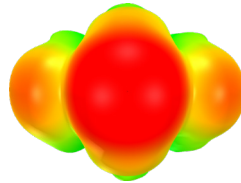


Standard Gain Horn Antennas

73.8 - 112.0 GHz, 15 dBi

Radiation pattern



QR code



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

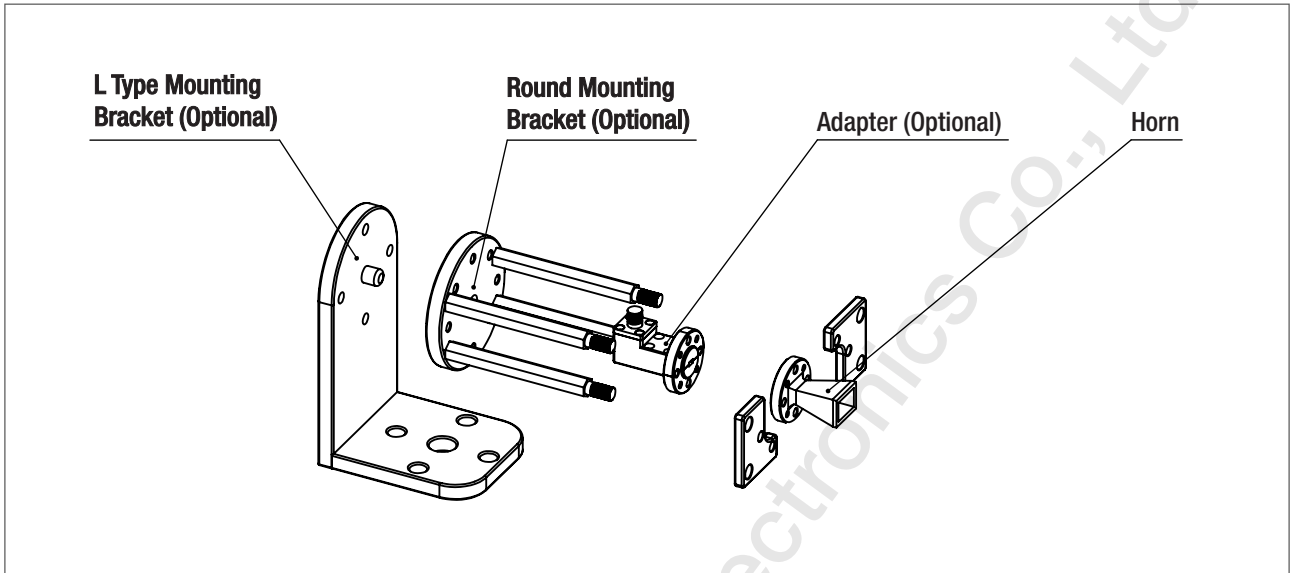
⚙️ Product specifications

Part number	HA-WR10-15	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	15 Typ.
Frequency range [GHz]	73.8 – 112.0	3dB beamwidth [deg]	E-plane: 25 Typ. H-plane: 25 Typ.
Waveguide band	WR10	Cross-polarization isolation [dB]	50 Typ.
Dimensions (H x W x L) [mm; inch]	19.05 x 19.05 x 20.53; 0.75 x 0.75 x 0.81	VSWR	1.4 Typ.
Weight (approx.) [kg; lb]	0.04; 0.088	Impedance [Ohms]	50
Material	Cu (Gold plated)	RF connector	1.0-Female

Outline dimensions

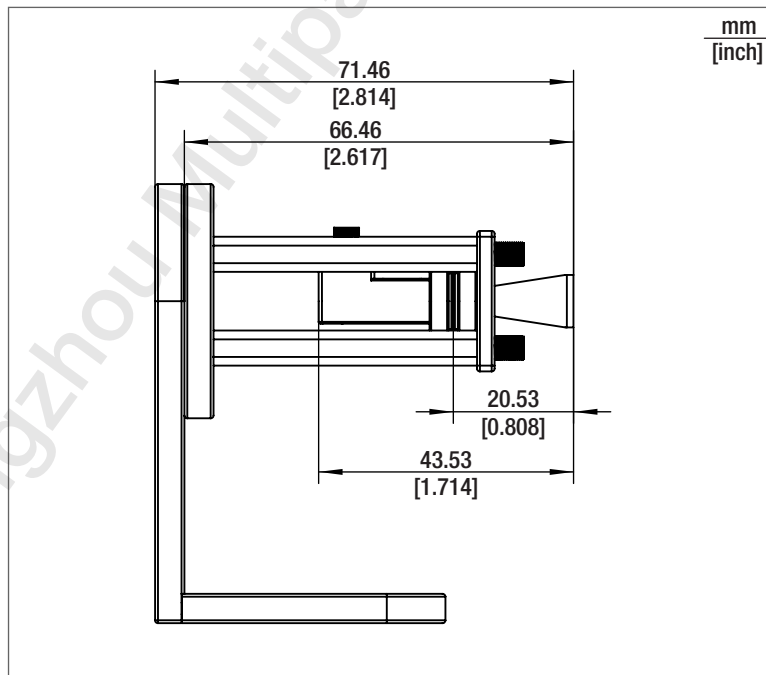
• Assembly dimensional drawing

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.

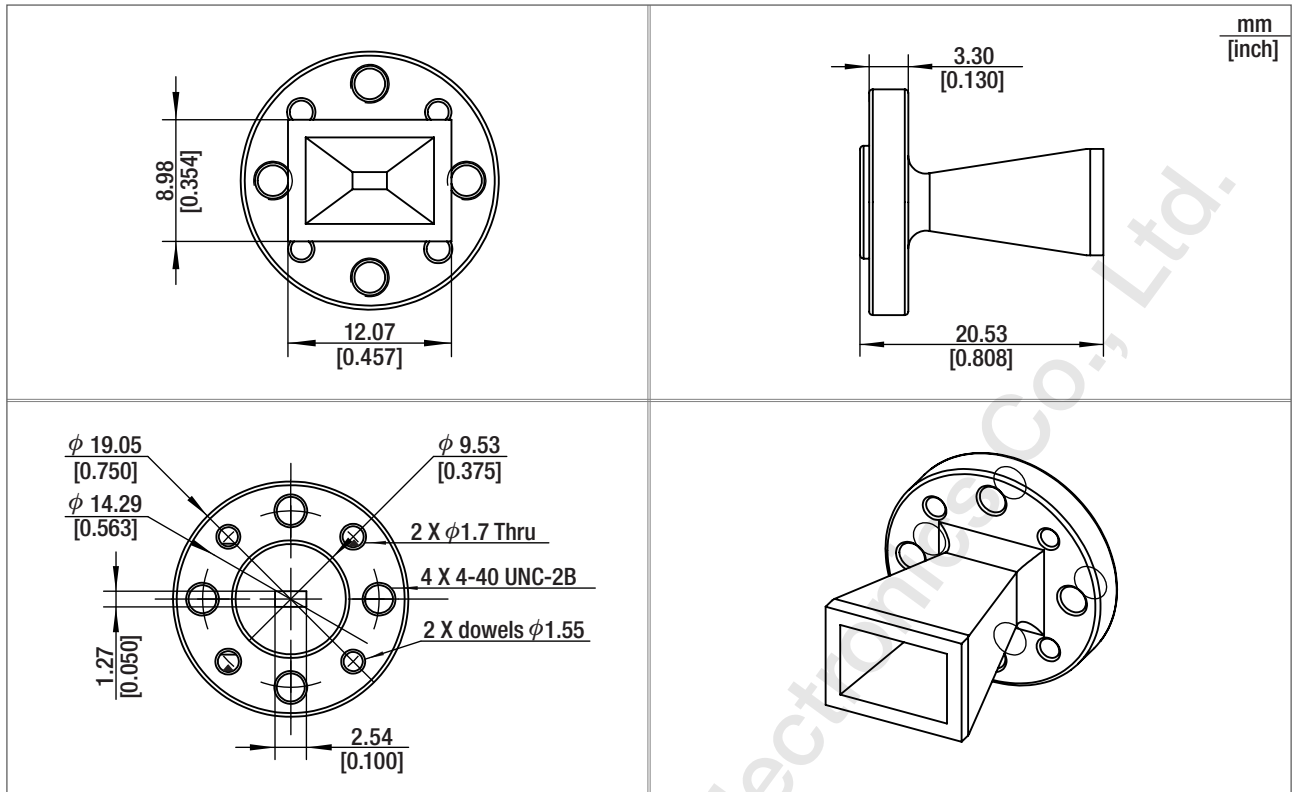


Side view of the mounting system.

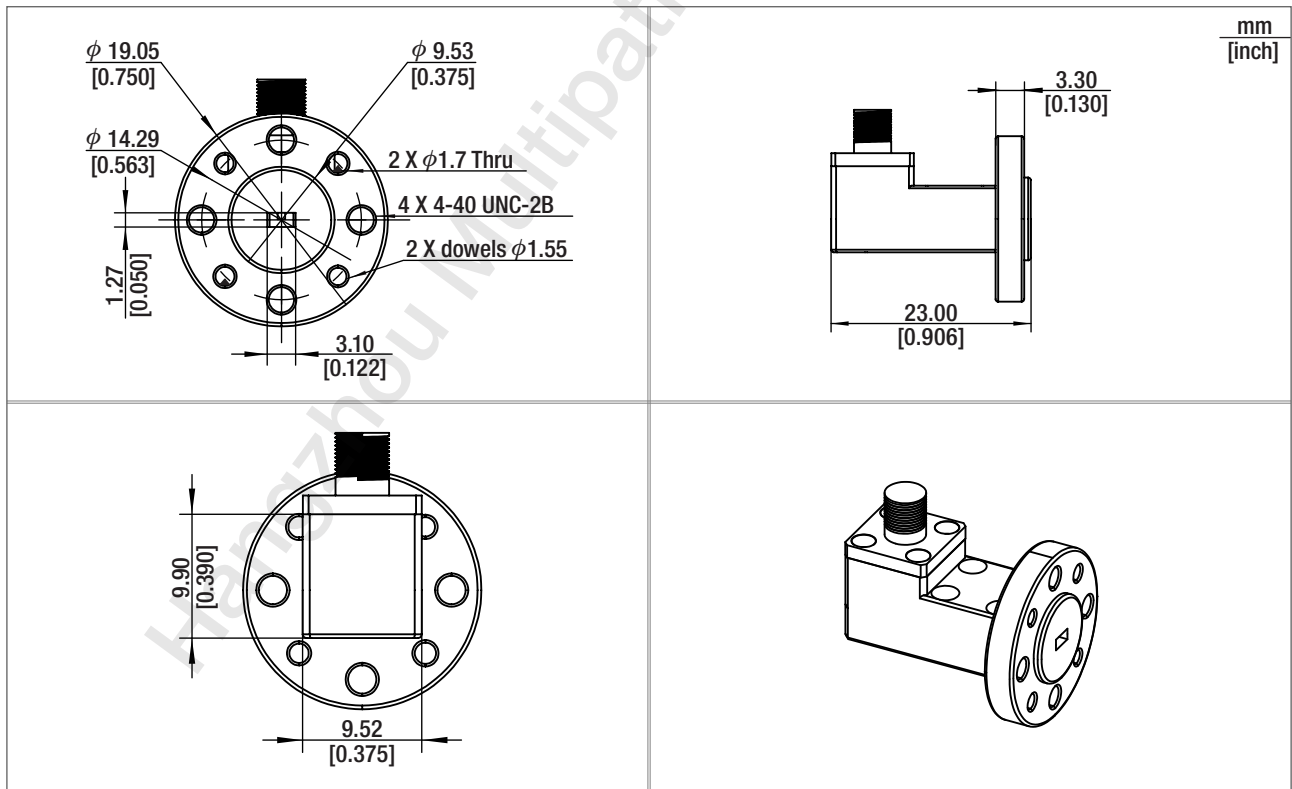
Detailed dimensions of the components will be given in subsequent diagrams.



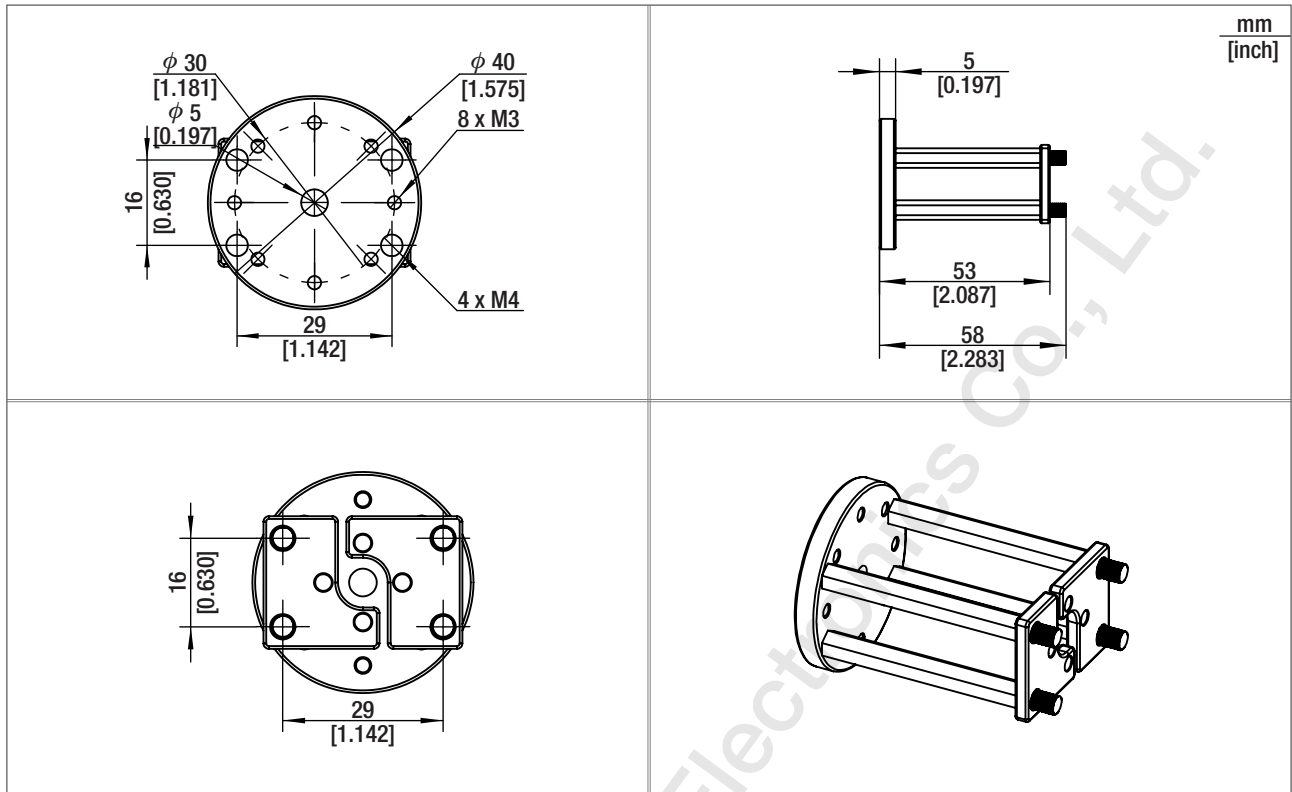
• Dimensional drawing: horn, HA-WR10-15



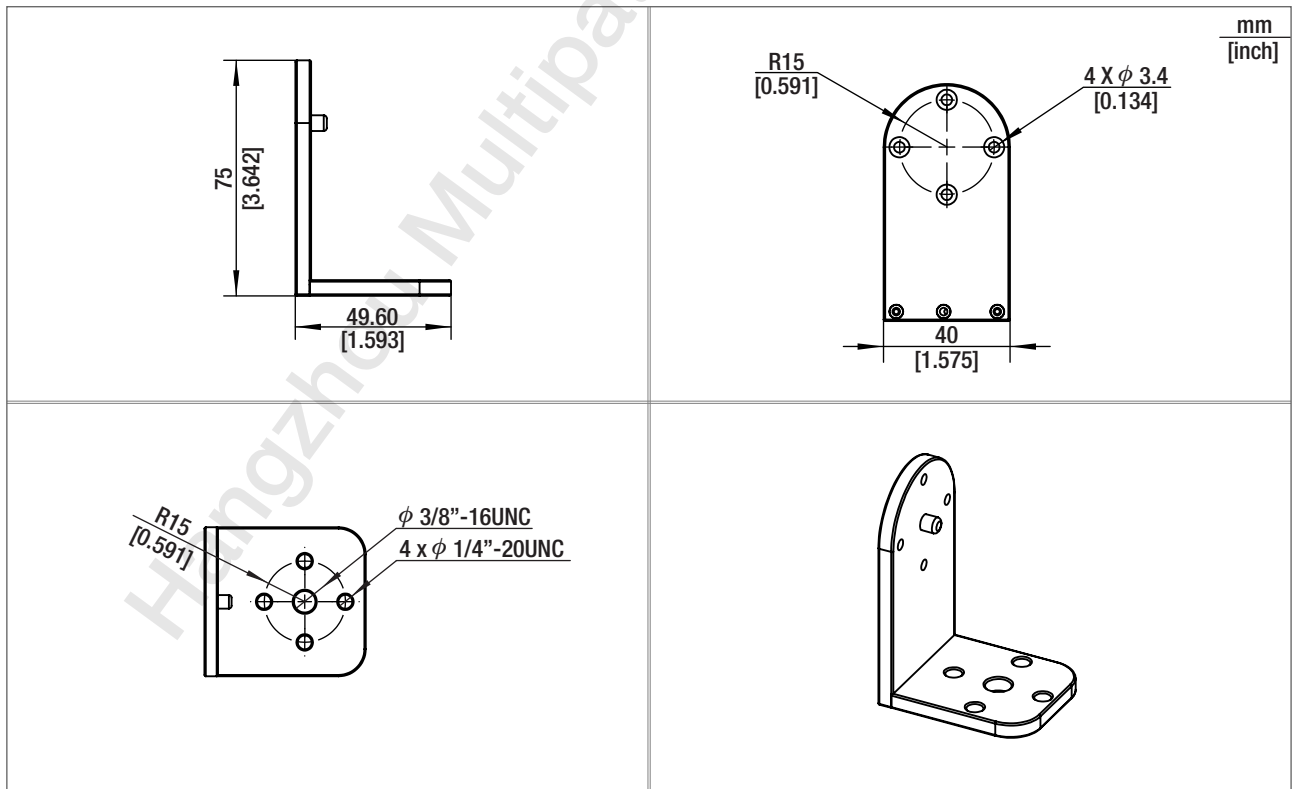
• Dimensional drawing: adapter, WR10-1.0-F (Optional)



• Dimensional drawing: round mounting bracket (Optional)

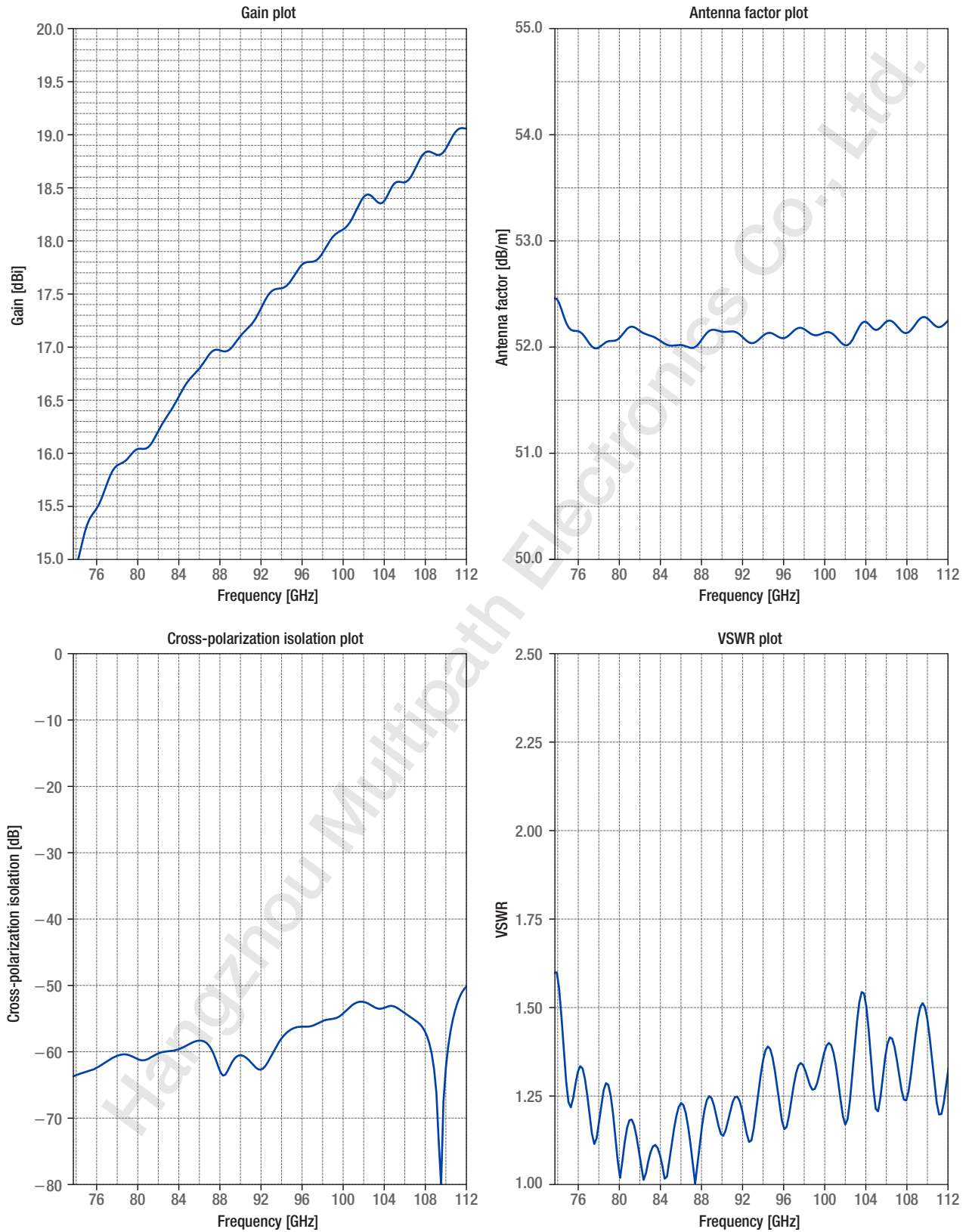


• Dimensional drawing: L type mounting bracket (Optional)



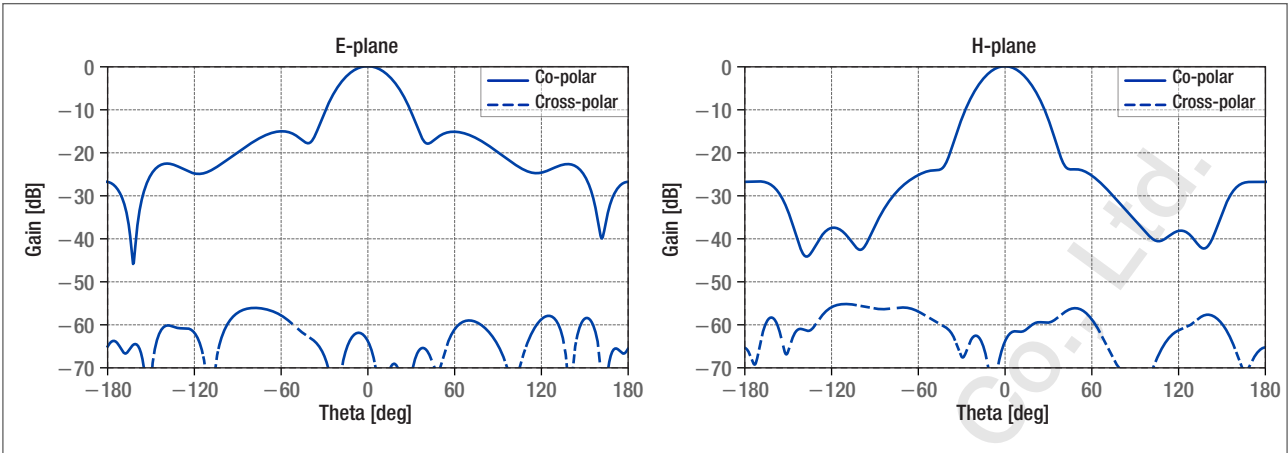
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

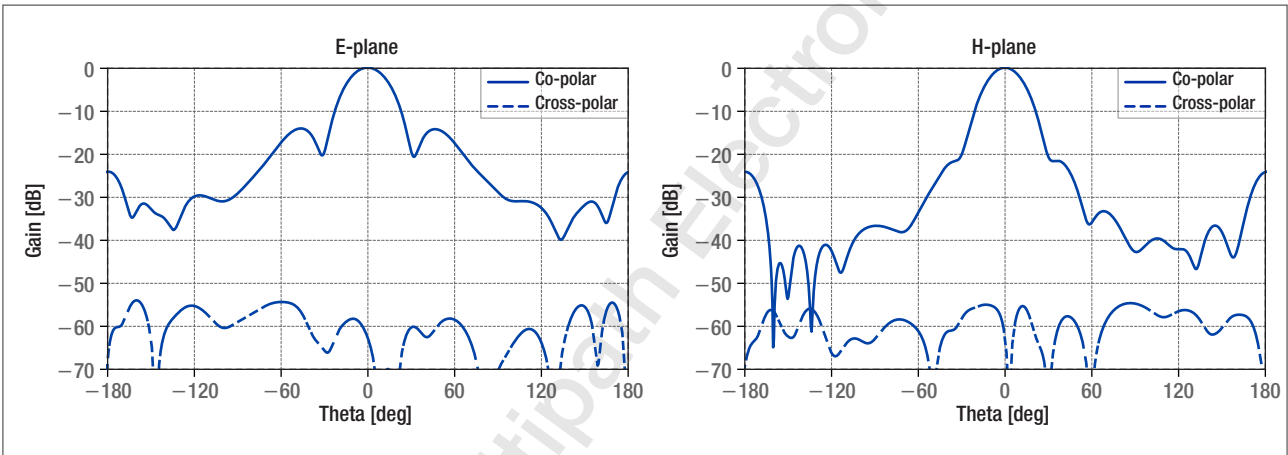


• Radiation patterns

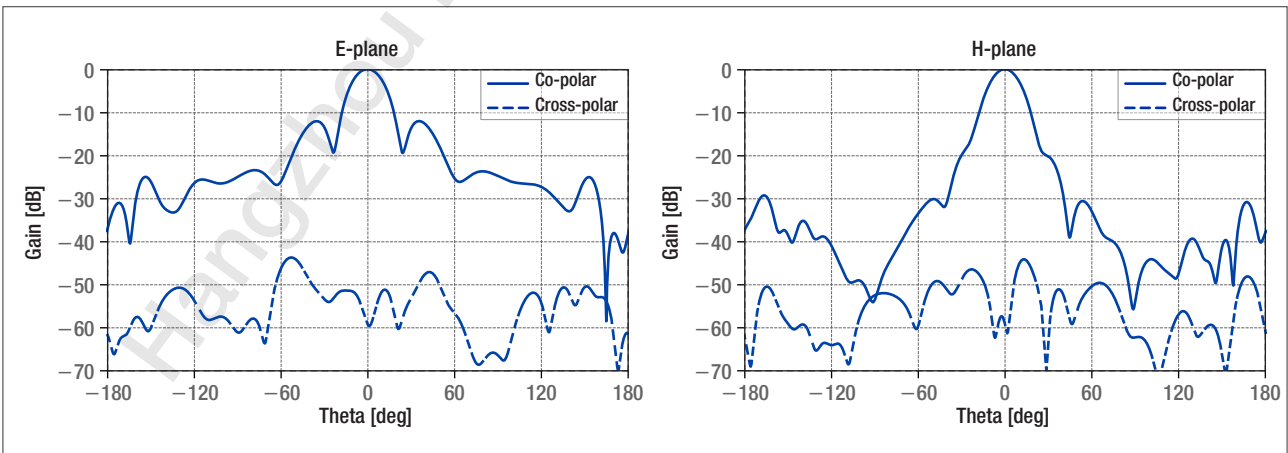
Patterns @ 72 GHz



Patterns @ 92 GHz



Patterns @ 112 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
74	15.41	52.16	-62.65	1.24
76	15.80	52.01	-60.96	1.14
78	15.97	52.06	-60.37	1.25
80	16.06	52.19	-60.96	1.18
82	16.35	52.12	-59.80	1.06
84	16.65	52.03	-59.00	1.02
86	16.87	52.01	-58.30	1.20
88	16.97	52.11	-63.46	1.21
90	17.13	52.15	-60.41	1.13
92	17.36	52.10	-62.56	1.21
94	17.56	52.09	-58.32	1.31
96	17.74	52.10	-56.11	1.22
98	17.83	52.19	-55.64	1.33
100	18.07	52.12	-54.79	1.28
102	18.26	52.10	-52.59	1.33
104	18.42	52.11	-53.01	1.38
106	18.52	52.18	-52.93	1.27
108	18.61	52.25	-54.62	1.41
110	18.85	52.17	-58.61	1.31
112	18.92	52.26	-59.14	1.41

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
72	33.22°	30.47°
92	26.66°	23.81°
112	10.52°	9.96°



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