

4 - 8 GHz Linearly Polarised High Gain Wideband Ridged Horn fitted with a Waveguide Flange

Catalogue number **QWH-SL-4-8-F-HG**

Steatite reference **QMS-00498**

Contents **Summary**
Typical Gain / Antenna Factor
Typical Beamwidth / Patterns
VSWR

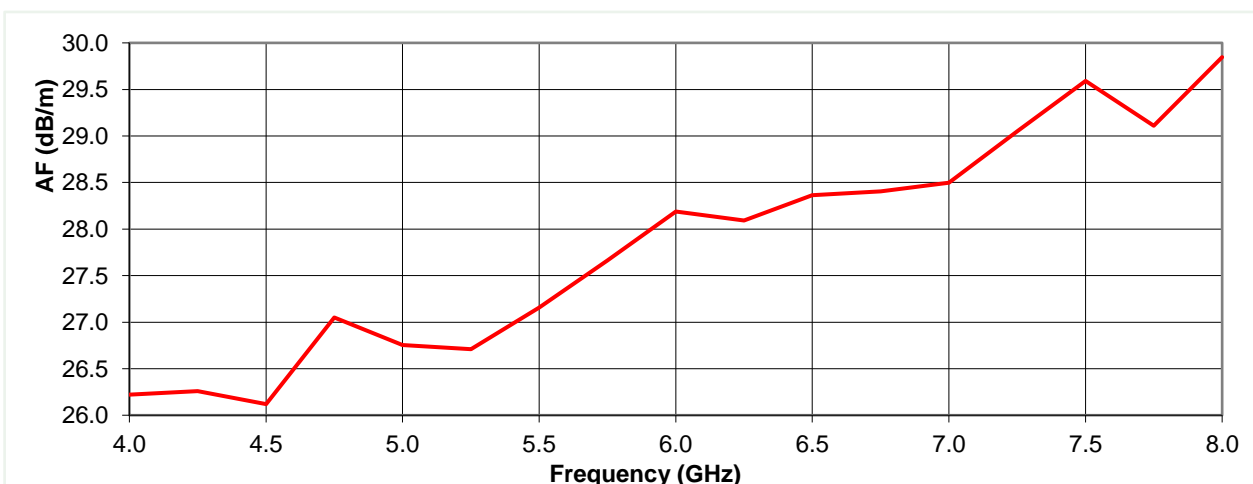
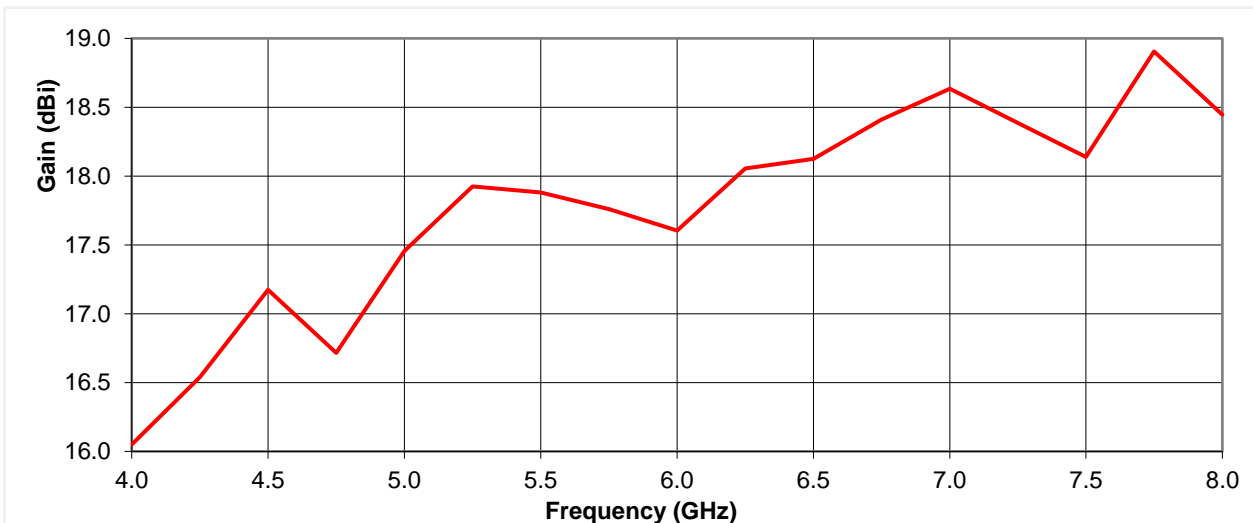


Typical Specification

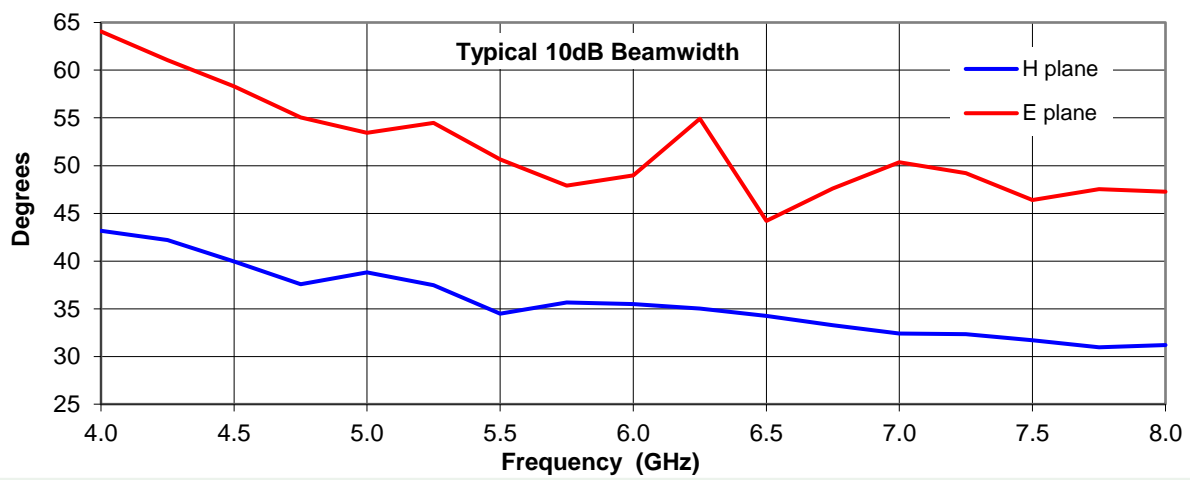
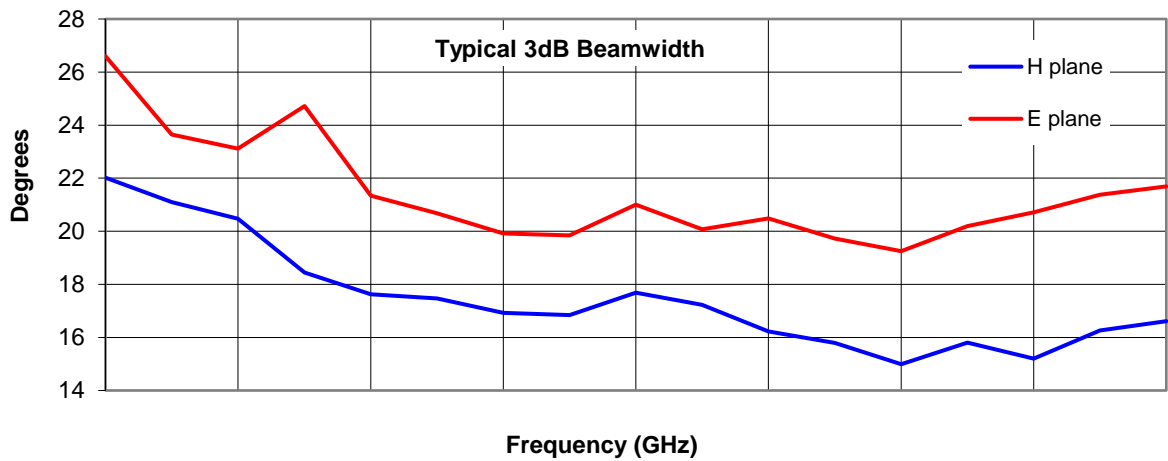
Frequency	4 to 8 GHz
Connector Type	WRD350 Flange
Power Handling	2kW CW, 20kW Peak
VSWR	<1.5:1 Typical
Gain	16.1 to 18.9 dBi
Antenna Factor	26.1 to 29.8 dB/m
3dB Beamwidth	15 to 27 degrees
10dB Beamwidth	31 to 64 degrees
Weight	3.2 kg nominal
Maximum Size	335 x 273 mm external aperture x 500 mm long
Mounting	Mounting flange at centre of gravity, having two holes on each horn side, diameter 6 mm, 50 mm centres.
Construction	Aluminium horn, powdercoat finish. Plastic composite window.

Typical Antenna Gain / Factor

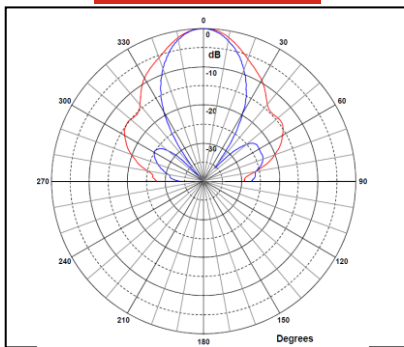
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



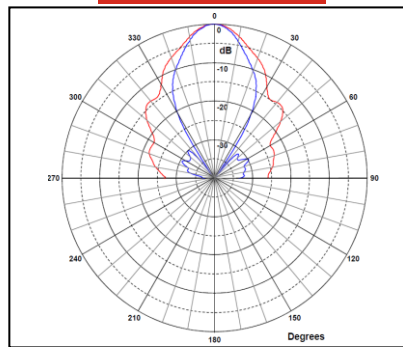
Typical Beamwidth / Radiation Patterns



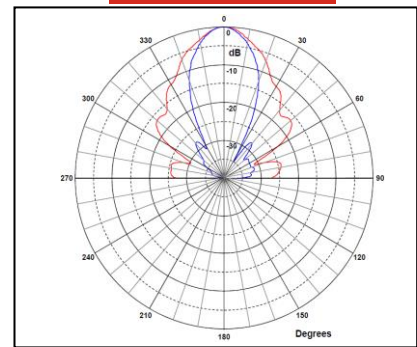
4 GHz



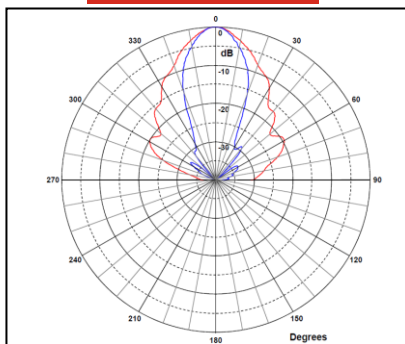
5 GHz



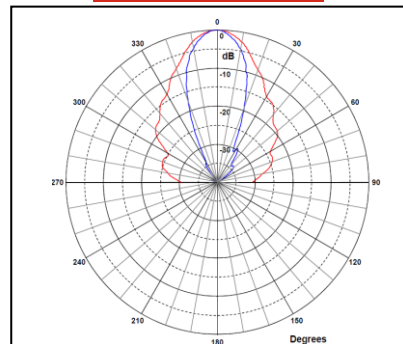
6 GHz



7 GHz



8 GHz



Red trace = E-plane, Blue trace = H-plane cut