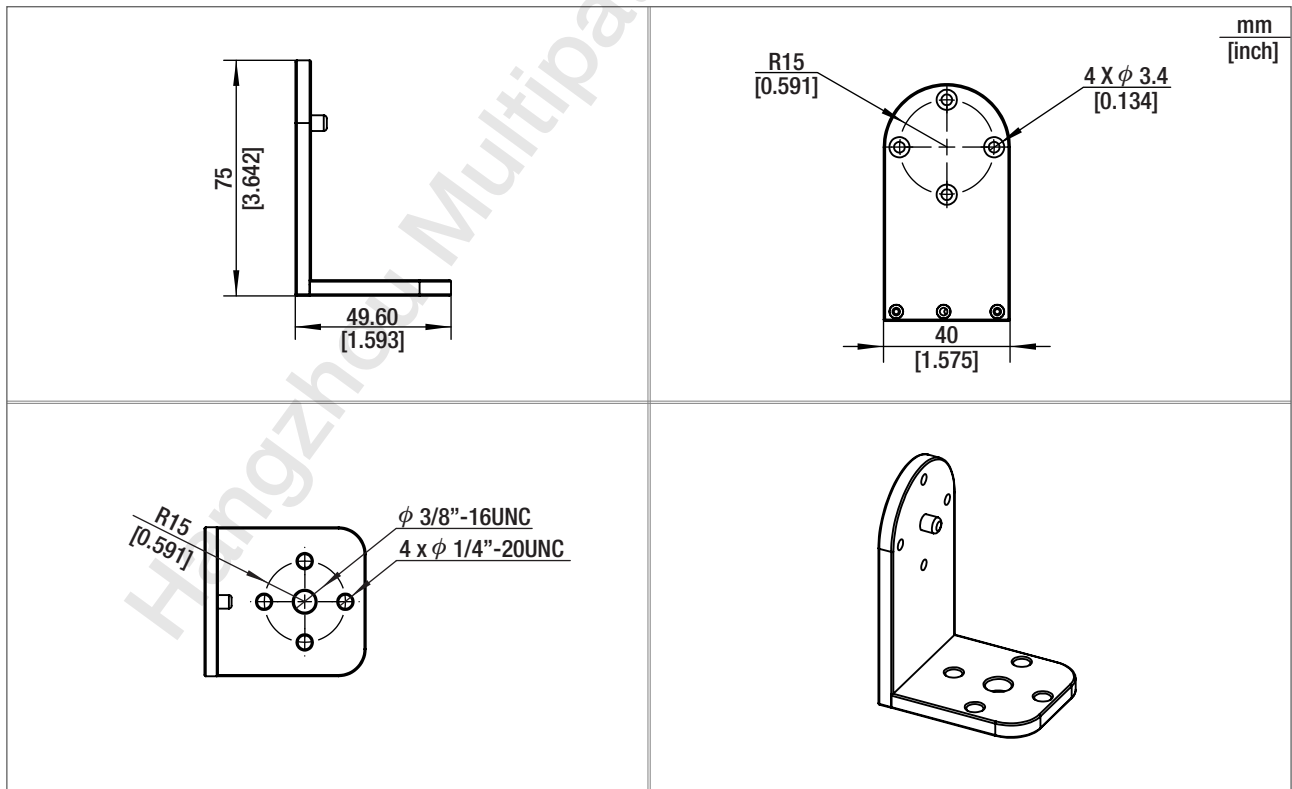
• Dimensional drawing: adapter, WR12-1.0-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

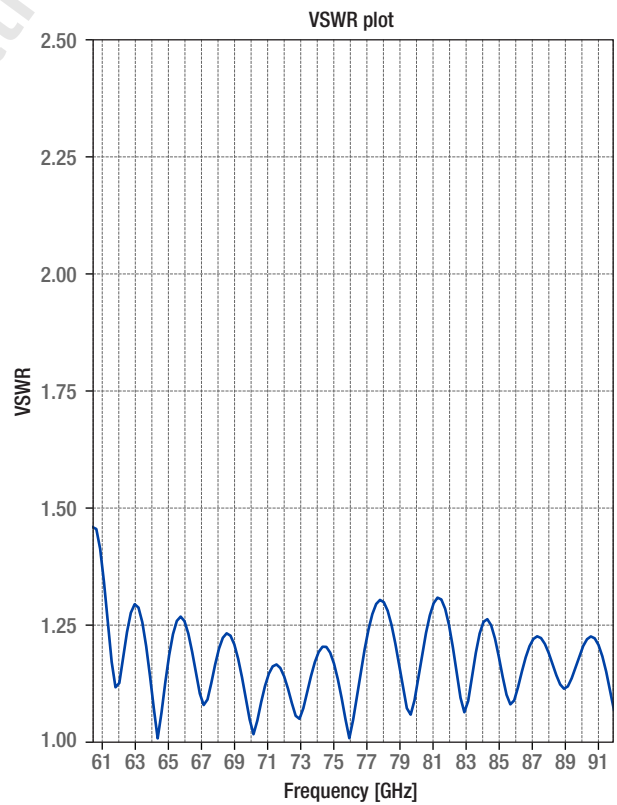
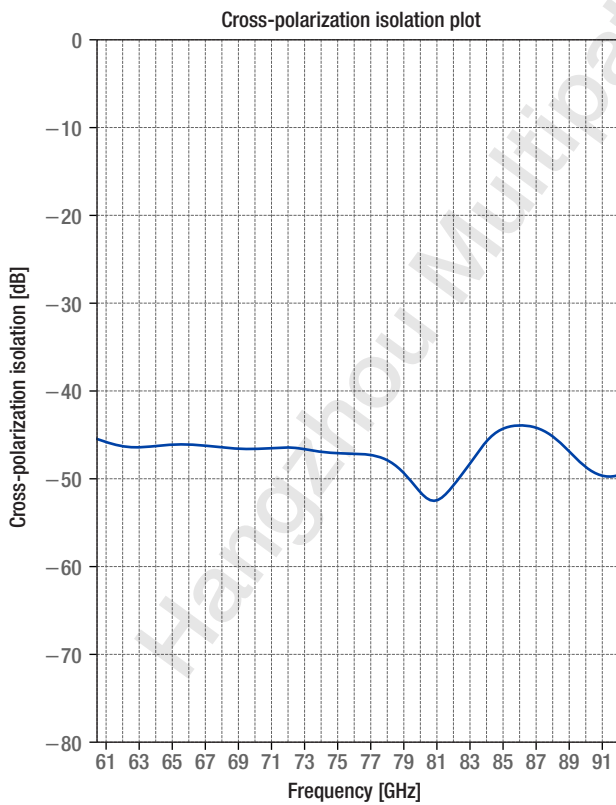
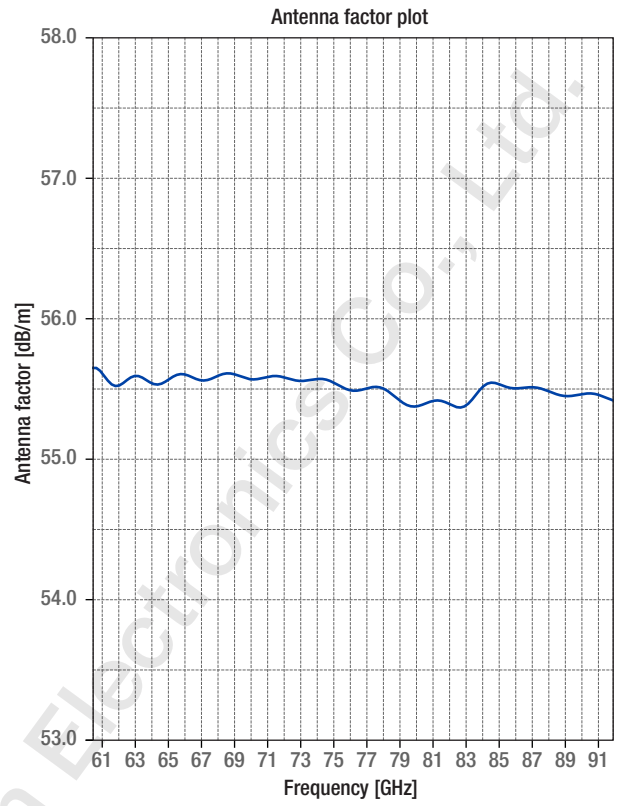
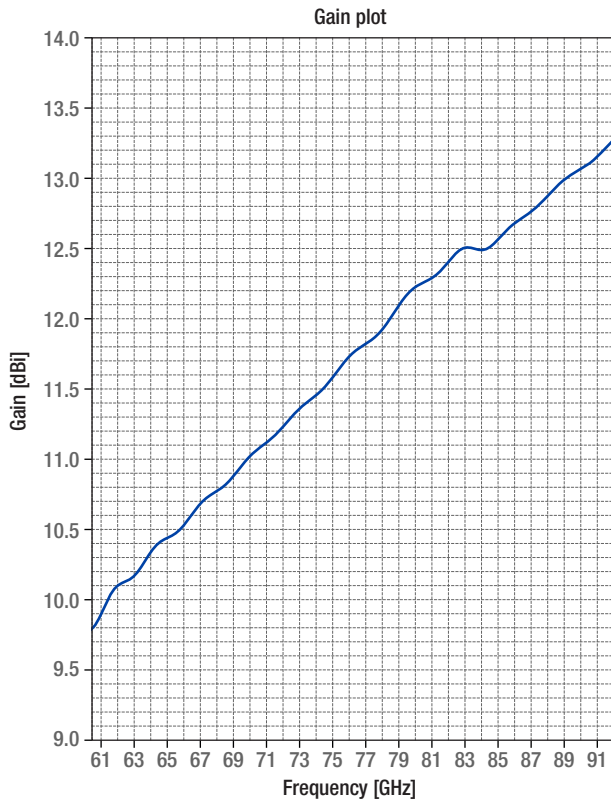


• Dimensional drawing: L type mounting bracket (Optional)



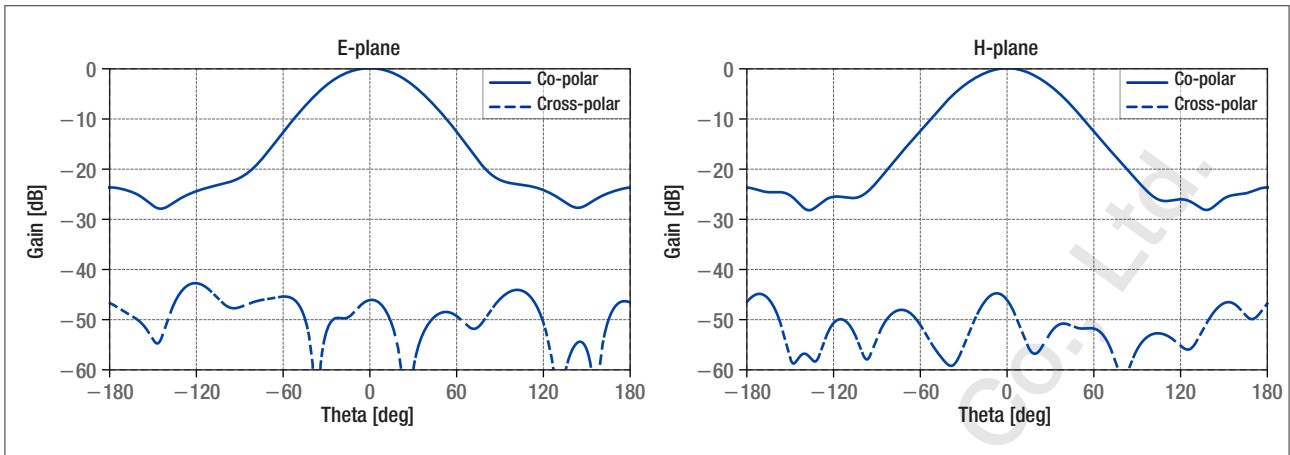
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

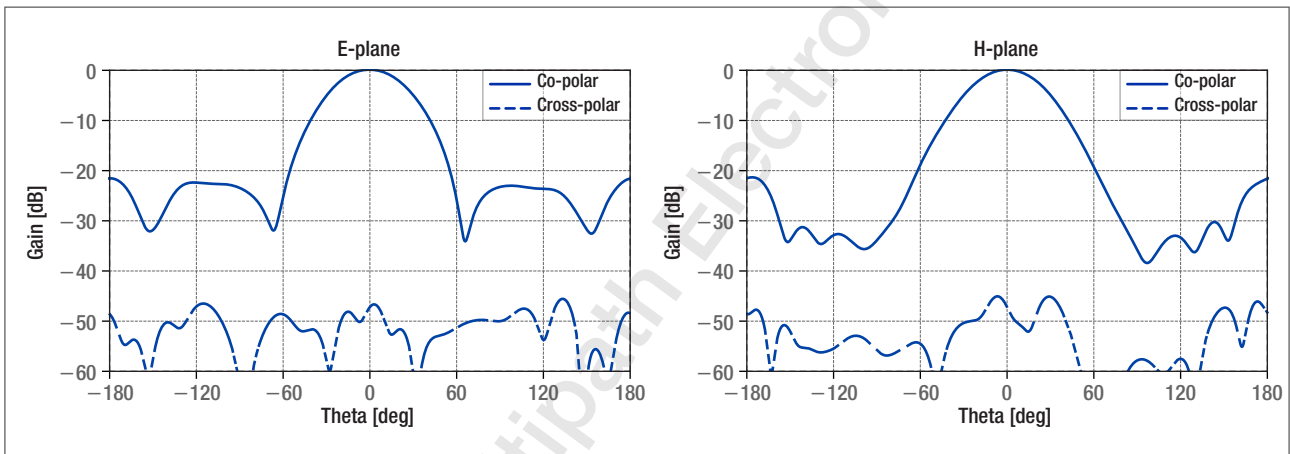


• Radiation patterns

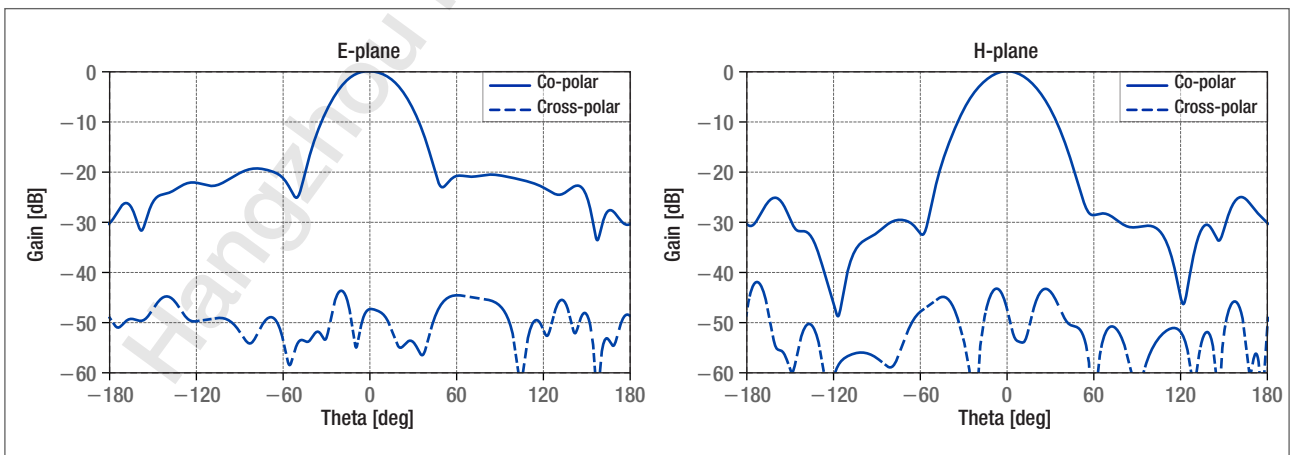
Patterns @ 60.0 GHz



Patterns @ 75.0 GHz



Patterns @ 90.0 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
61	10.35	55.55	-46.29	1.18
63	10.63	55.54	-46.16	1.07
65	10.84	55.61	-46.02	1.26
67	11.12	55.59	-46.32	1.16
69	11.38	55.58	-46.53	1.09
71	11.62	55.60	-46.37	1.16
73	11.89	55.57	-46.69	1.10
75	12.15	55.54	-47.03	1.13
77	12.41	55.51	-47.26	1.24
79	12.71	55.43	-49.23	1.16
81	12.94	55.42	-52.45	1.27
83	13.20	55.37	-49.01	1.09
85	13.23	55.55	-44.70	1.25
87	13.47	55.51	-43.87	1.15
89	13.70	55.48	-45.47	1.16
91	13.90	55.47	-48.74	1.20

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
60	56.23°	55.11°
75	46.49°	46.27°
90	39.51°	38.31°



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