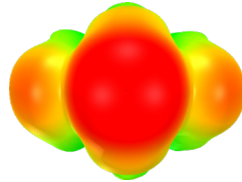


# Standard Gain Horn Antennas

4.64 - 7.05 GHz, 15 dBi

Radiation pattern



QR code

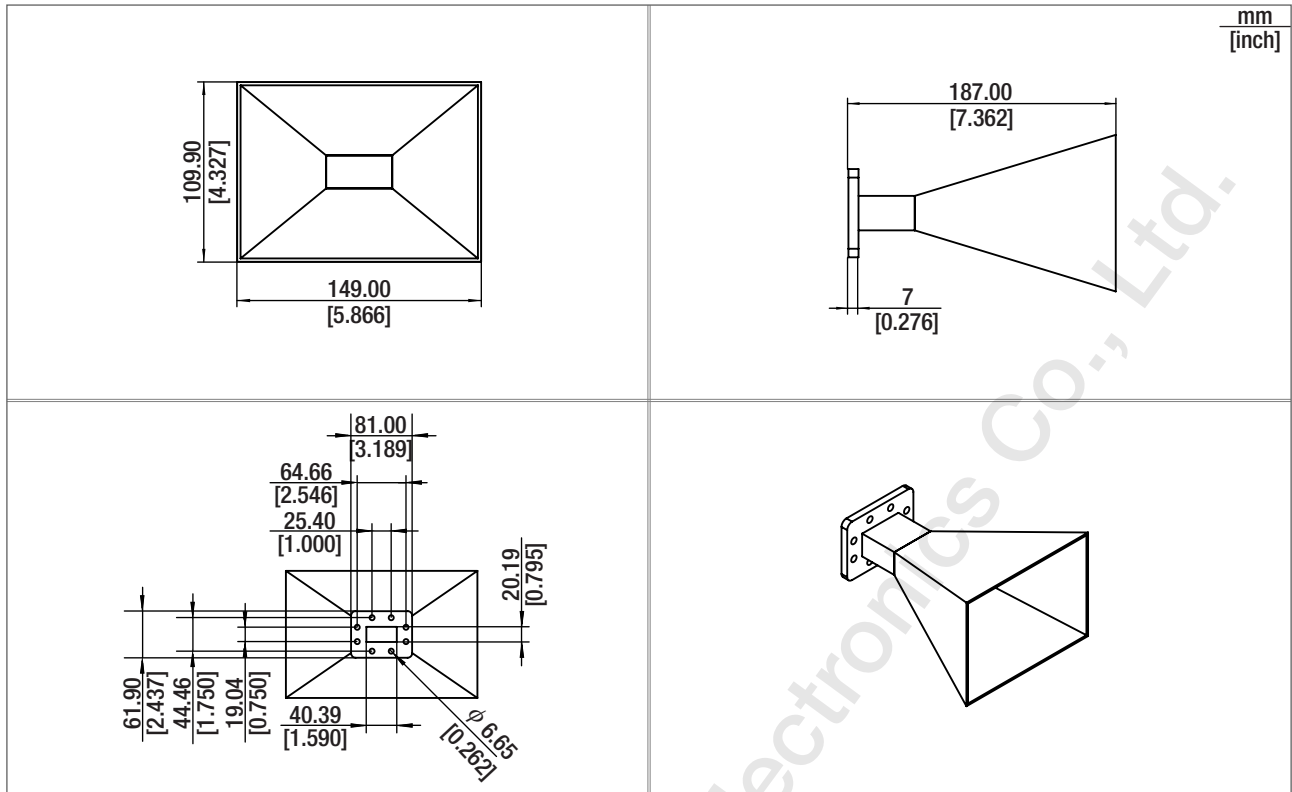


Hangzhou Multipath Electronics Co., Ltd., Zhejiang, China

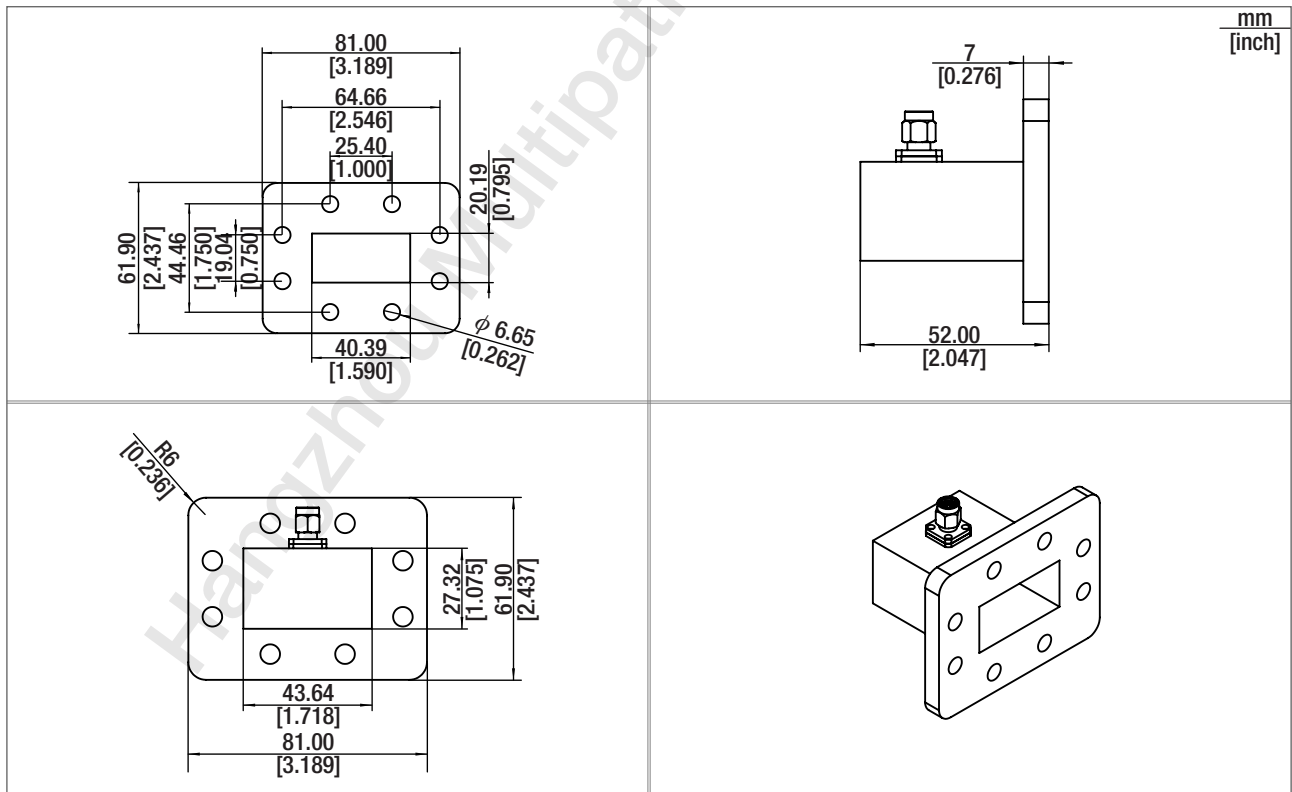
## ⚙️ Product specifications

Part number	HA-WR159-15	Polarization	Single linear
Antenna type	Pyamidal horn	Gain [dBi]	15 Typ.
Frequency range [GHz]	4.64 – 7.05	3dB beamwidth [deg]	E-plane: 25 Typ. H-plane: 25 Typ.
Waveguide band	WR159	Cross-polarization isolation [dB]	70 Typ.
Dimensions (H x W x L) [mm; inch]	109.9 x 149.0 x 239.0; 4.33 x 5.87 x 9.41	VSWR	1.40 Typ.
Weight (approx.) [kg; lb]	0.52; 1.146	Impedance [Ohms]	50
Material	Aluminum	RF connector	SMA-Female

• Dimensional drawing: horn, HA-WR159-15

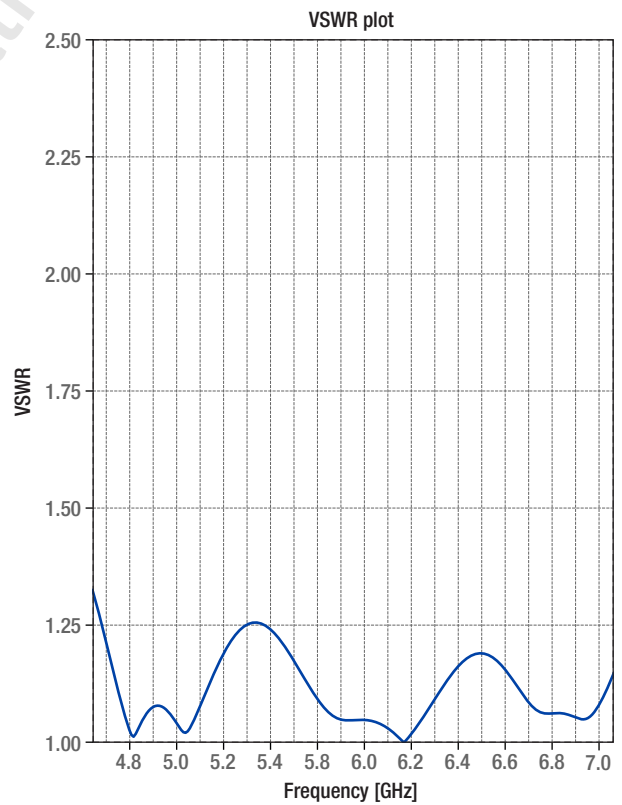
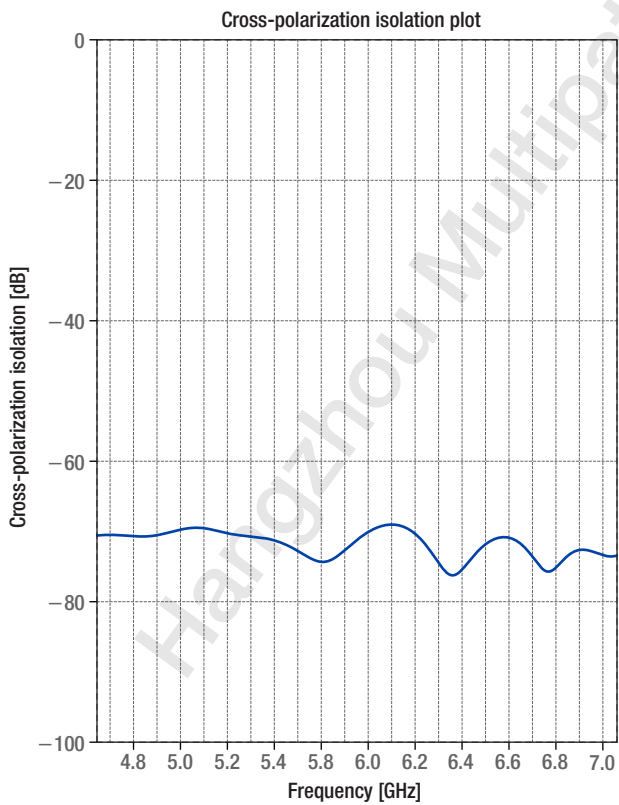
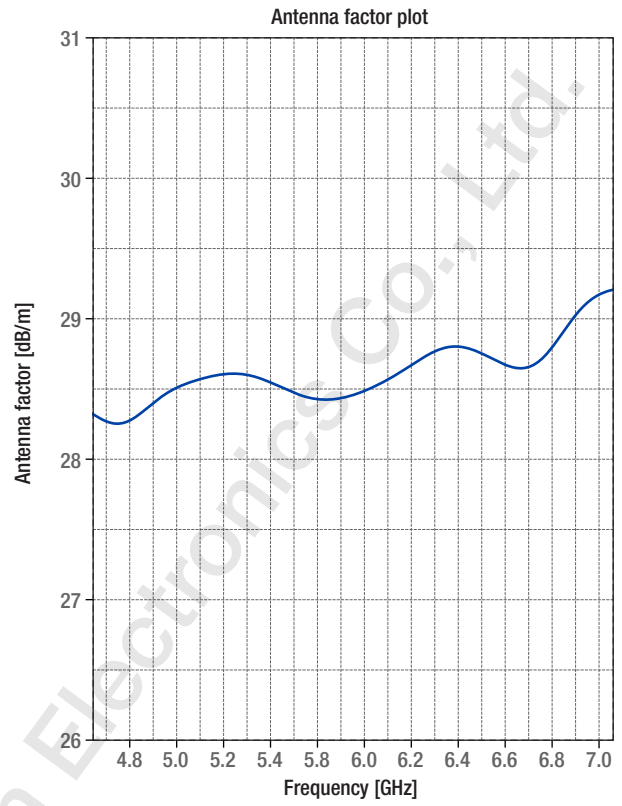
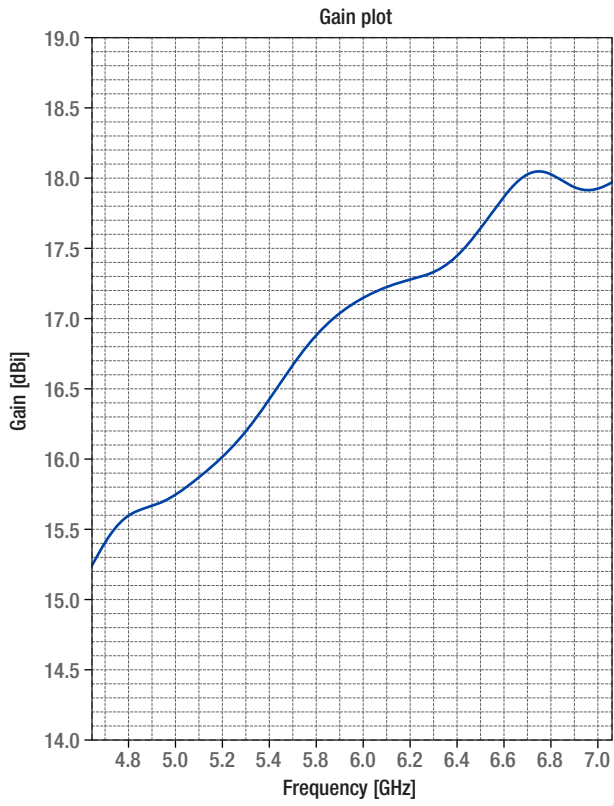


• Dimensional drawing: adapter, WR159-SMA-F (Optional)



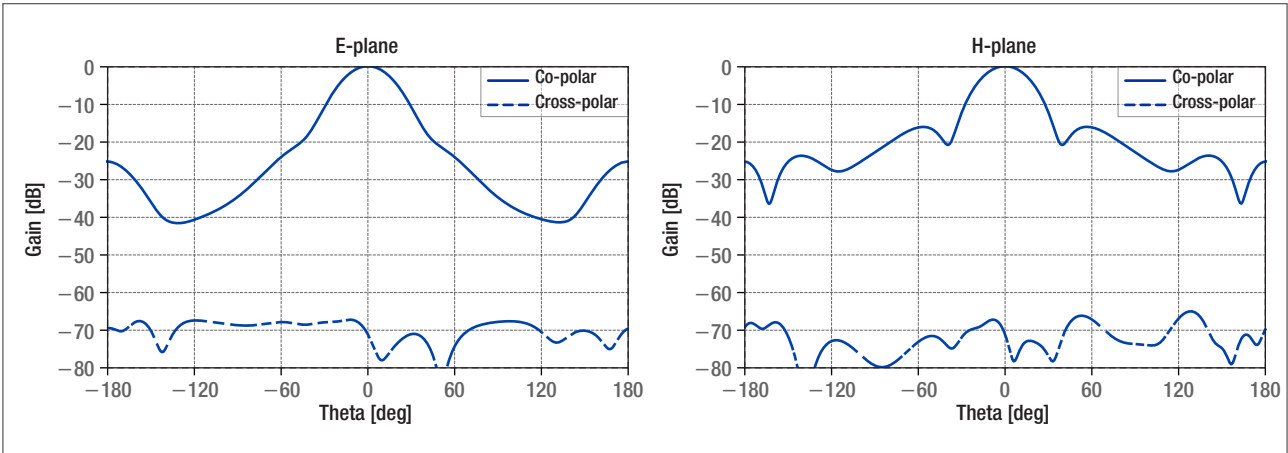
## Electrical characteristics

### Gain & Antenna factor & Cross-polarization isolation & VSWR

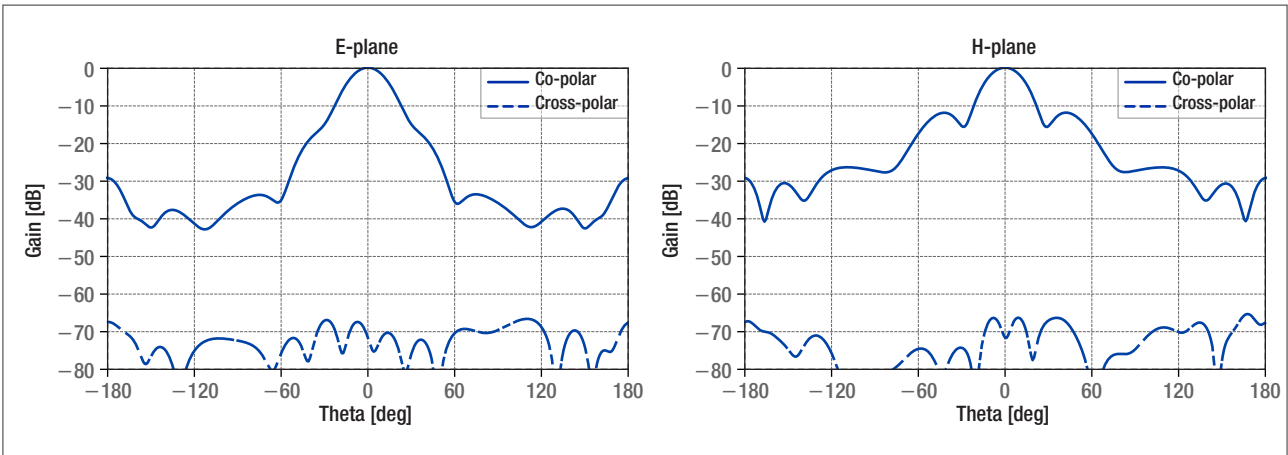


## • Radiation patterns

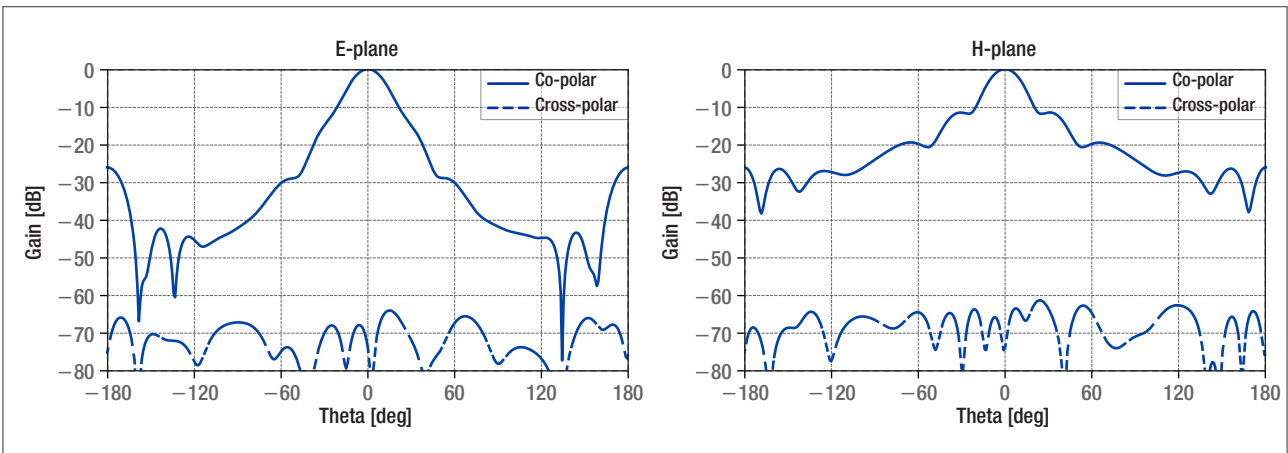
Patterns @ 4.64 GHz



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	15.21	28.31	-70.87	1.32
4.7	15.38	28.25	-70.77	1.22
4.8	15.57	28.25	-70.93	1.04
4.9	15.64	28.36	-70.92	1.06
5.0	15.70	28.47	-70.24	1.06
5.1	15.81	28.54	-69.75	1.03
5.2	15.93	28.58	-70.21	1.14
5.3	16.08	28.59	-70.82	1.23
5.4	16.27	28.57	-71.14	1.25
5.5	16.49	28.50	-71.96	1.22
5.6	16.71	28.44	-73.59	1.15
5.7	16.90	28.41	-74.61	1.08
5.8	17.04	28.42	-72.65	1.04
5.9	17.14	28.47	-70.30	1.04
6.0	17.21	28.55	-69.30	1.03
6.1	17.26	28.64	-70.29	1.01
6.2	17.30	28.74	-73.77	1.07
6.3	17.39	28.79	-76.47	1.14
6.4	17.55	28.76	-73.21	1.18
6.5	17.76	28.69	-71.18	1.17
6.6	17.95	28.63	-72.00	1.12
6.7	18.04	28.68	-75.57	1.06
6.8	17.98	28.86	-74.30	1.06
6.9	17.91	29.06	-72.91	1.05
7.0	17.92	29.17	-73.81	1.09
7.05	17.96	29.19	-73.70	1.14

Frequency [GHz]	E-plane, 3dB beamwidth	H-plane, 3dB beamwidth
4.64	31.46°	31.47°
5.85	24.82°	24.76°
7.05	21.80°	21.54°



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