

18 - 40 GHz Linearly Polarised Wideband Ridged Horn Antenna fitted with a Waveguide Flange and Radome

Catalogue number **QWH-SL-18-40-F-HG-R**

Q-par reference **QMS-01034**

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

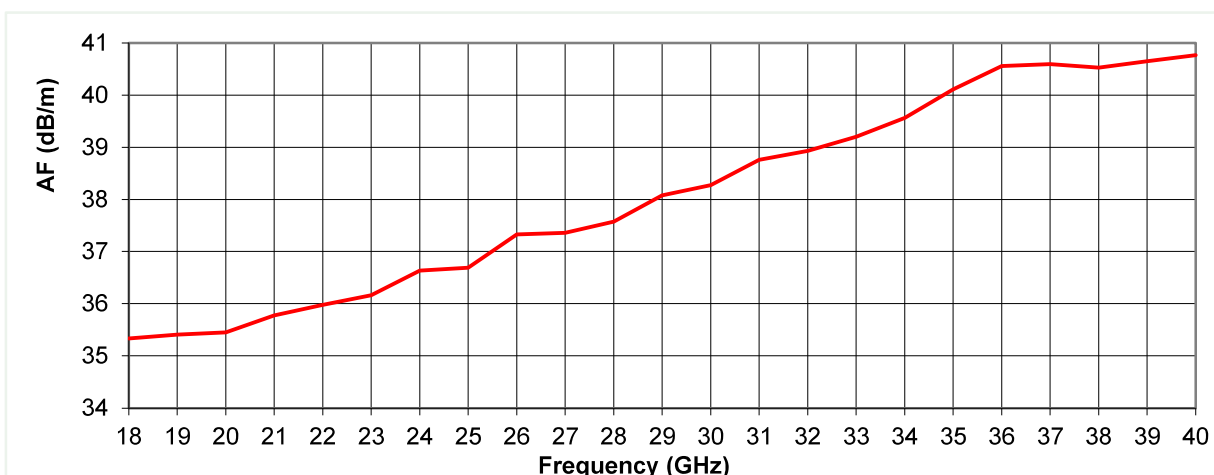
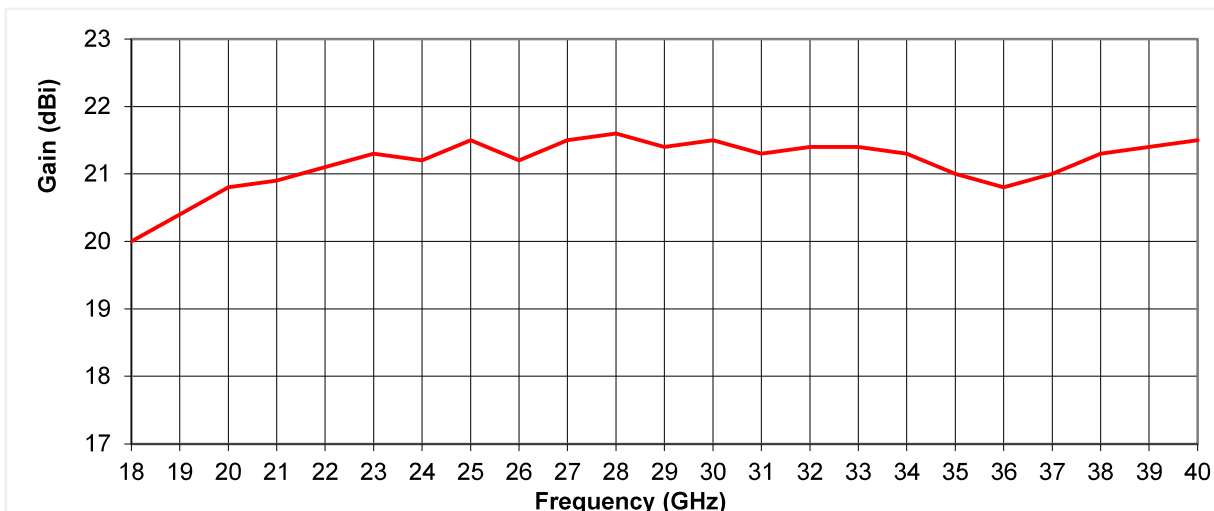


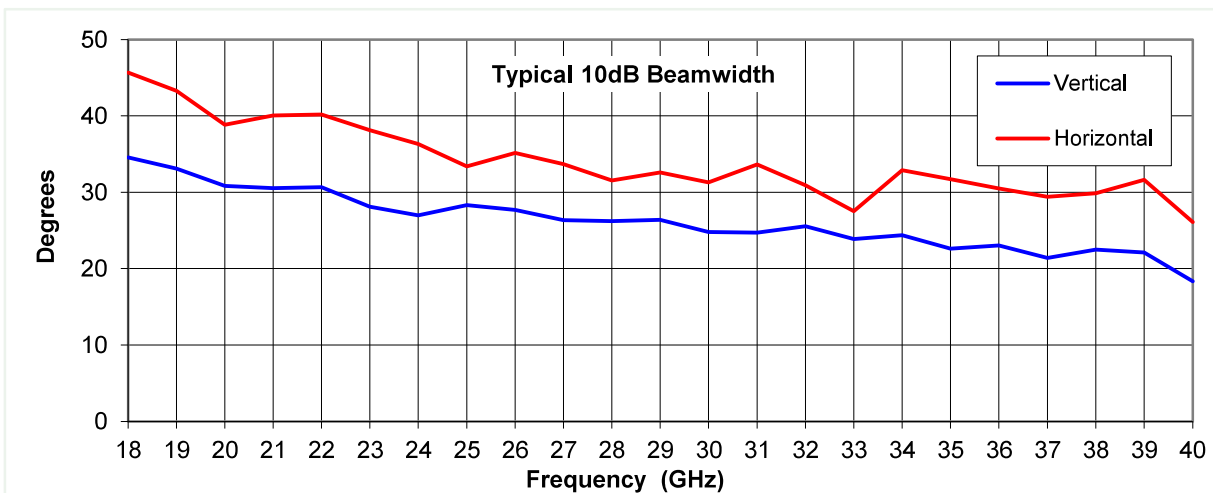
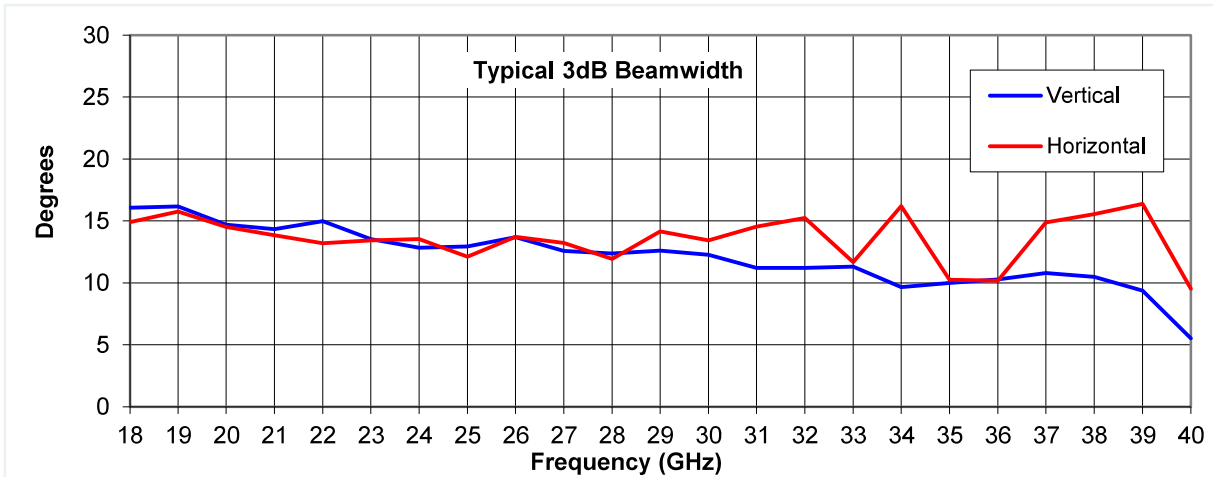
Typical Specification

Frequency	18 to 40 GHz
Connector Type	WRD 180 Waveguide Flange
Power Handling	500W CW / 4kW Peak (1 atmosphere)
VSWR	Typically < 1.3:1; 1.6 :1 maximum
Gain	20 to 21.6 dBi
Antenna Factor	35.3 to 40.8 dB/m
3dB Beamwidth	6 to 16 degrees
10dB Beamwidth	18 to 46 degrees
Weight	0.6 kg
Maximum Size	101 x 83 mm aperture x 196 mm long
Mounting	8 holes, diameter 6 mm, 37.5 mm centres
Construction	Electroformed copper feed with brass flange and engineering plastic radome, painted

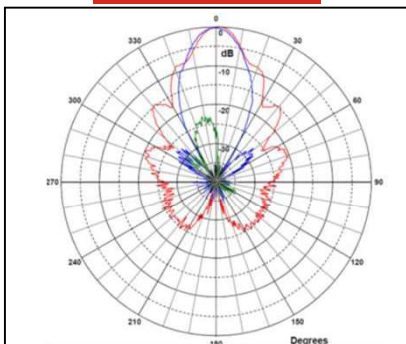
Typical Antenna Gain / Factor

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.

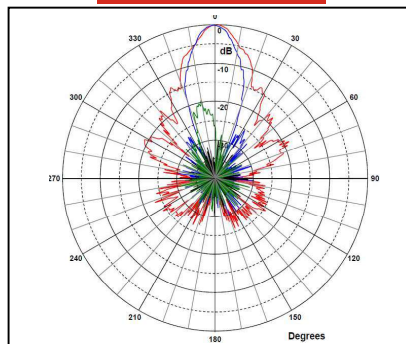




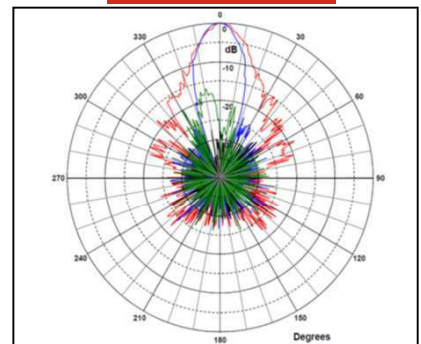
18 GHz



24 GHz



29 GHz



Red trace = Horizontal, Blue trace = Vertically polarised cut, Black & Green = cross polar