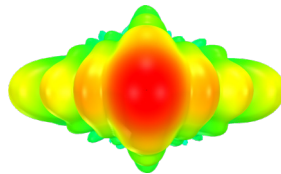


Standard Gain Horn Antennas

4.64 - 7.05 GHz, 20 dBi

Radiation pattern



QR code

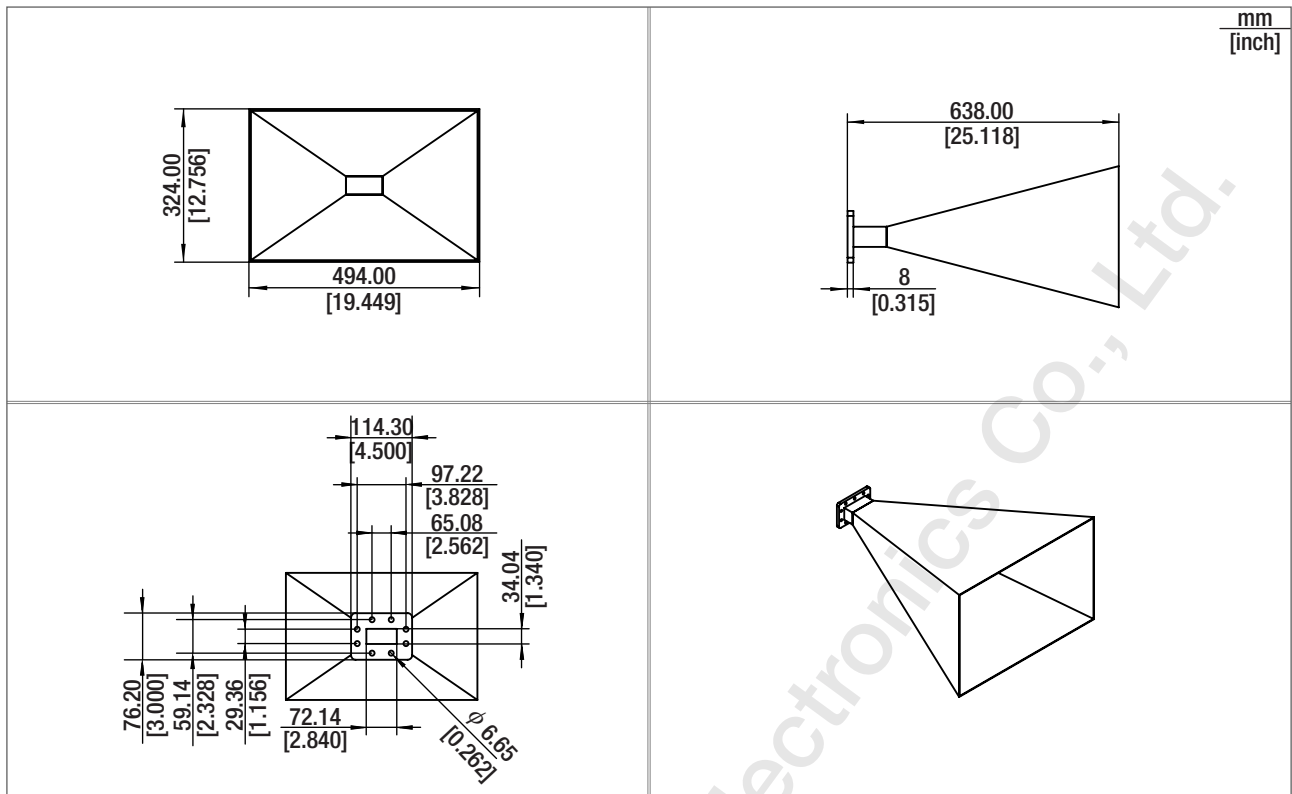


Hangzhou Multipath Electronics Co., Ltd., Zhejiang, China

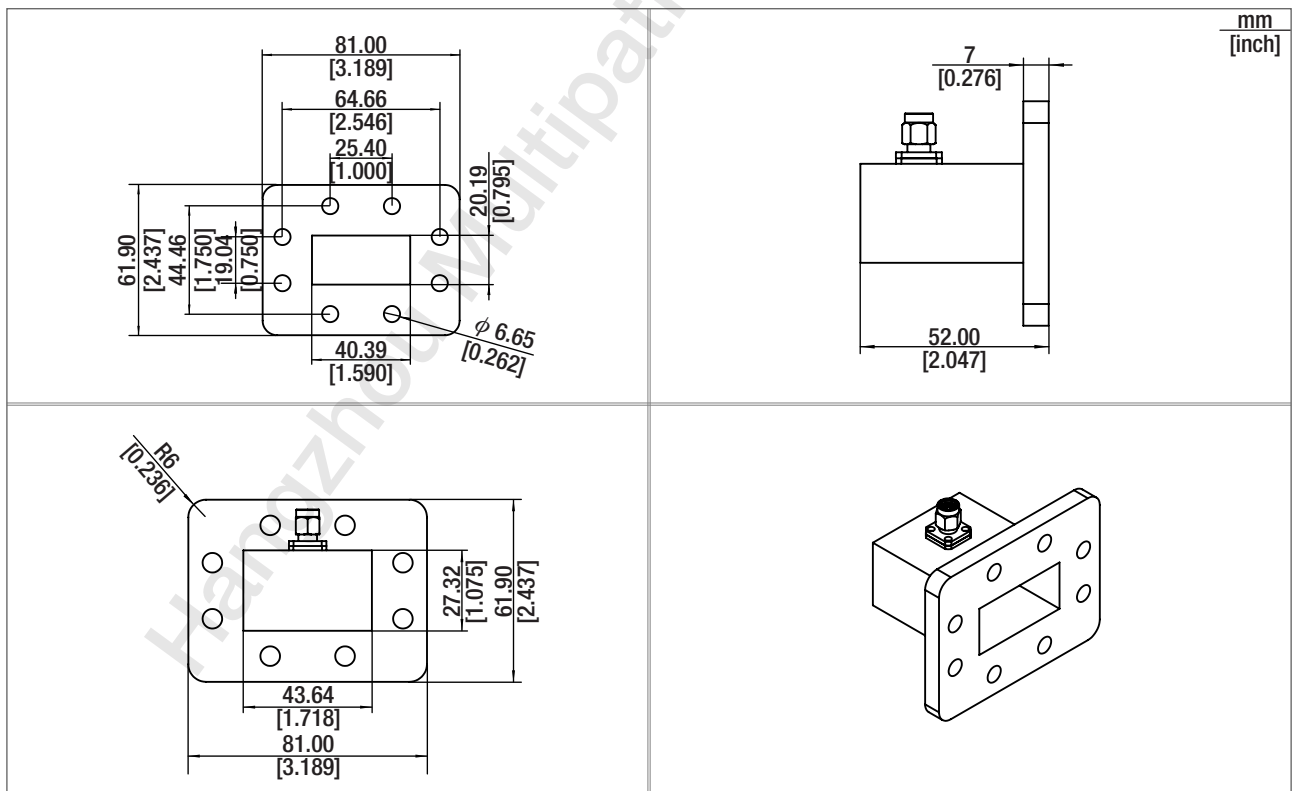
Product specifications

Part number	HA-WR159-20	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	20 Typ.
Frequency range [GHz]	4.64 – 7.05	3dB beamwidth [deg]	E-plane: 20 Typ. H-plane: 20 Typ.
Waveguide band	WR159	Cross-polarization isolation [dB]	75 Typ.
Dimensions (H x W x L) [mm; inch]	169.0 x 254.0 x 379.0; 6.65 x 10.00 x 14.92	VSWR	1.40 Typ.
Weight (approx.) [kg; lb]	1.03; 2.270	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

• Dimensional drawing: horn, HA-WR159-20

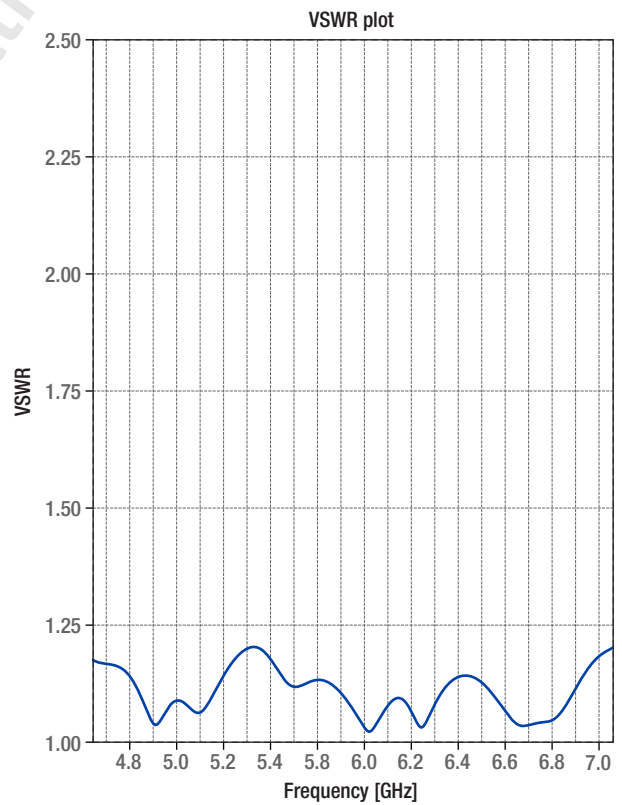
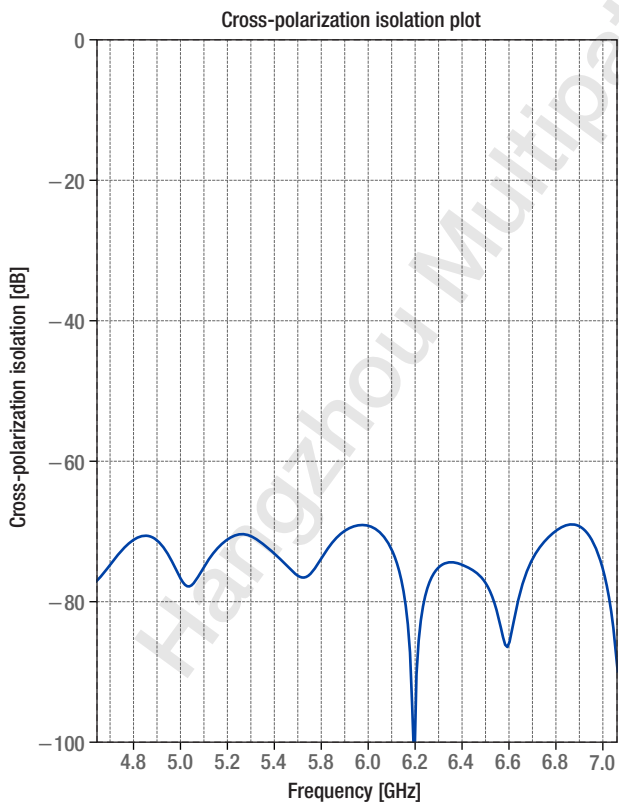
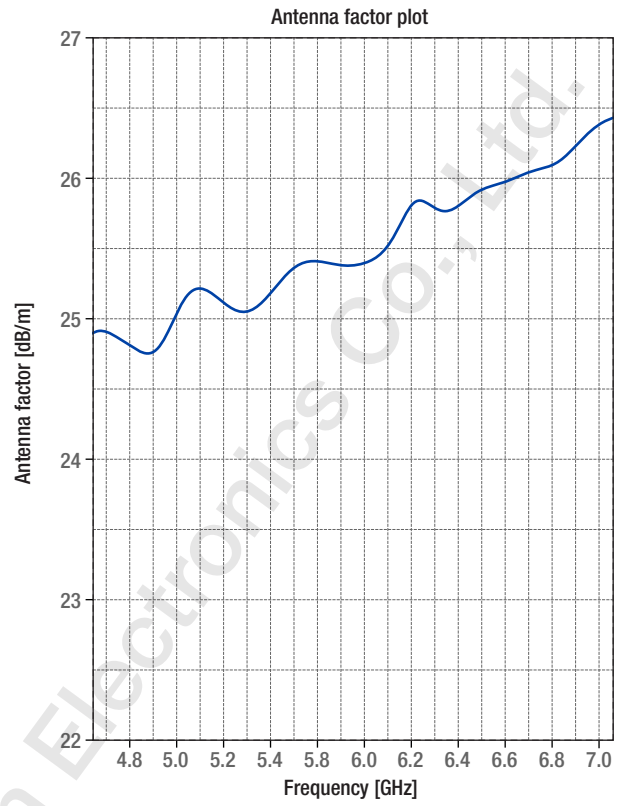
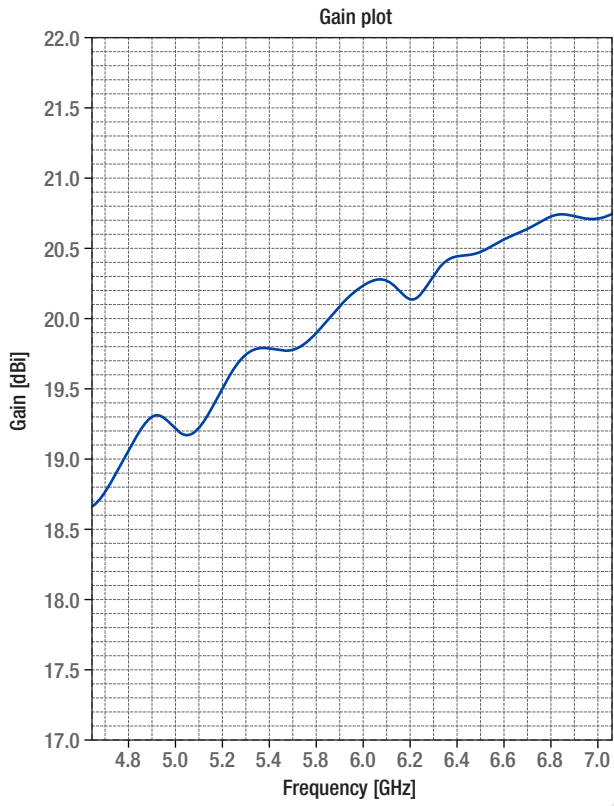


• Dimensional drawing: adapter, WR159-SMA-F (Optional)



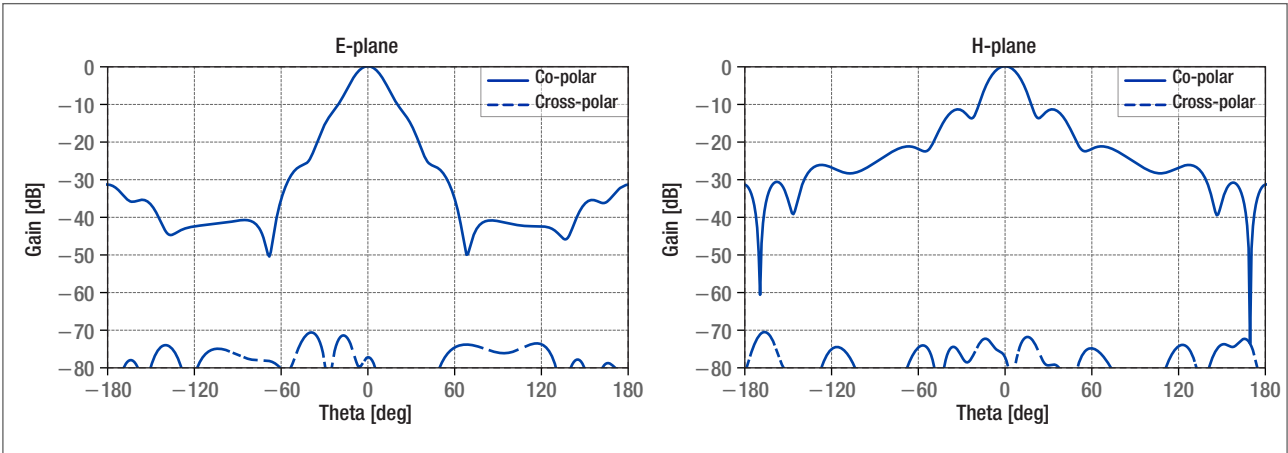
Electrical characteristics

Gain & Antenna factor & Cross-polarization isolation & VSWR

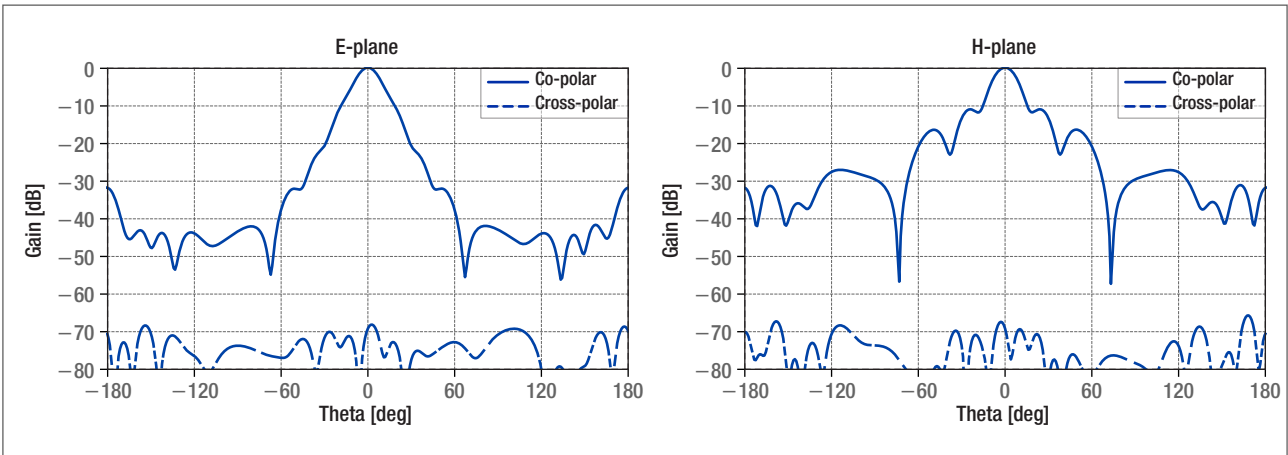


• Radiation patterns

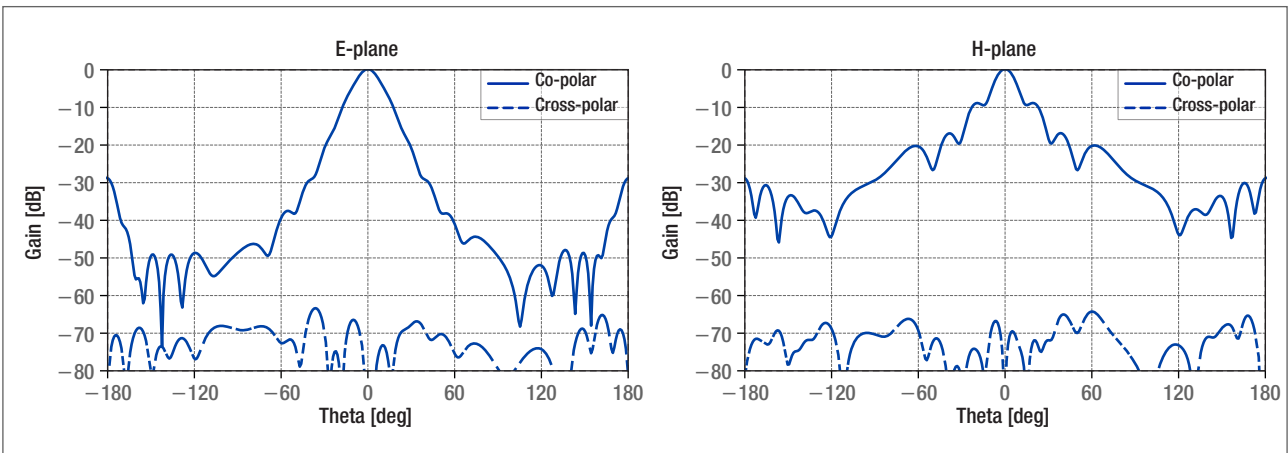
Patterns @ 4.64 GHz



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	18.64	24.88	-76.93	1.17
4.7	18.74	24.89	-74.73	1.16
4.8	19.01	24.81	-71.28	1.14
4.9	19.26	24.74	-70.66	1.05
5.0	19.24	24.93	-74.73	1.07
5.1	19.16	25.18	-76.79	1.06
5.2	19.35	25.16	-72.22	1.09
5.3	19.63	25.05	-70.23	1.17
5.4	19.77	25.07	-71.36	1.19
5.5	19.76	25.24	-74.06	1.14
5.6	19.78	25.37	-76.39	1.11
5.7	19.92	25.39	-72.71	1.12
5.8	20.09	25.36	-69.50	1.09
5.9	20.22	25.38	-69.02	1.02
6.0	20.26	25.49	-72.07	1.06
6.1	20.13	25.76	-94.66	1.07
6.2	20.24	25.80	-75.81	1.05
6.3	20.41	25.76	-74.27	1.12
6.4	20.44	25.87	-75.78	1.13
6.5	20.51	25.94	-82.22	1.09
6.6	20.59	25.99	-78.42	1.03
6.7	20.66	26.05	-71.67	1.03
6.8	20.73	26.11	-69.07	1.05
6.9	20.71	26.26	-69.72	1.13
7.0	20.70	26.39	-77.61	1.18
7.05	20.73	26.42	-89.77	1.19

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
4.64	19.72°	20.34°
5.85	16.57°	16.50°
7.05	16.02°	13.90°



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.