



# Wideband Dual Polarised Horn Antenna

## 18 to 40 GHz

Catalogue number: **QWH-DL-18-40-K-SG-R**

Q-par reference: **QMS-00254**

Contents: **Summary**  
**Typical Antenna Gain / Factor**  
**Typical Beamwidth / Patterns**  
**VSWR**  
**Isolation - *between connectors***

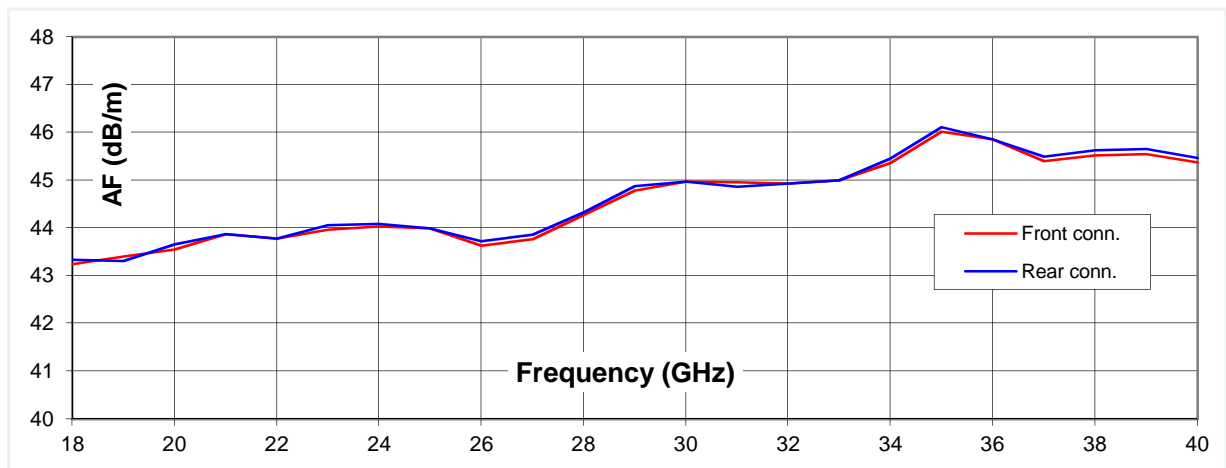
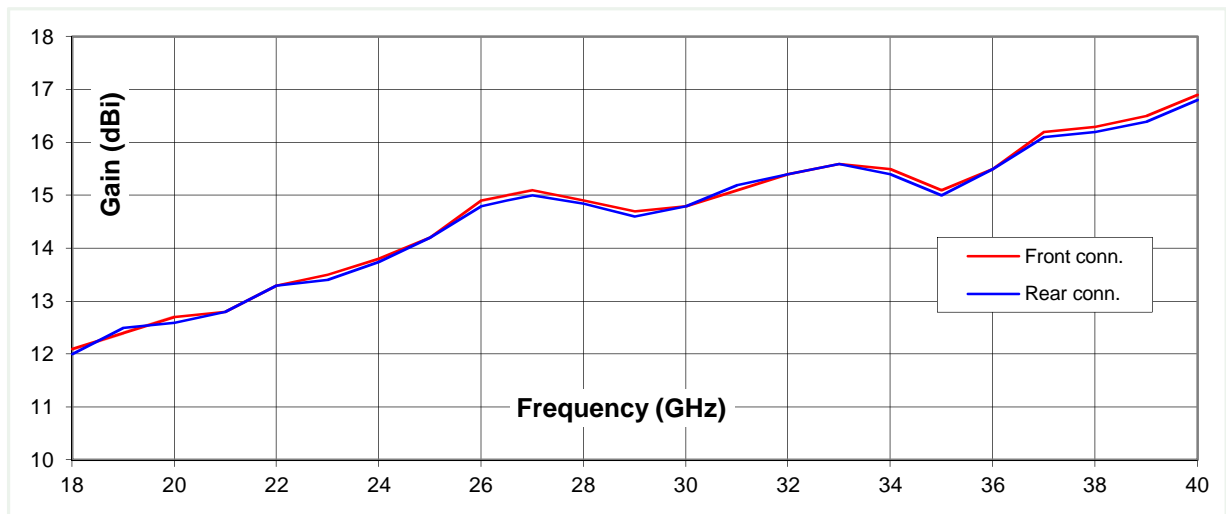


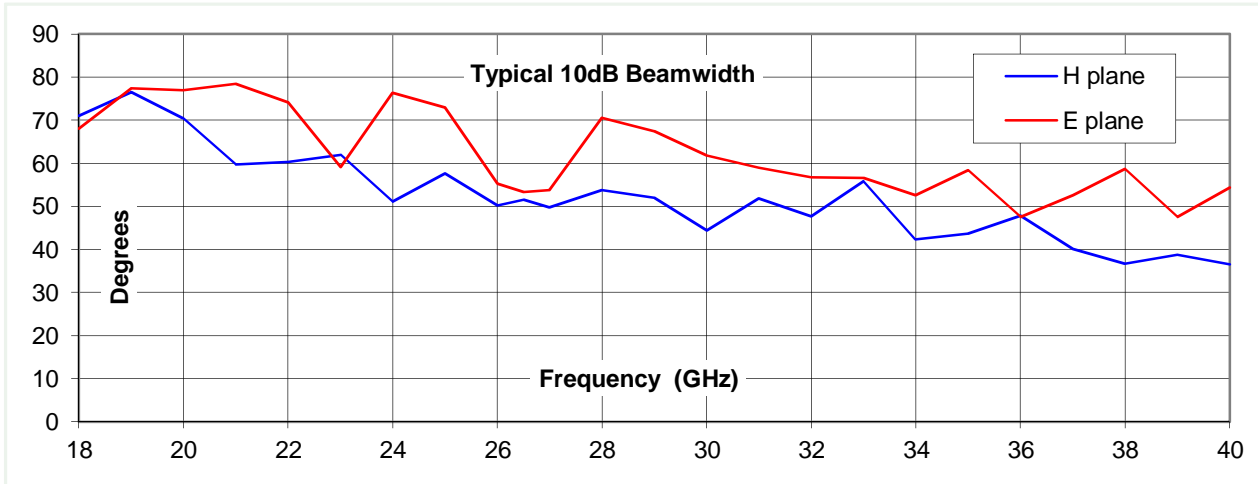
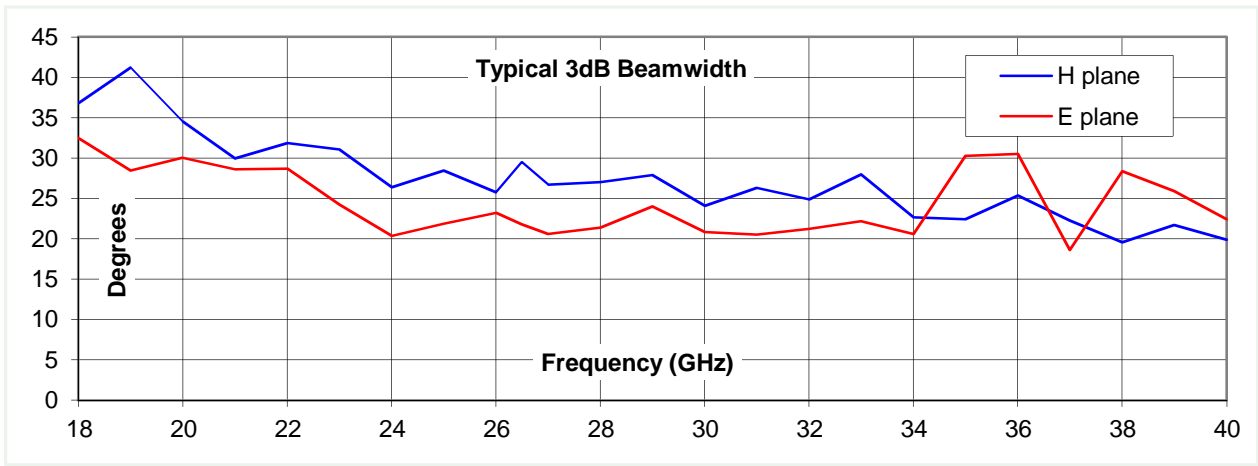
## Typical Specification

<b>Frequency</b>	18 to 40 GHz
<b>Connector type</b>	K type jack (2.9 mm)
<b>Power Handling</b>	20 Watt c.w.
<b>VSWR</b>	Typically < 2.5:1. 3.2:1 maximum.
<b>Isolation</b>	Typically > 25 dB between connectors. 20 dB minimum.
<b>Gain</b>	12 to 16.9 dBi
<b>Antenna Factor</b>	43.2 to 46.0 dB/m
<b>3dB Beamwidth</b>	19 to 41 degrees
<b>Weight</b>	270 g
<b>Size- max.</b>	47 mm x 47 mm ext. aperture, 68 mm long
<b>Mounting</b>	4 holes tapped M4 on 30 mm P.C.D
<b>Construction</b>	Aluminium and engineering plastics. Painted.

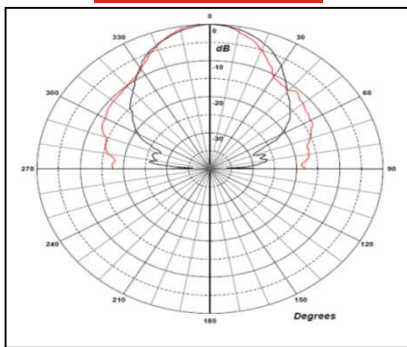
## Typical Antenna Gain / Factor

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.

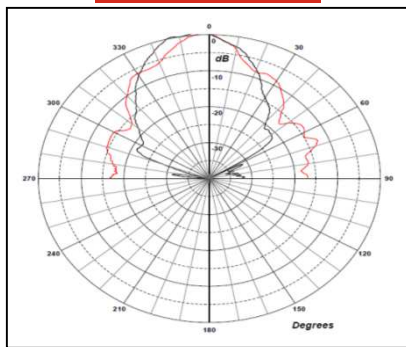




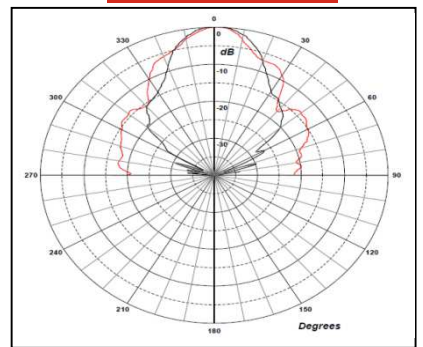
18 GHz



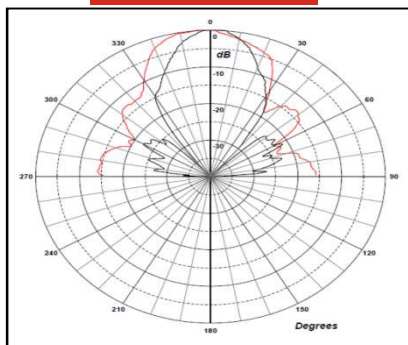
25 GHz



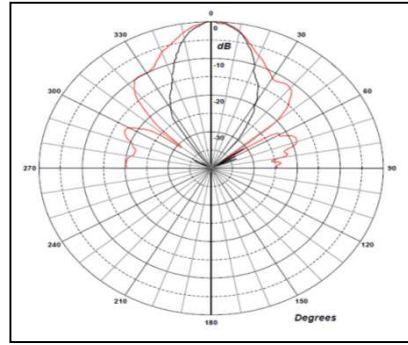
30 GHz



35 GHz



40 GHz



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

