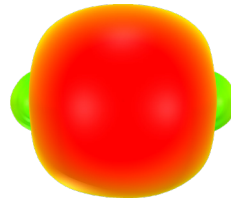


Standard Gain Horn Antennas

4.64 - 7.05 GHz, 10 dBi

Radiation pattern



QR code

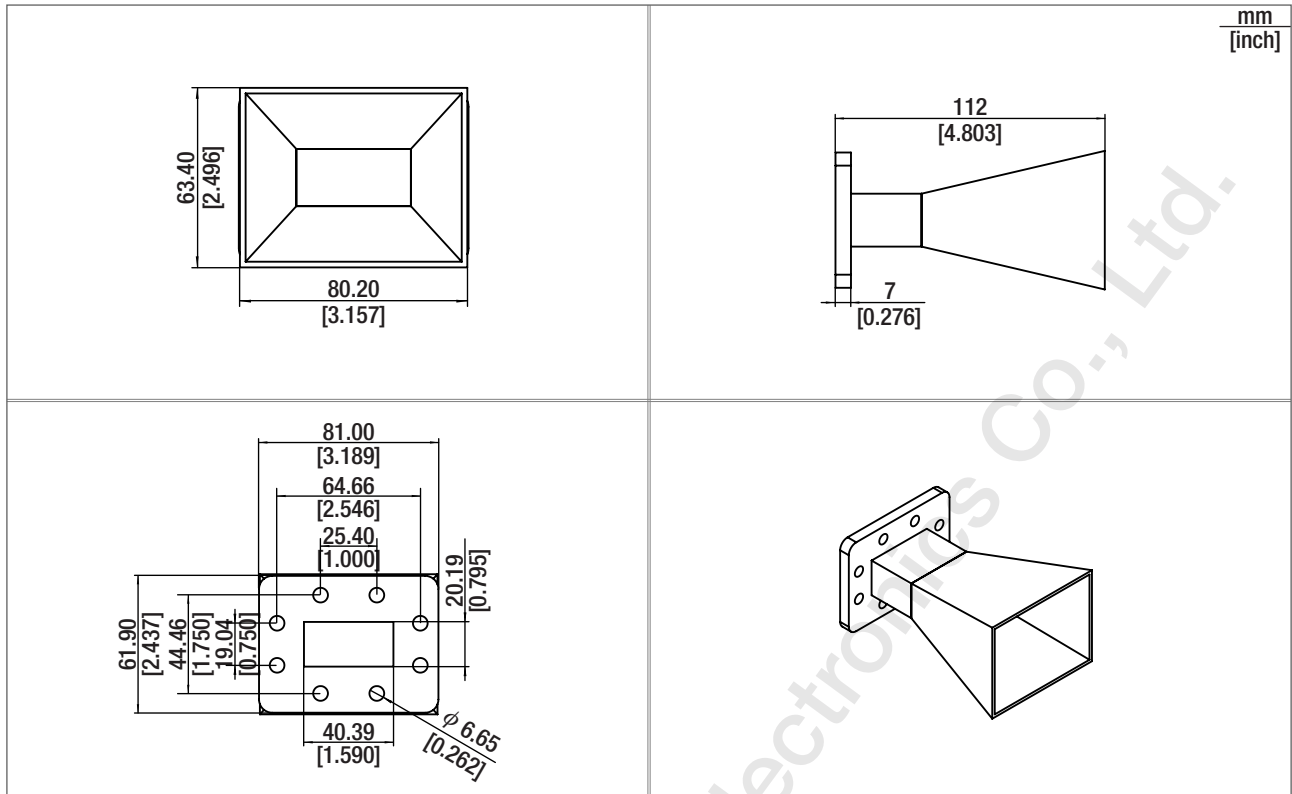


Hangzhou Multipath Electronics Co., Ltd., Zhejiang, China

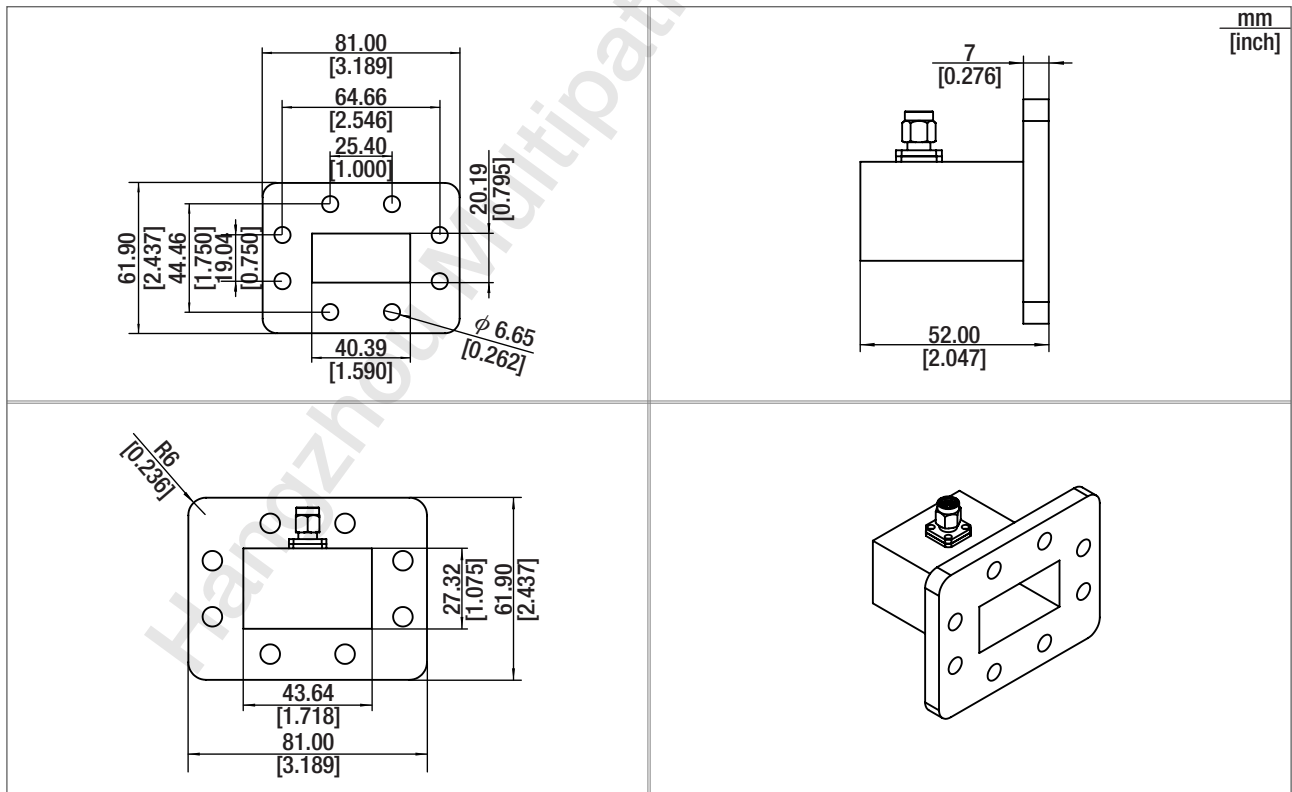
⚙️ Product specifications

Part number	HA-WR159-10	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	10 Typ.
Frequency range [GHz]	4.64 – 7.05	3dB beamwidth [deg]	E-plane: 45 Typ. H-plane: 45 Typ.
Waveguide band	WR159	Cross-polarization isolation [dB]	65 Typ.
Dimensions (H x W x L) [mm; inch]	81.0 x 63.4 x 174.0; 3.19 x 2.50 x 6.85	VSWR	1.40 Typ.
Weight (approx.) [kg; lb]	0.34; 0.750	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

• Dimensional drawing: horn, HA-WR159-10

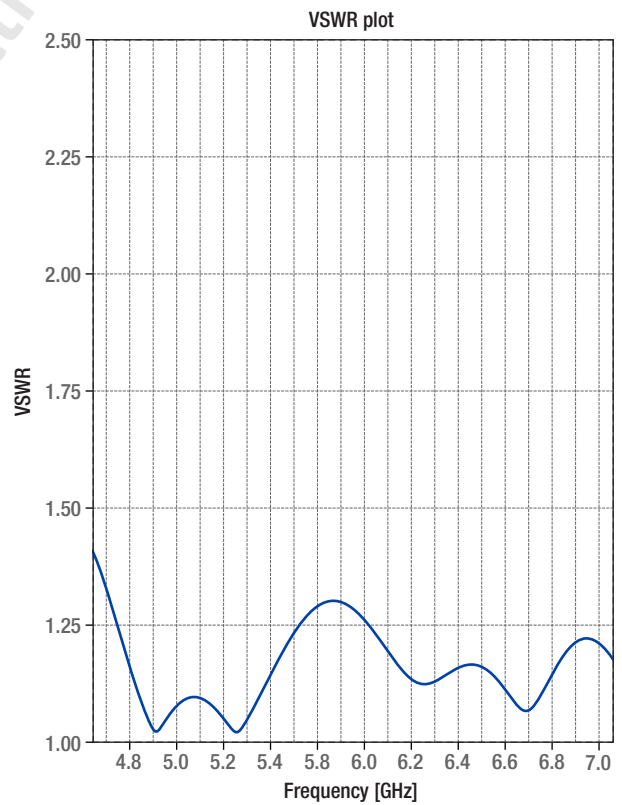
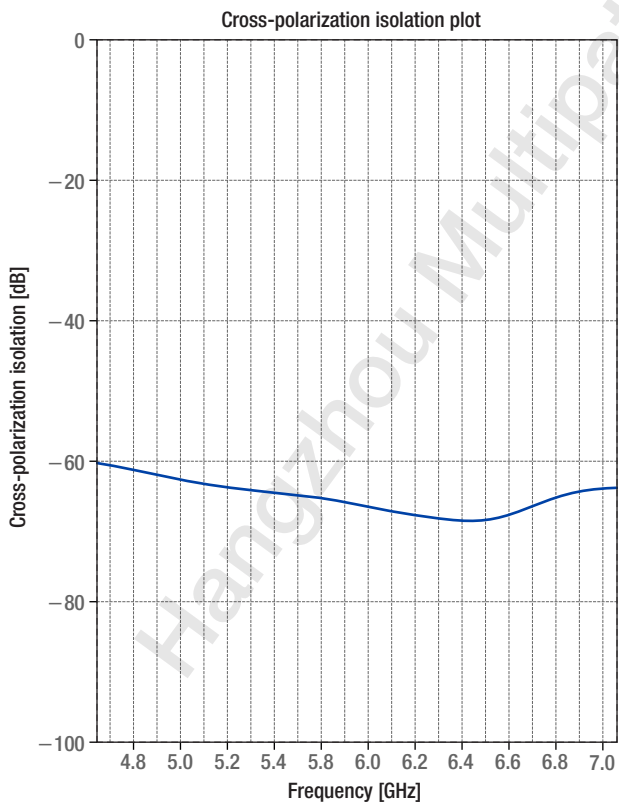
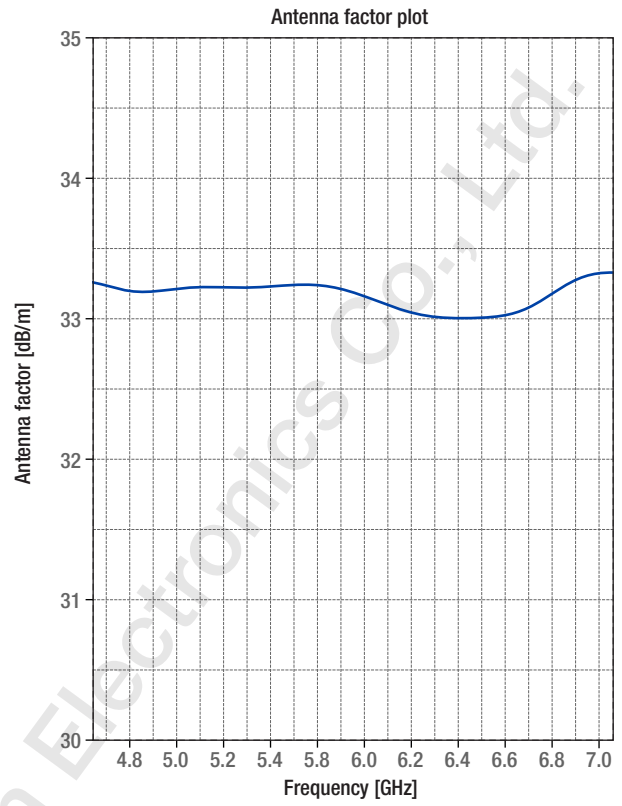
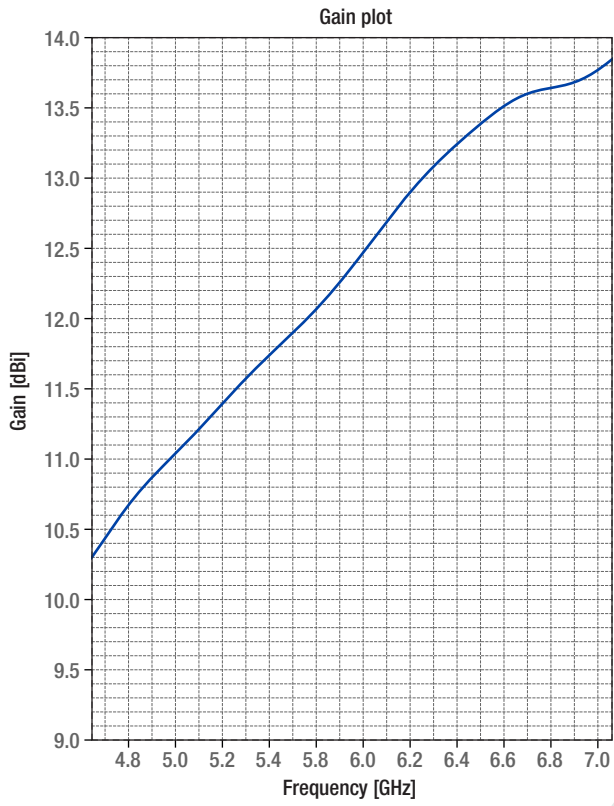


• Dimensional drawing: adapter, WR159-SMA-F (Optional)



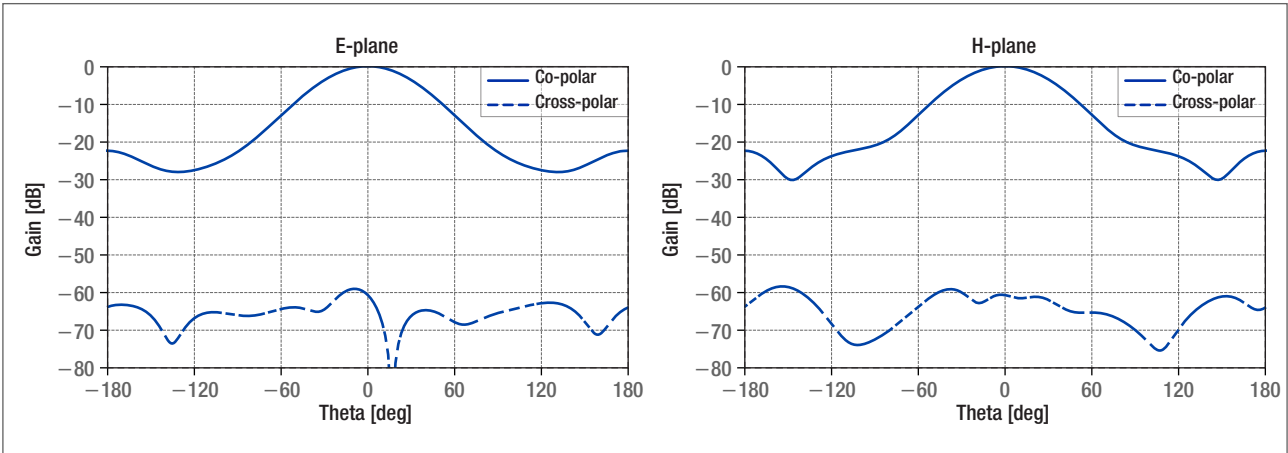
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

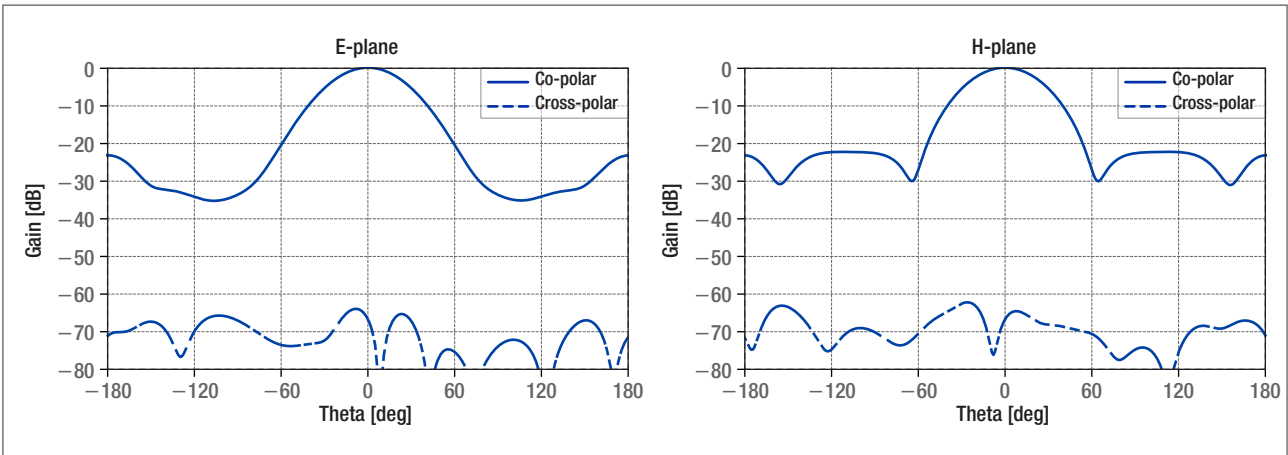


• Radiation patterns

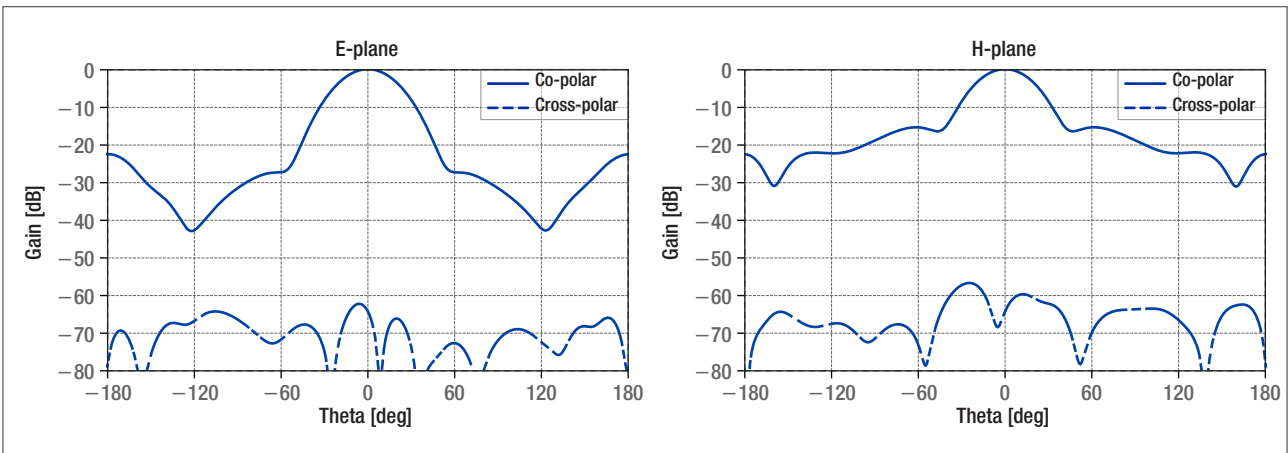
Patterns @ 4.64 GHz



Patterns @ 5.85 GHz



Patterns @ 7.05 GHz



• Data table

Frequency [GHz]	Gain [dBi]	Antenna factor [dB/m]	Cross-polarization isolation [dB]	VSWR
4.64	10.28	33.25	-60.50	1.40
4.7	10.41	33.22	-60.81	1.32
4.8	10.63	33.19	-61.42	1.17
4.9	10.82	33.18	-62.08	1.04
5.0	10.98	33.19	-62.72	1.05
5.1	11.13	33.21	-63.30	1.09
5.2	11.30	33.21	-63.79	1.06
5.3	11.47	33.21	-64.20	1.01
5.4	11.63	33.21	-64.54	1.08
5.5	11.78	33.22	-64.86	1.17
5.6	11.93	33.23	-65.20	1.24
5.7	12.09	33.22	-65.62	1.29
5.8	12.27	33.19	-66.16	1.29
5.9	12.46	33.14	-66.79	1.25
6.0	12.67	33.09	-67.38	1.19
6.1	12.86	33.03	-67.89	1.13
6.2	13.04	33.00	-68.34	1.12
6.3	13.19	32.99	-68.68	1.14
6.4	13.32	32.99	-68.75	1.16
6.5	13.45	33.00	-68.32	1.13
6.6	13.55	33.03	-67.35	1.07
6.7	13.61	33.10	-66.16	1.08
6.8	13.64	33.20	-65.11	1.16
6.9	13.69	33.28	-64.44	1.21
7.0	13.78	33.31	-64.12	1.19
7.05	13.84	33.31	-64.05	1.16

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
4.64	53.93°	55.28°
5.85	44.46°	44.32°
7.05	36.58°	36.19°



Multipath Electronics

Contact

+86-571-56201039

sales@multipath.cn

https://www.multipath-electron.com

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