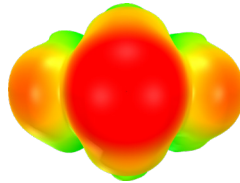
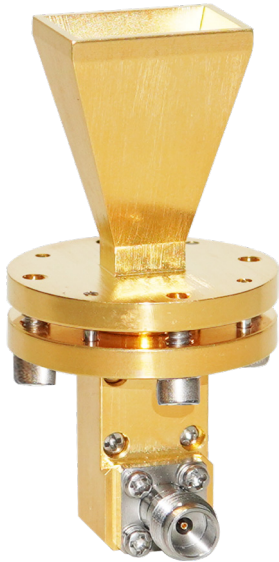


Standard Gain Horn Antennas

39.2 - 59.6 GHz, 15 dBi

Radiation pattern



QR code



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

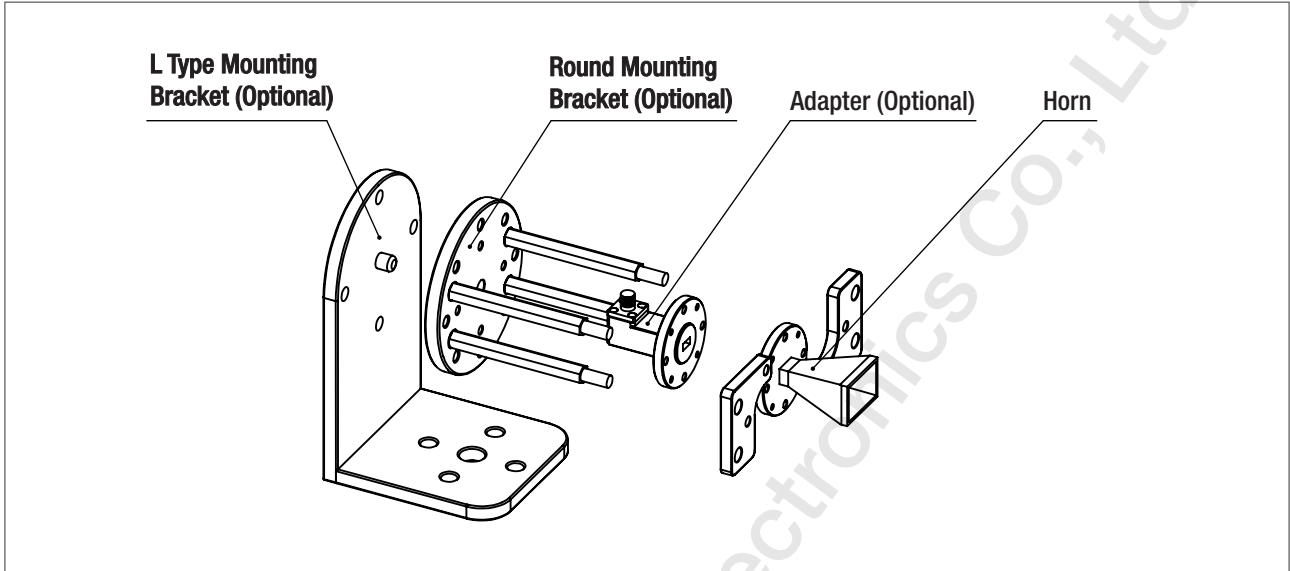
⚙️ Product specifications

Part number	HA-WR19-15	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	15 Typ.
Frequency range [GHz]	39.2 – 59.6	3dB beamwidth [deg]	E-plane: 25 Typ. H-plane: 25 Typ.
Waveguide band	WR19	Cross-polarization isolation [dB]	50 Typ.
Dimensions (H x W x L) [mm; inch]	28.6 x 28.6 x 55.65; 1.13 x 1.13 x 2.19	VSWR	1.25 Typ.
Weight (approx.) [kg; lb]	0.07; 0.154	Impedance [Ohms]	50
Material	Cu (Gold plated)	RF connector	1.85-Female

Outline dimensions

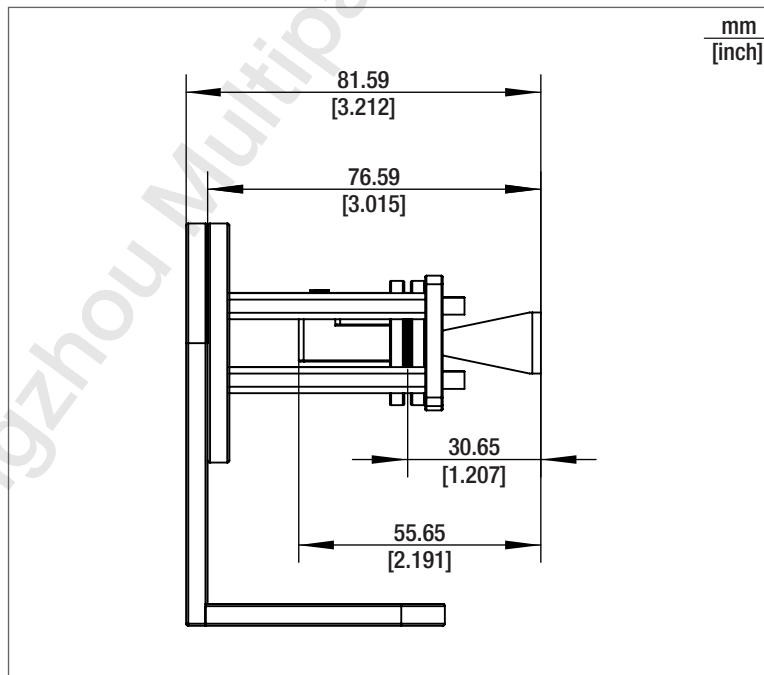
• Assembly dimensional drawing

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.

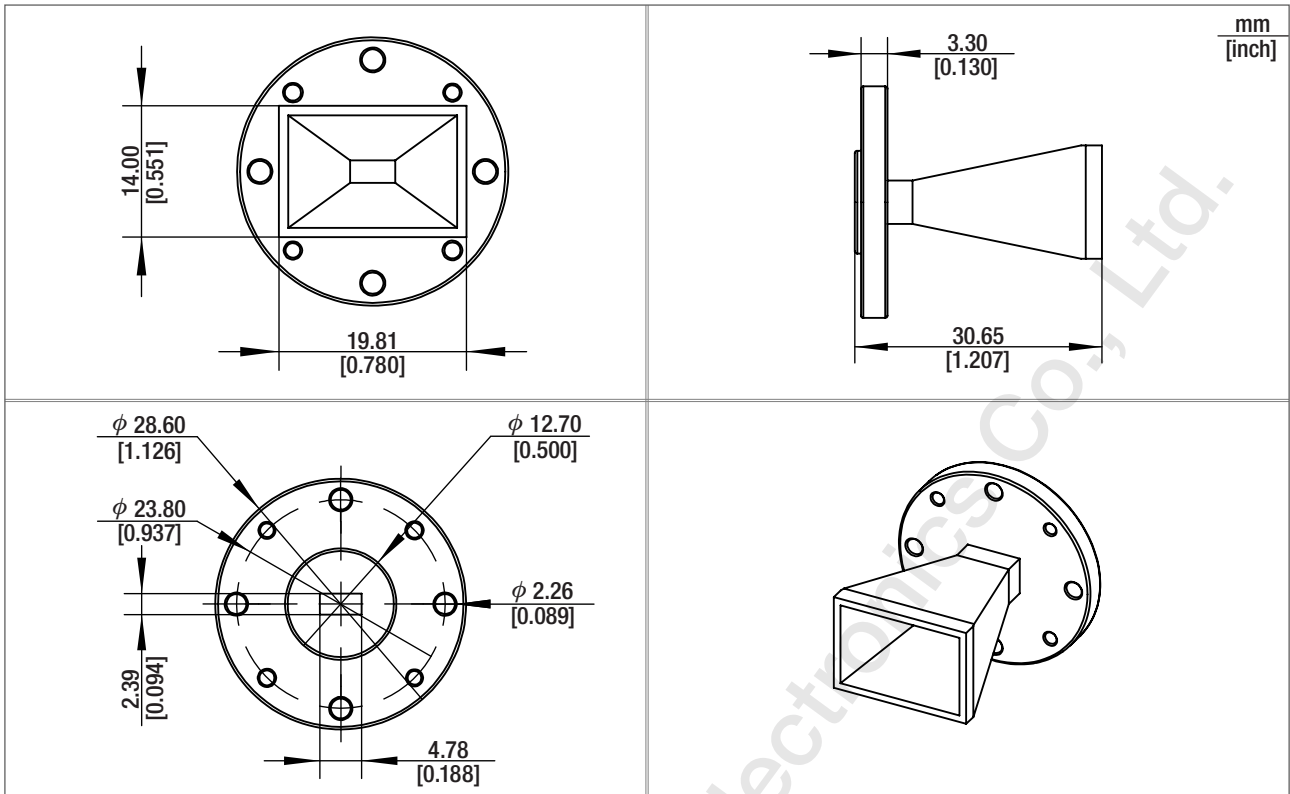


Side view of the mounting system.

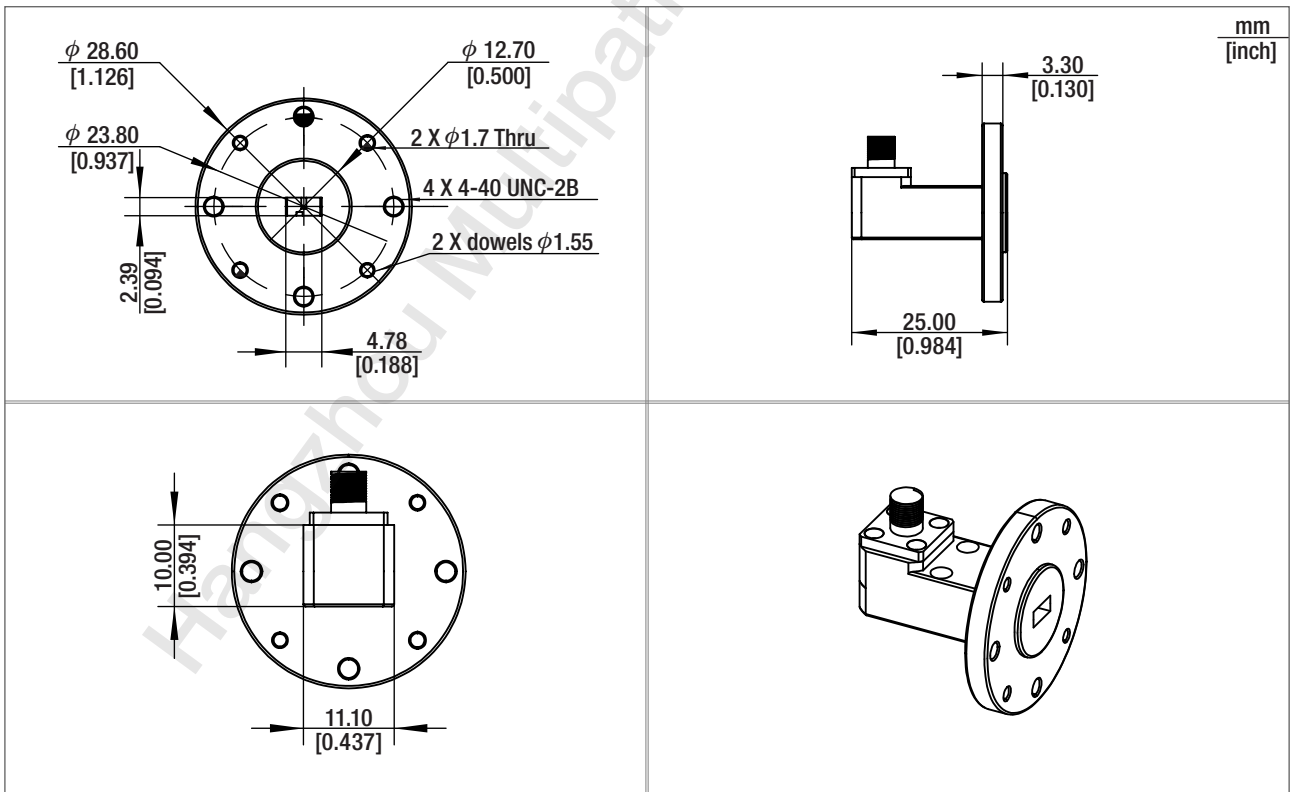
Detailed dimensions of the components will be given in subsequent diagrams.



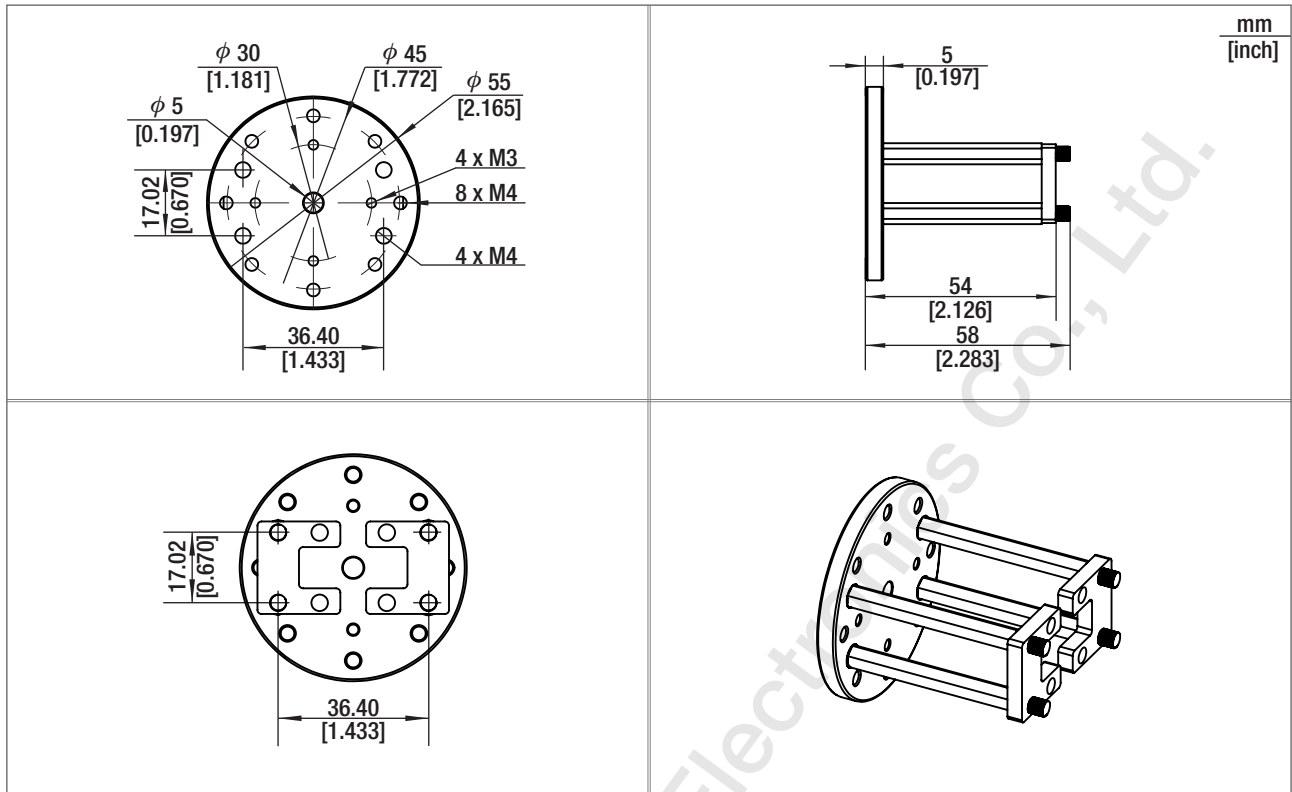
• Dimensional drawing: horn, HA-WR19-15



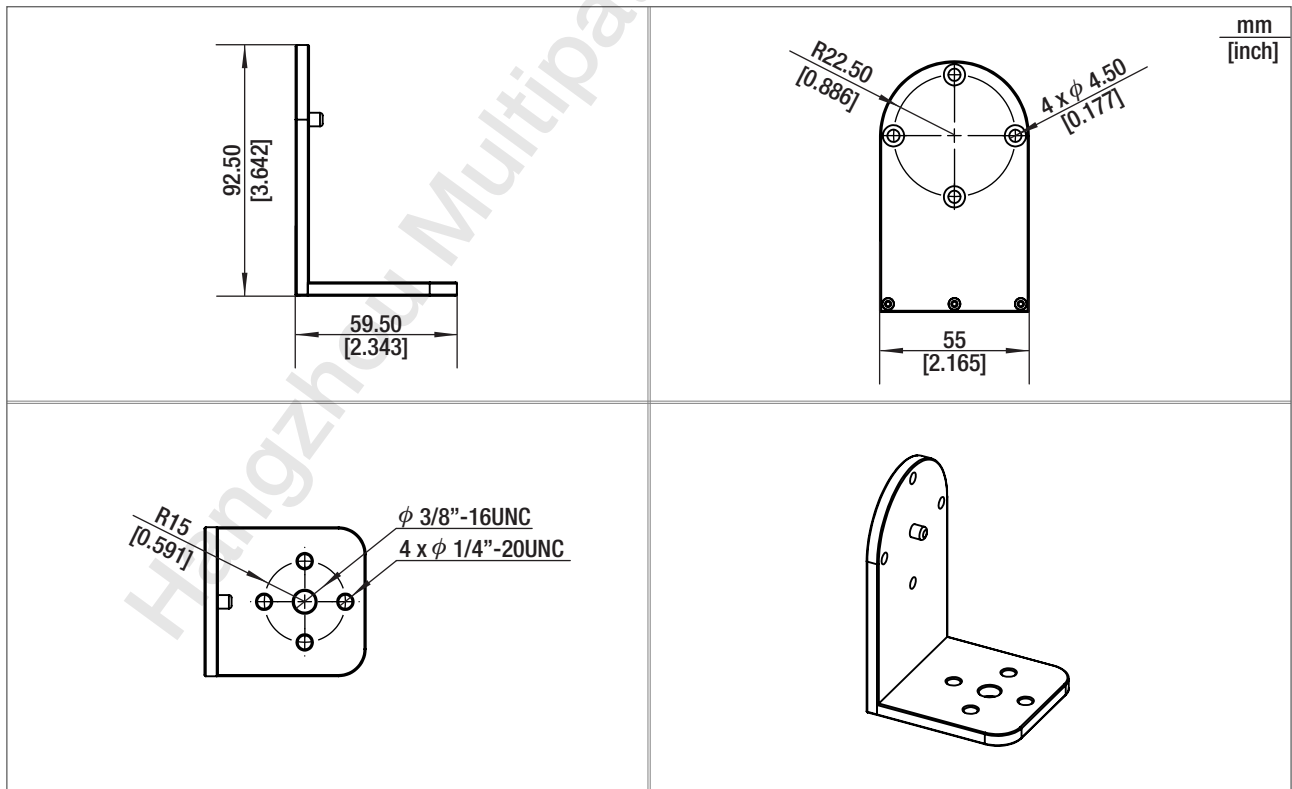
• Dimensional drawing: adapter, WR19-1.85-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

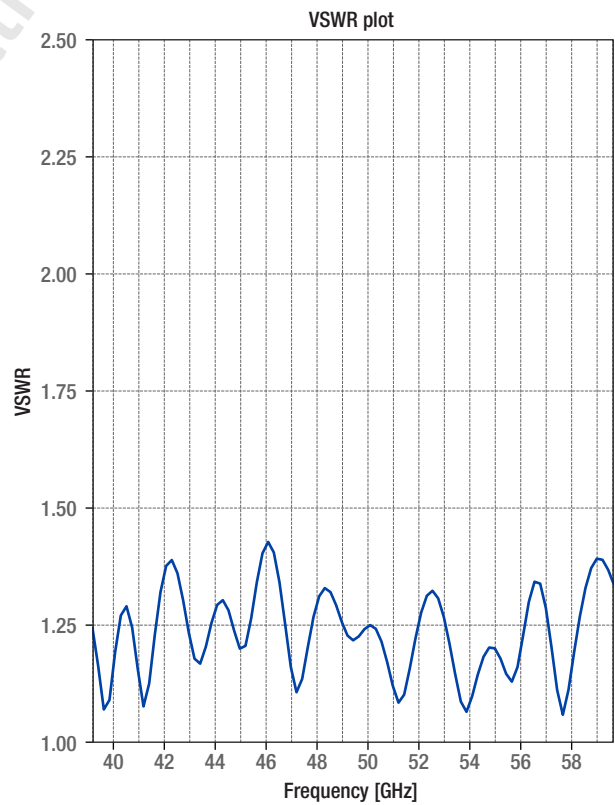
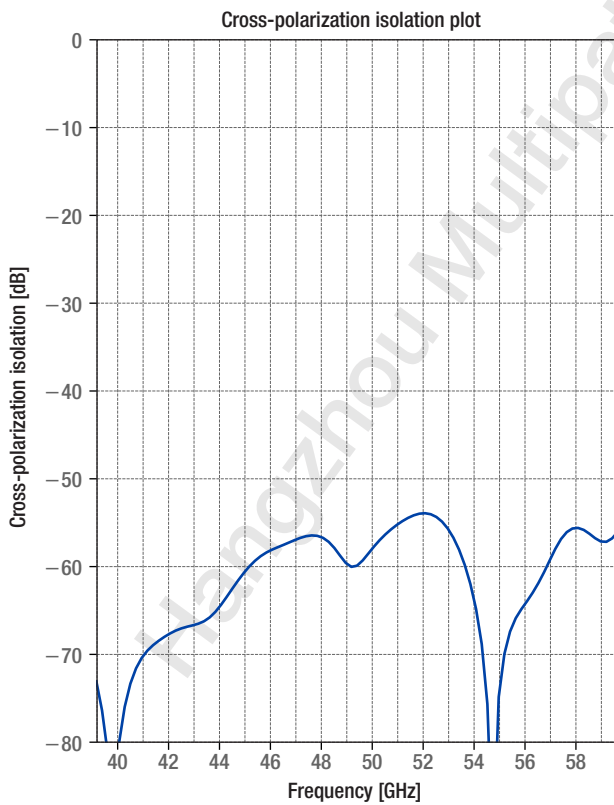
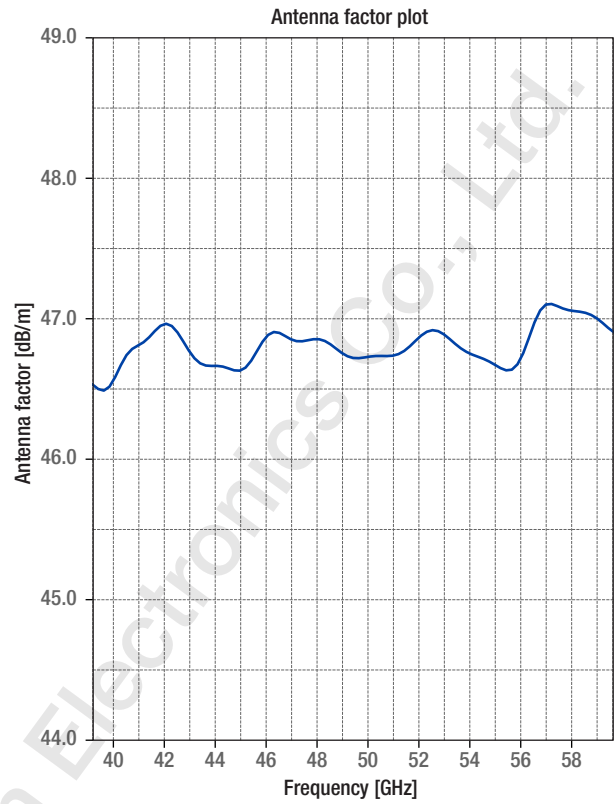
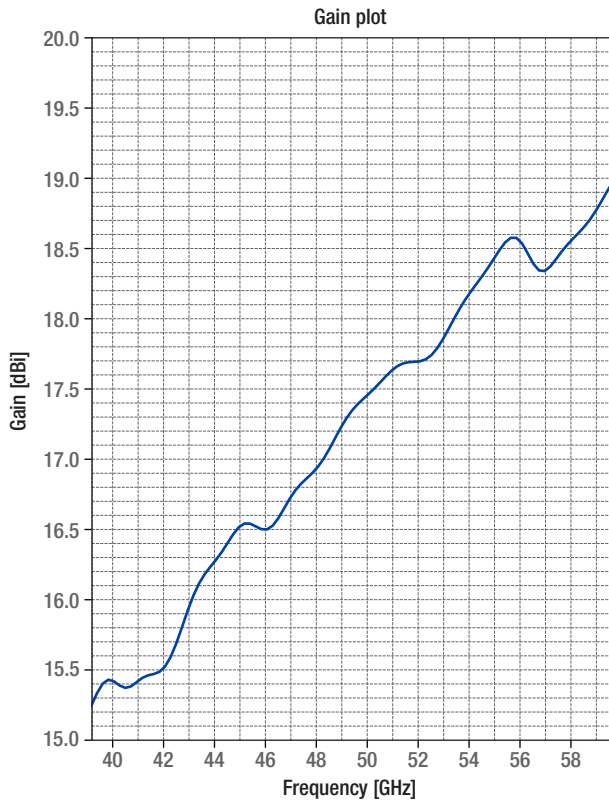


• Dimensional drawing: L type mounting bracket (Optional)



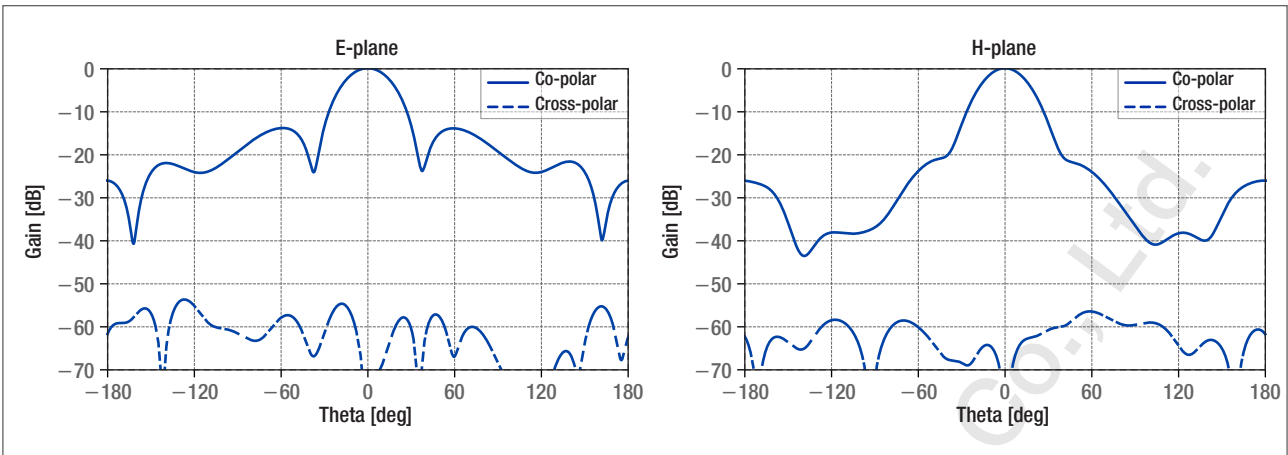
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

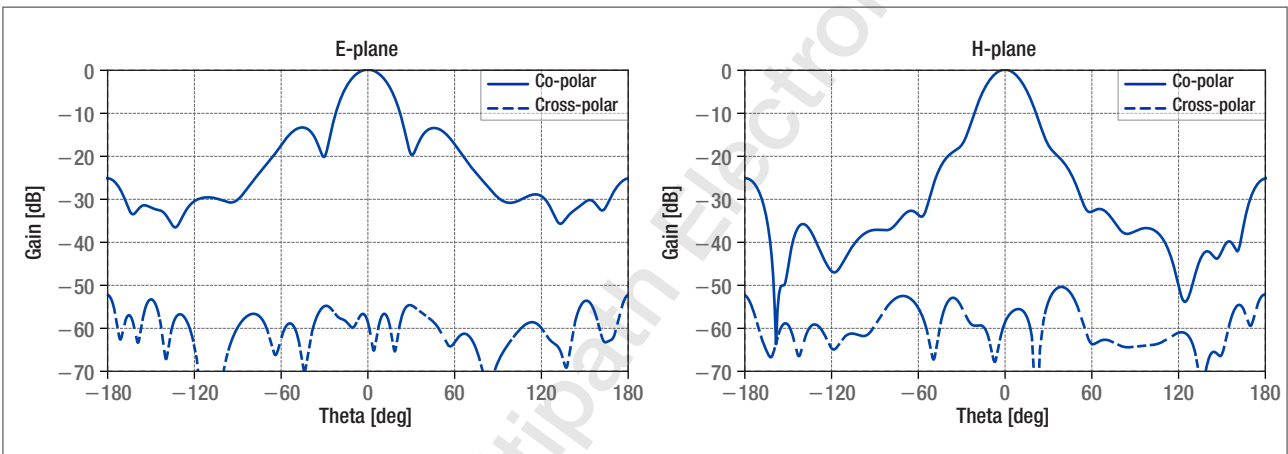


• Radiation patterns

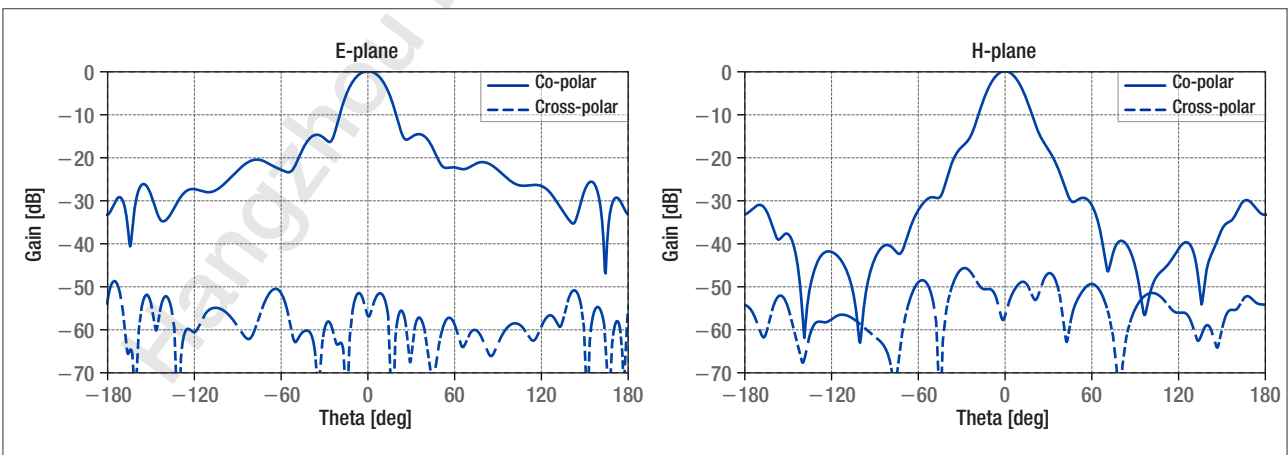
Patterns @ 39.0 GHz



Patterns @ 50.0 GHz



Patterns @ 60.0 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
40	15.41	46.82	-70.30	1.15
41	15.49	46.96	-67.89	1.32
42	15.81	46.85	-66.73	1.30
43	16.18	46.67	-65.67	1.20
44	16.41	46.65	-62.37	1.28
45	16.55	46.71	-59.20	1.26
46	16.53	46.91	-57.65	1.40
47	16.78	46.85	-56.58	1.10
48	16.95	46.86	-56.58	1.31
49	17.23	46.76	-59.44	1.25
50	17.44	46.73	-58.37	1.24
51	17.60	46.74	-55.61	1.17
52	17.70	46.81	-54.01	1.15
53	17.75	46.93	-54.19	1.32
54	18.01	46.83	-57.93	1.14
55	18.26	46.74	-68.70	1.14
56	18.50	46.66	-69.84	1.18
57	18.55	46.76	-63.81	1.23
58	18.35	47.11	-59.15	1.28
59	18.54	47.07	-55.51	1.11

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
39	31.53°	29.46°
50	26.29°	23.58°
60	23.03°	20.21°



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