

# 18 - 40 GHz Linearly Polarised Wideband Ridged Horn Antenna fitted with a K type Connector and Radome

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

Q-par reference **QMS-00880**

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**Typical Beamwidth / Patterns**  
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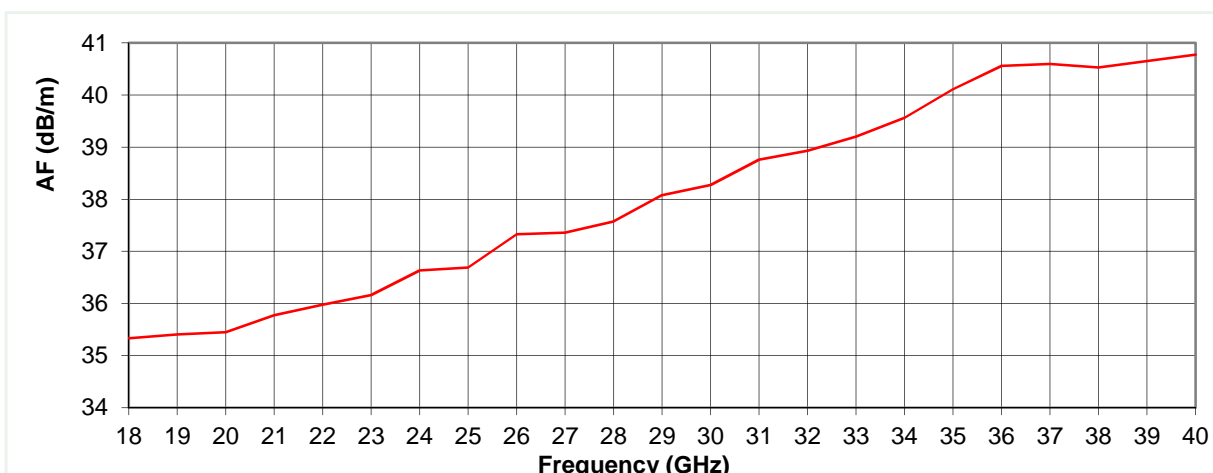
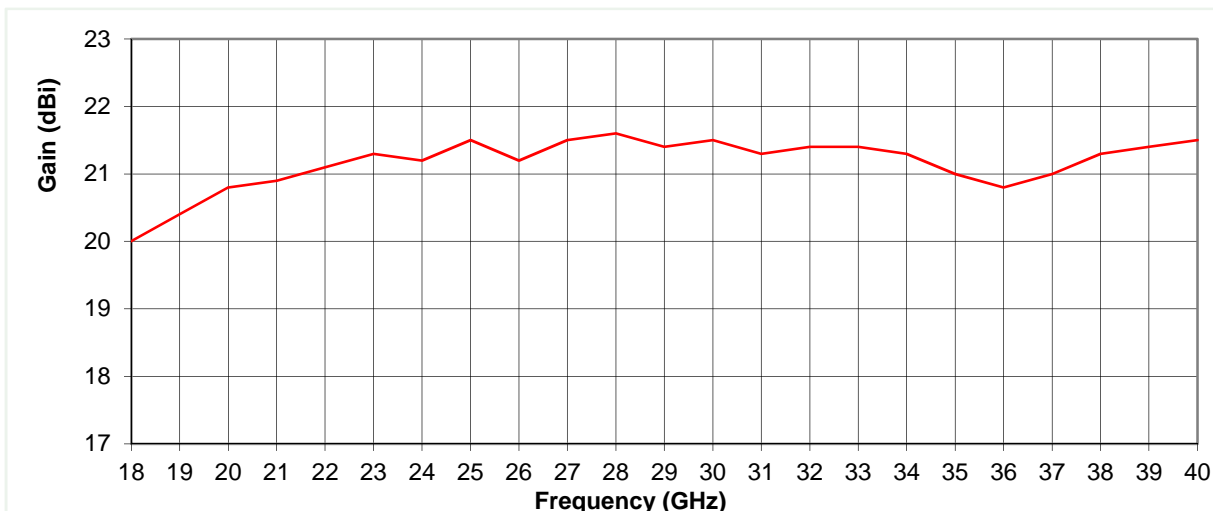


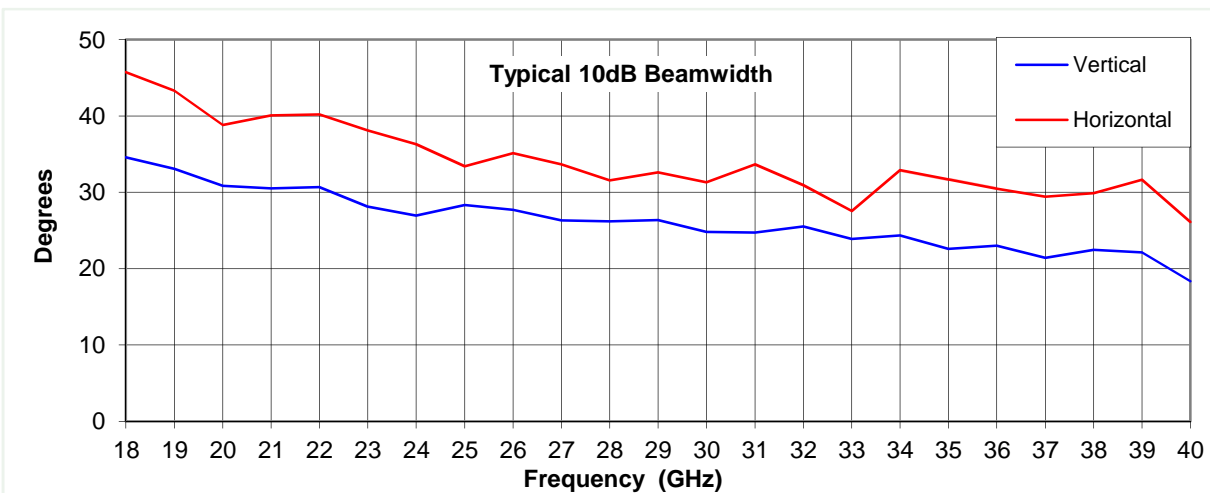
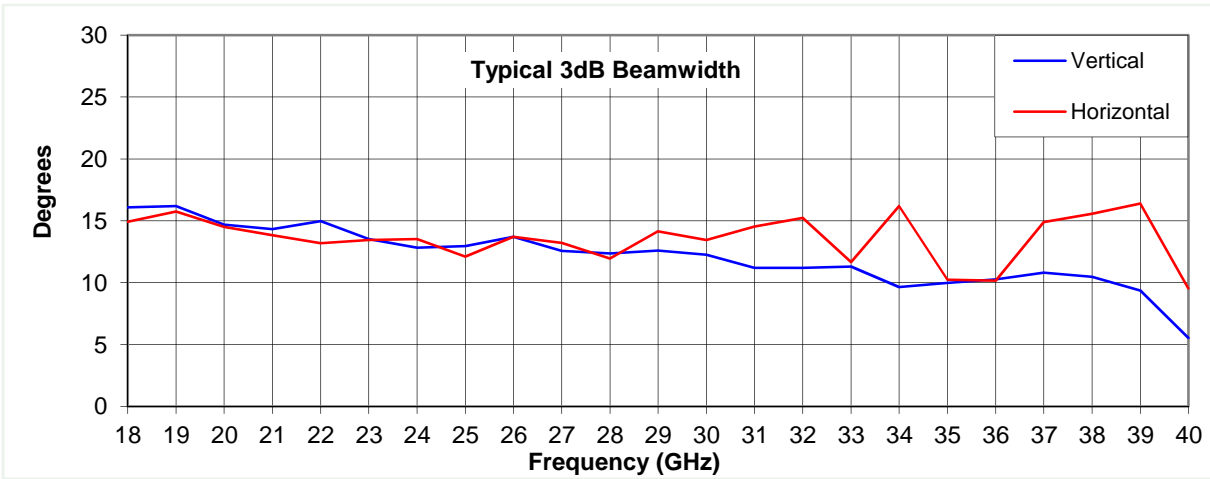
## Typical Specification

<b>Frequency</b>	18 to 40 GHz
<b>Connector Type</b>	K type (2.92mm) jack
<b>Power Handling</b>	20 Watt c.w.
<b>VSWR</b>	Typically < 1.3:1; 1.6 :1 maximum
<b>Gain</b>	20 to 21.6 dBi
<b>Antenna Factor</b>	35.3 to 40.8 dB/m
<b>3dB Beamwidth</b>	6 to 16 degrees
<b>10dB Beamwidth</b>	18 to 46 degrees
<b>Weight</b>	0.6 kg
<b>Maximum Size</b>	100 x 83 mm aperture x 229 mm long
<b>Mounting</b>	8 holes, diameter 6 mm, 37.5 mm centres
<b>Construction</b>	Electroformed copper feed with brass flange, aluminium transition and engineering plastic radome, painted

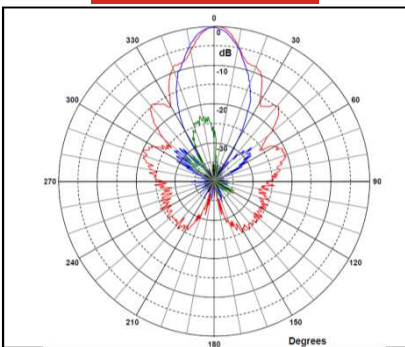
## Typical Antenna Gain / Factor

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.

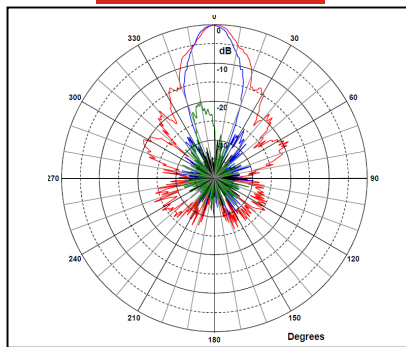




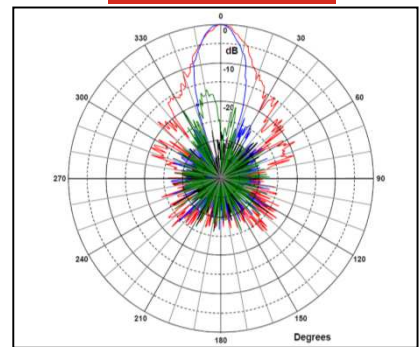
**18 GHz**



**24 GHz**



**29 GHz**



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