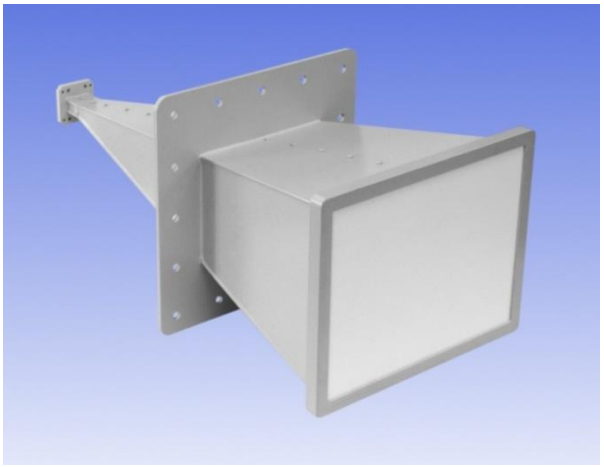
6.5 - 18 GHz Linearly Polarised High gain Wideband Ridged Horn Antenna fitted with a Waveguide Flange and a Radome

Catalogue number	**QWH-SL-6.5-18-F-HG-R**
Q-par reference	**QMS-00827**
Contents	**Summary** **Typical Gain / Antenna Factor** **Typical Beamwidth / Patterns** **VSWR**

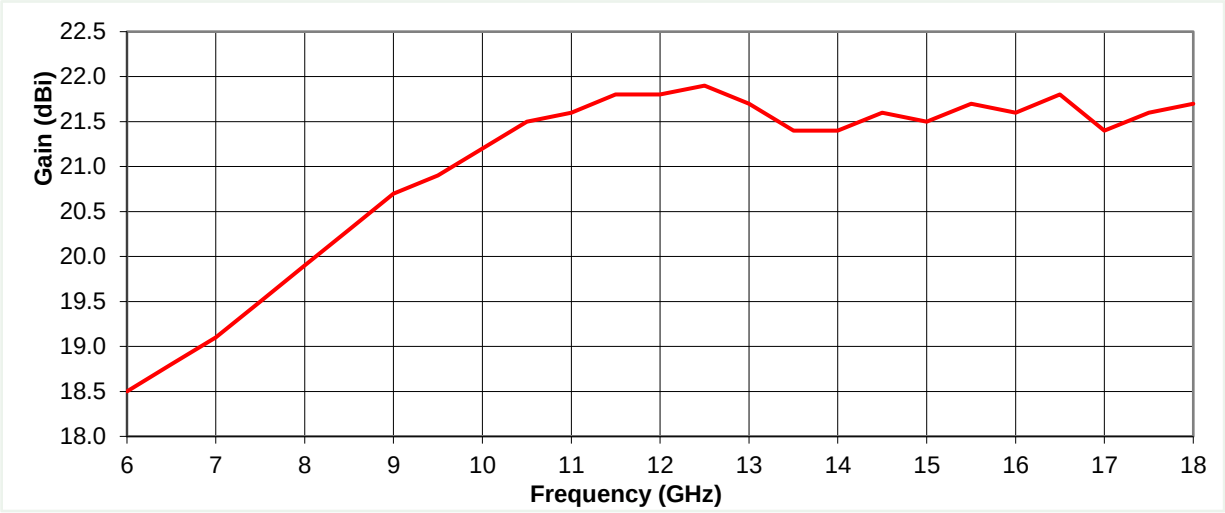


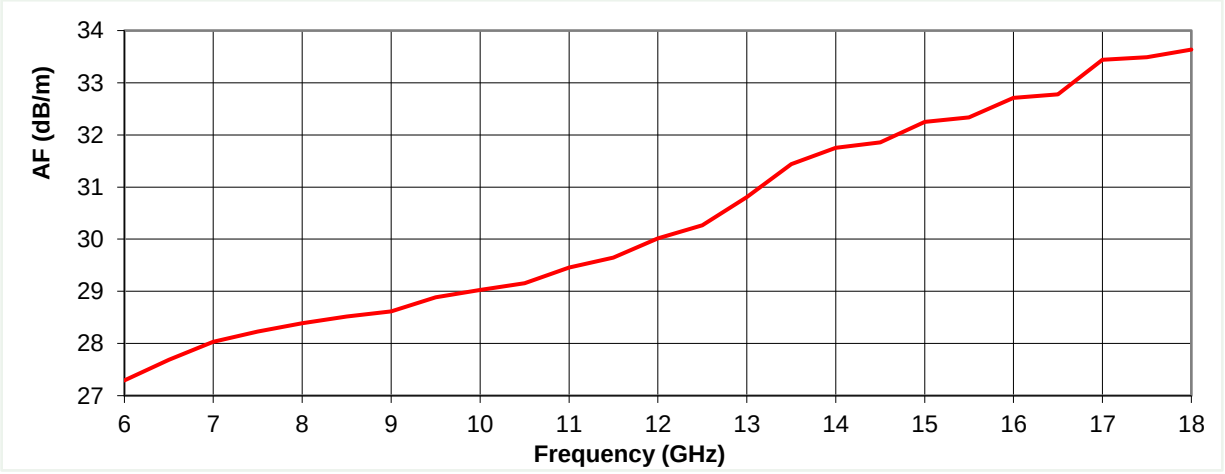
Typical Specification

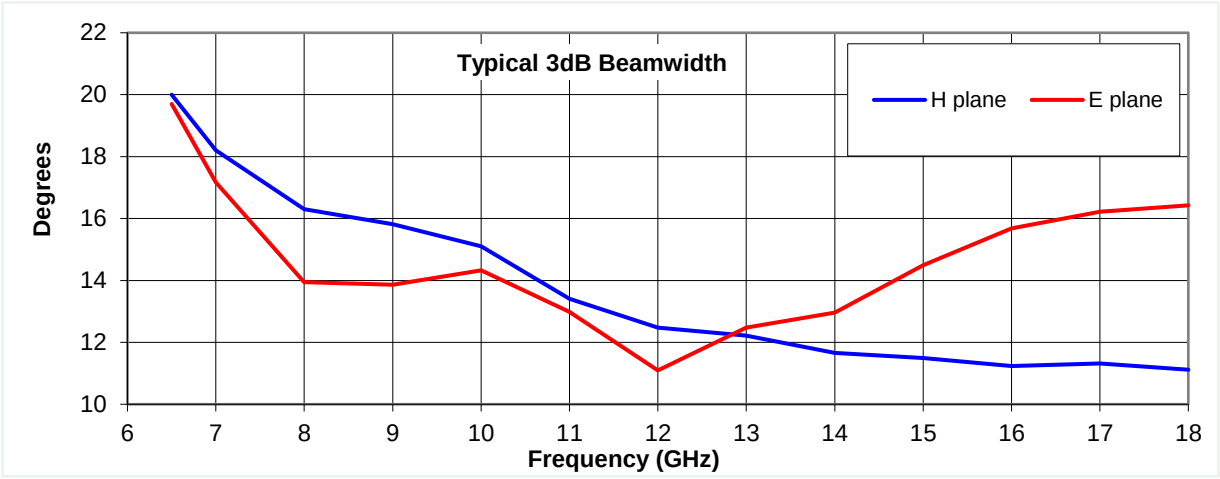
Frequency	6.5 to 18 GHz
Connector Type	WRD650 flange
Power Handling	4 kW c.w.
VSWR	< 1.15:1 at 9 to 18 GHz 1.3:1 maximum
Gain	18.5 to 21.9 dBi
Antenna Factor	27.3 to 33.6 dB/m
3dB Beamwidth	11 to 20 degrees
10dB Beamwidth	22 to 56 degrees
Weight	3.5 kg
Maximum Size	200 x 160 mm aperture x 426 mm long
Mounting	Mount flange at centre of gravity, with 16 holes, diameter 6 mm, 40 mm centres
Construction	Brass horn with composite plastic radome, stainless steel screws, painted.

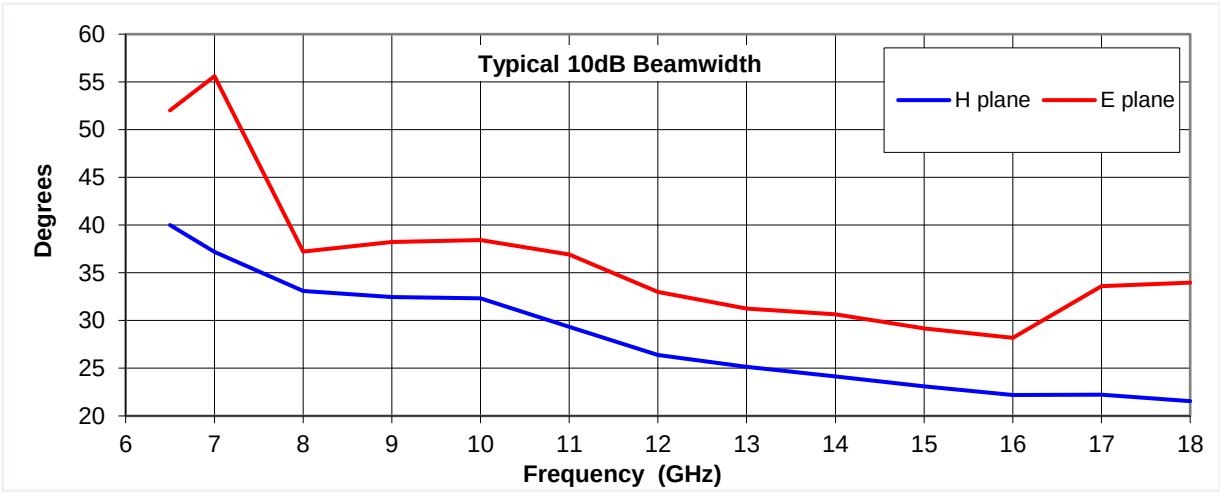
Typical Antenna Gain / Factor

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.

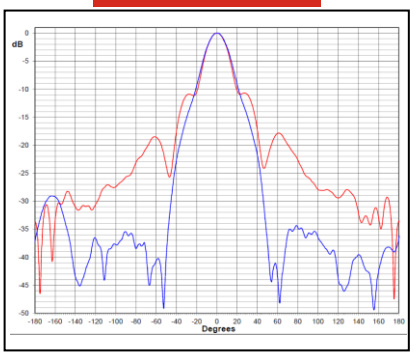




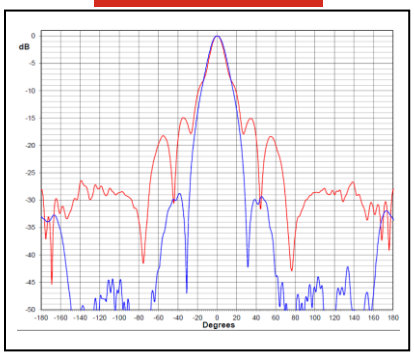




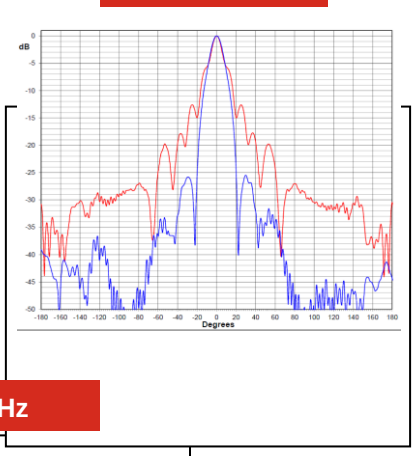
6.5 GHz



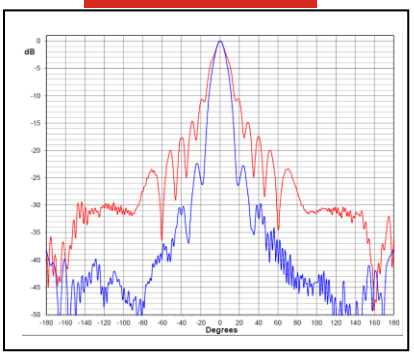
9 GHz



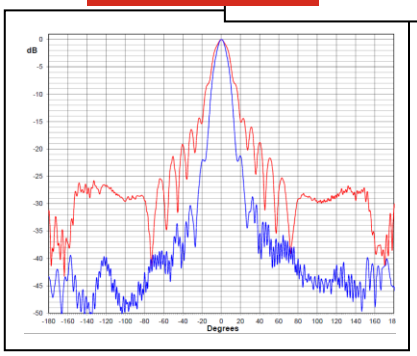
12 GHz



15 GHz



18 GHz



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

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