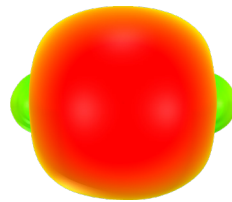


Standard Gain Horn Antennas

49.8 - 75.8 GHz, 10 dBi

Radiation pattern



QR code



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

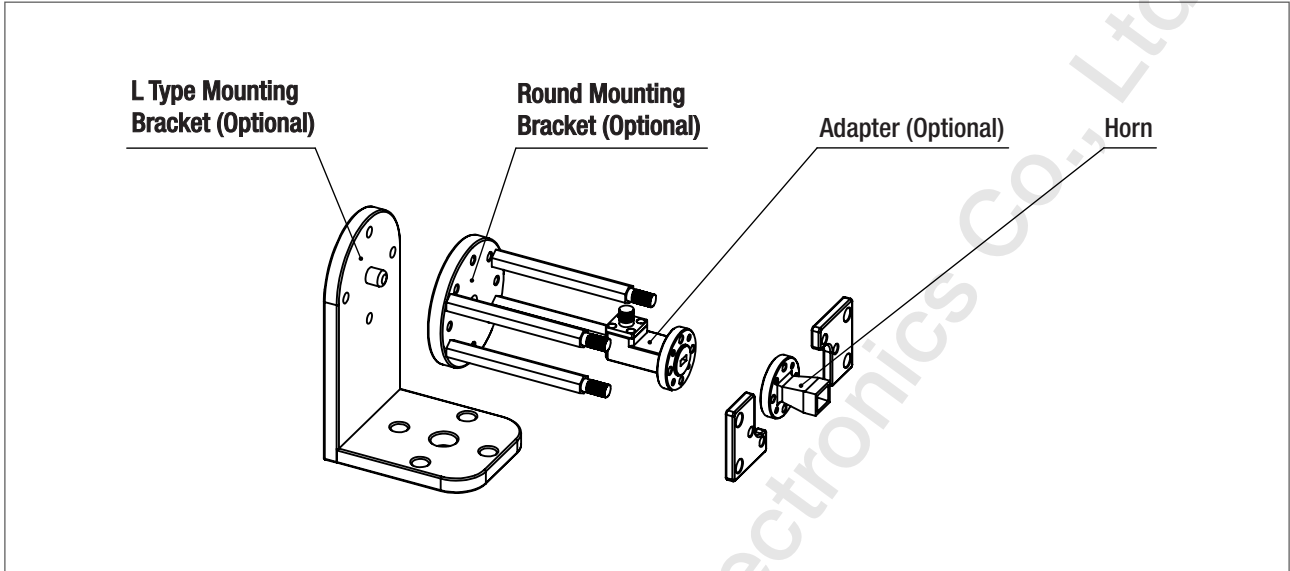
⚙️ Product specifications

Part number	HA-WR15-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	49.8 – 75.8	3dB beamwidth [deg]	E-plane: 45 Typ. H-plane: 45 Typ.
Waveguide band	WR15	Cross-polarization isolation [dB]	40 Typ.
Dimensions (H x W x L) [mm; inch]	19.05 x 19.05 x 40.93; 0.75 x 0.75 x 1.61	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.04; 0.088	Impedance [Ohms]	50
Material	Cu (Gold plated)	RF connector	1.0-Female

Outline dimensions

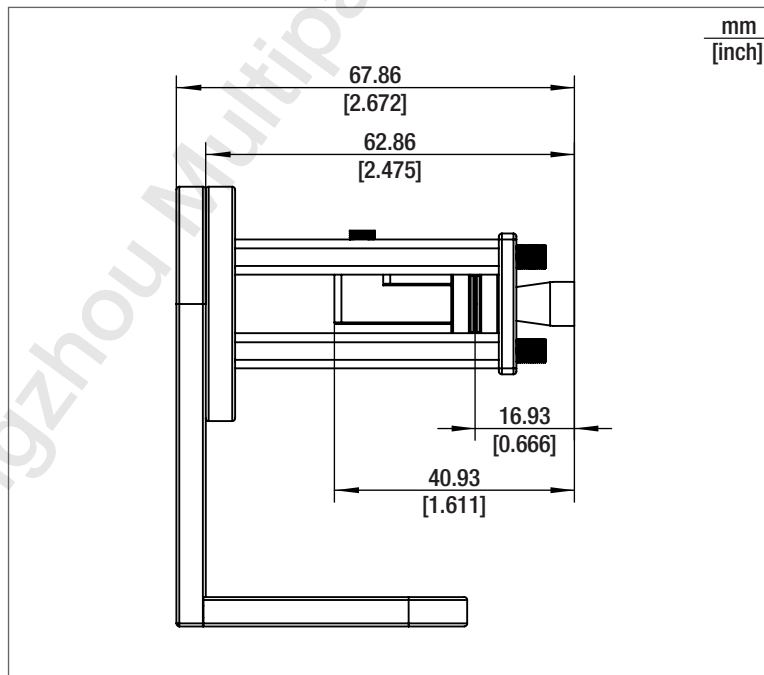
• Assembly dimensional drawing

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.

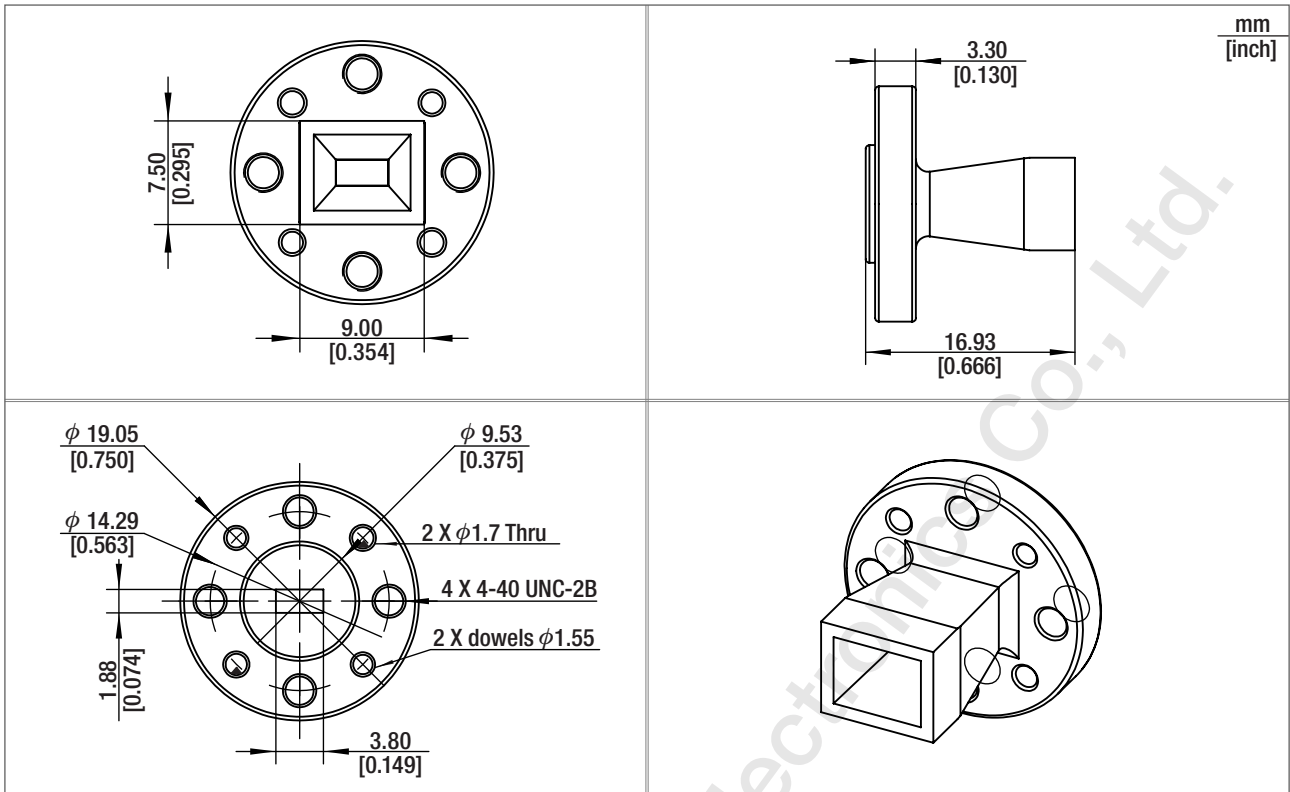


Side view of the mounting system.

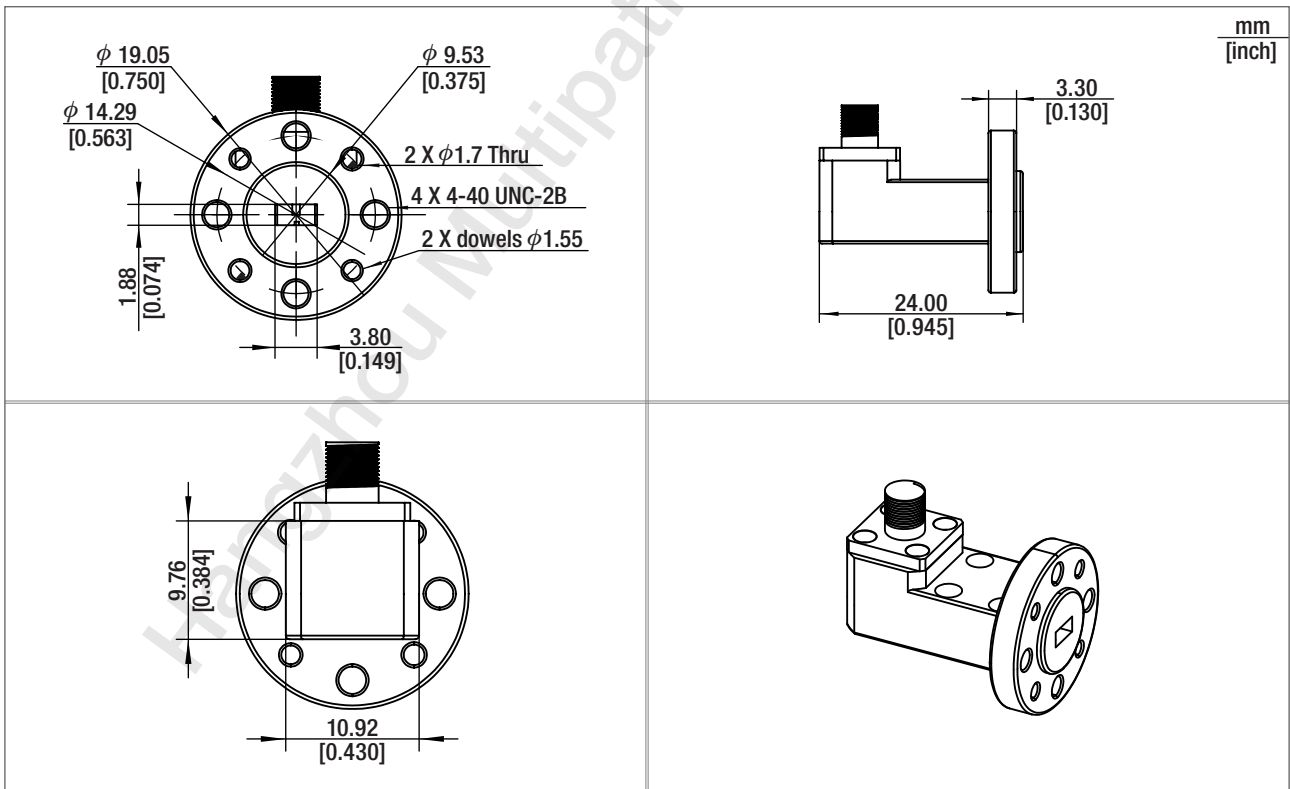
Detailed dimensions of the components will be given in subsequent diagrams.



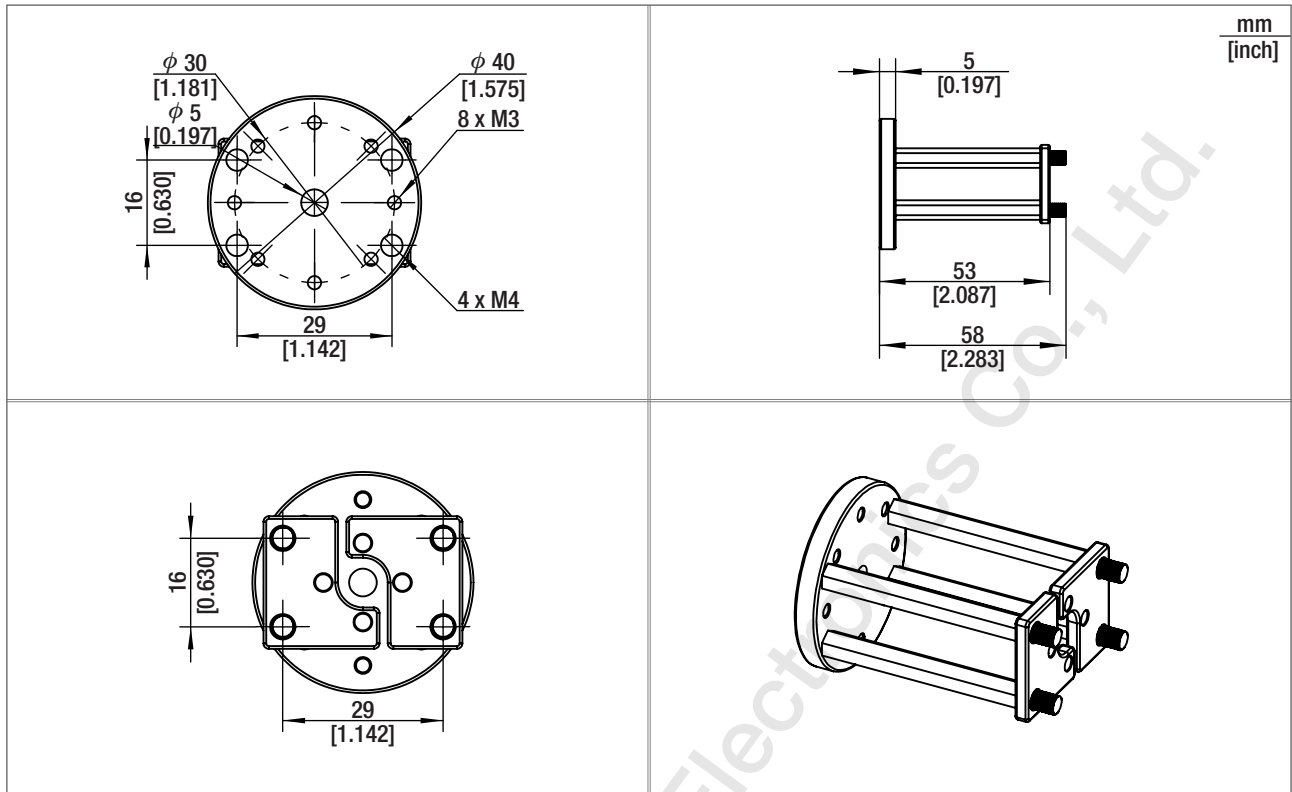
• Dimensional drawing: horn, HA-WR15-10



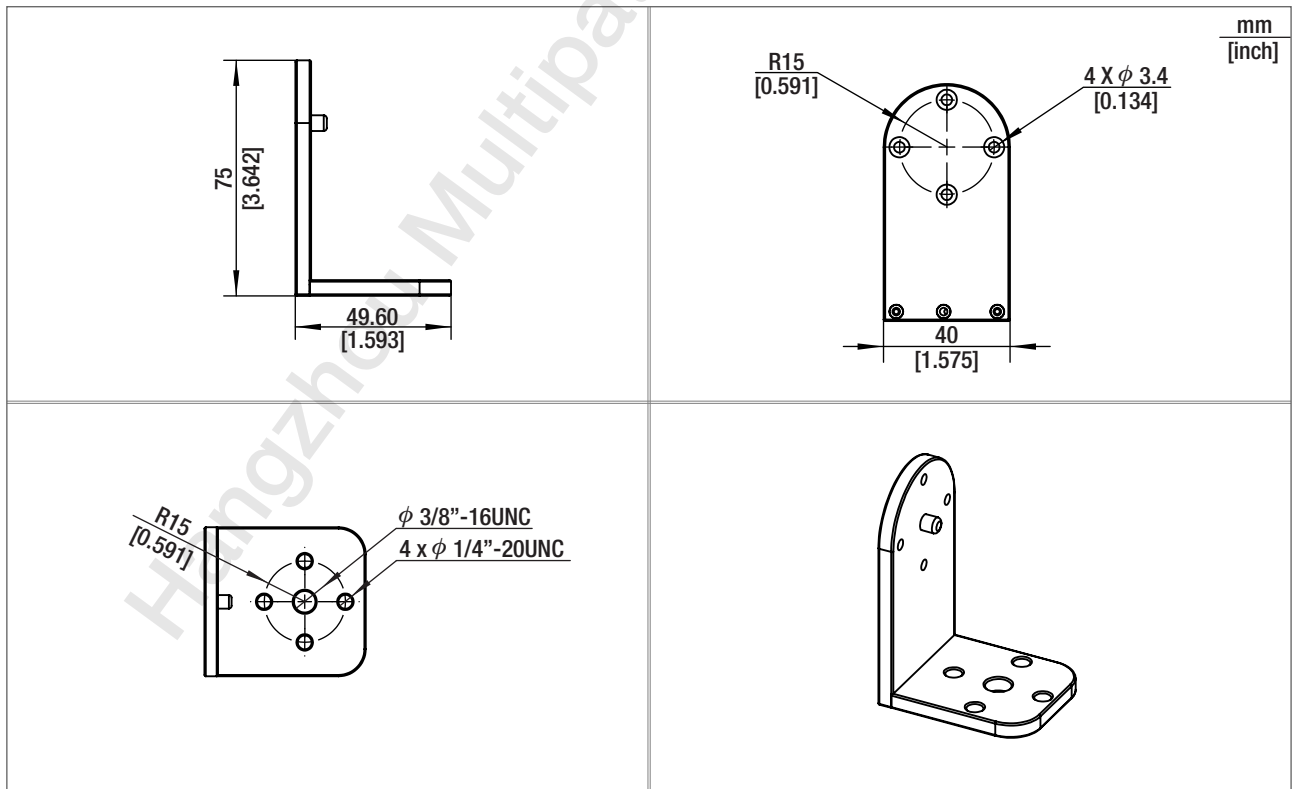
• Dimensional drawing: adapter, WR15-1.0-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

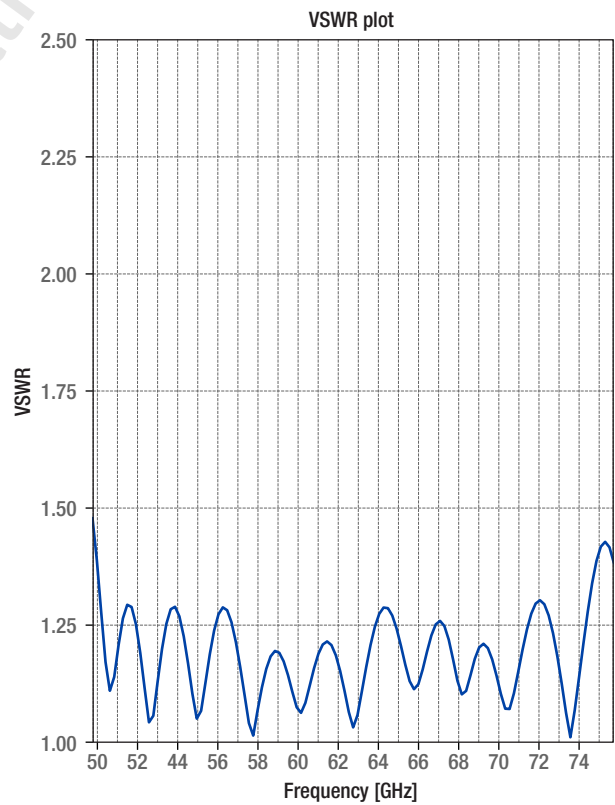
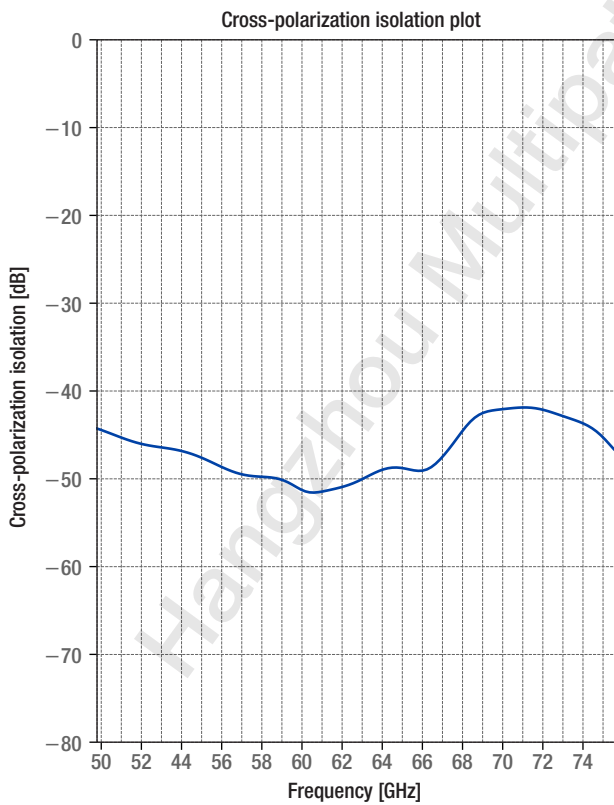
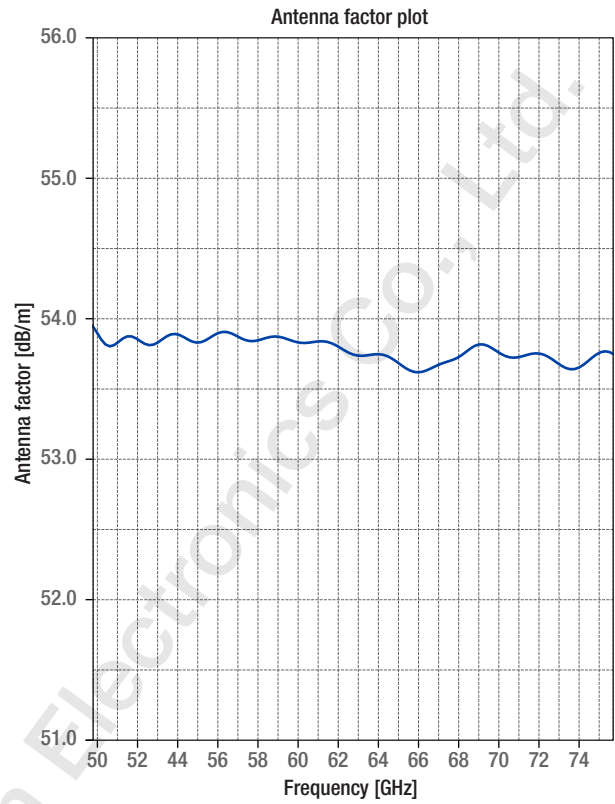
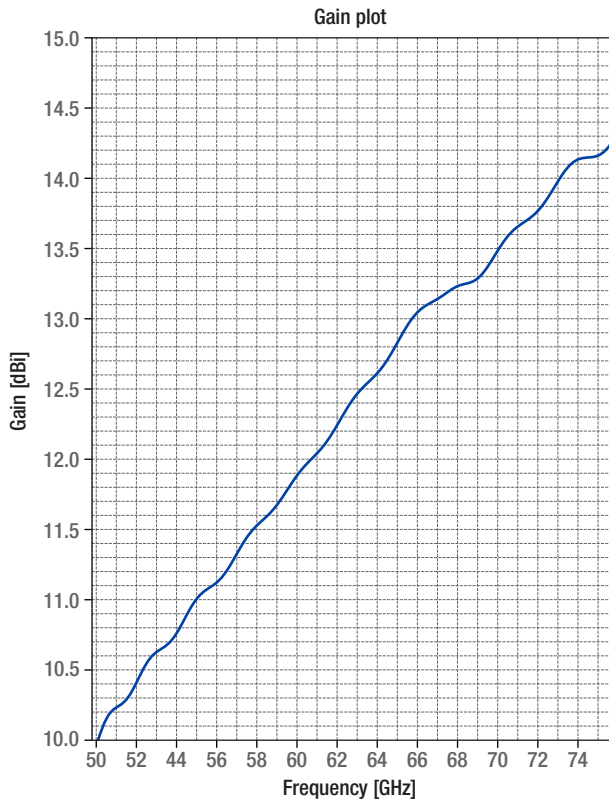


• Dimensional drawing: L type mounting bracket (Optional)



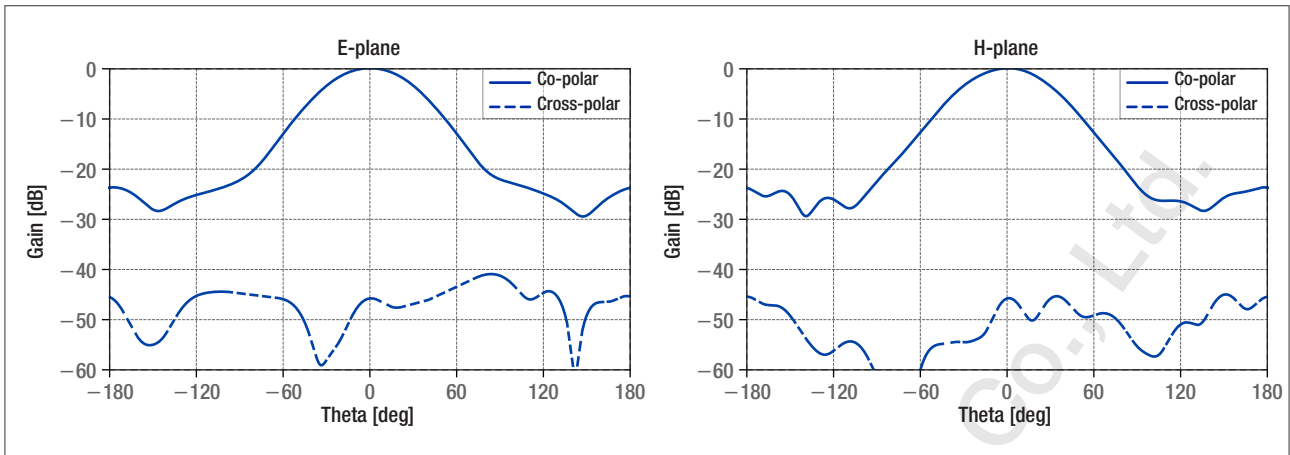
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

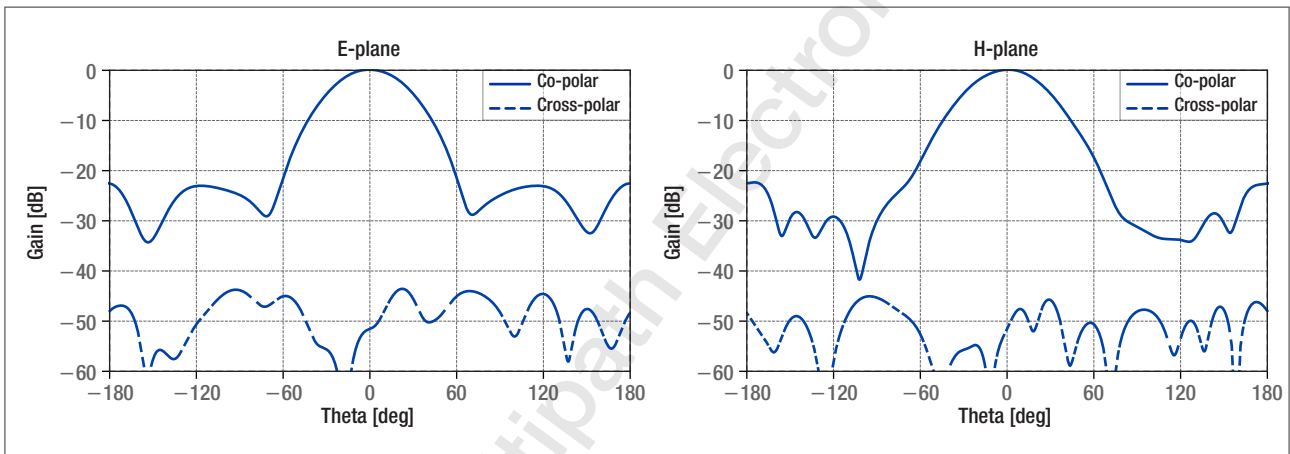


• Radiation patterns

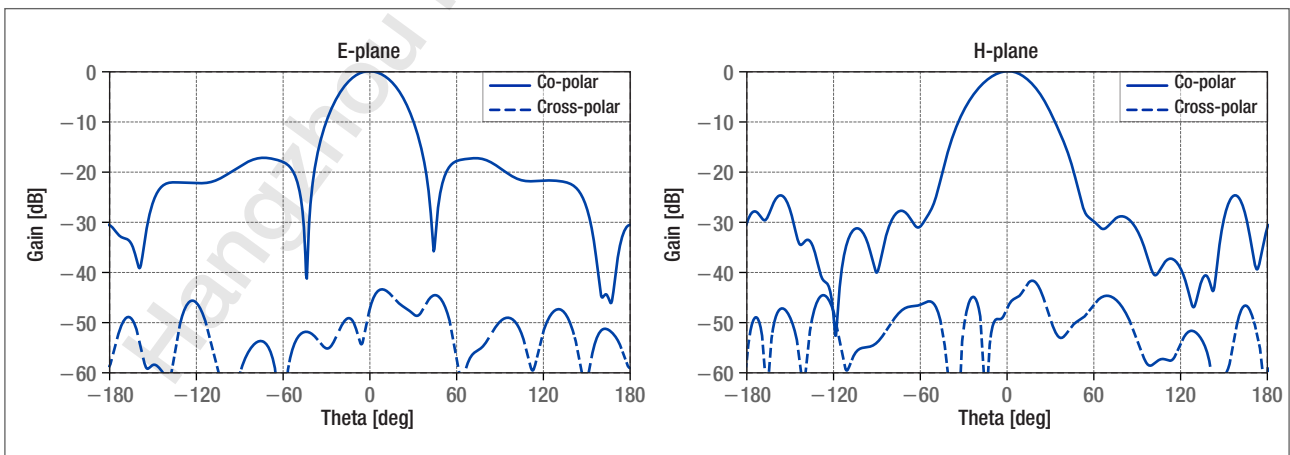
Patterns @ 50.0 GHz



Patterns @ 60.0 GHz



Patterns @ 78.0 GHz



• Data table


Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
50	10.29	53.88	-45.63	1.29
51	10.51	53.83	-46.13	1.11
52	10.65	53.86	-46.43	1.20
53	10.78	53.89	-46.82	1.27
54	11.00	53.84	-47.50	1.05
55	11.11	53.89	-48.41	1.24
56	11.25	53.90	-49.23	1.25
57	11.46	53.85	-49.63	1.04
58	11.59	53.87	-49.78	1.15
59	11.74	53.87	-50.34	1.17
60	11.92	53.84	-51.37	1.06
61	12.05	53.85	-51.38	1.19
62	12.22	53.82	-50.93	1.18
63	12.42	53.75	-50.23	1.03
64	12.56	53.75	-49.25	1.20
65	12.71	53.74	-48.66	1.28
66	12.92	53.66	-48.88	1.16
67	13.08	53.63	-48.86	1.15
68	13.16	53.68	-47.18	1.26
69	13.24	53.73	-44.58	1.13
70	13.28	53.81	-42.62	1.18
71	13.42	53.80	-42.06	1.17
72	13.60	53.73	-41.85	1.07
73	13.71	53.75	-41.82	1.24
74	13.82	53.75	-42.23	1.29
75	14.02	53.67	-42.89	1.12

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
50	55.73°	55.04°
60	47.55°	47.74°
78	35.26°	37.27°



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