

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*



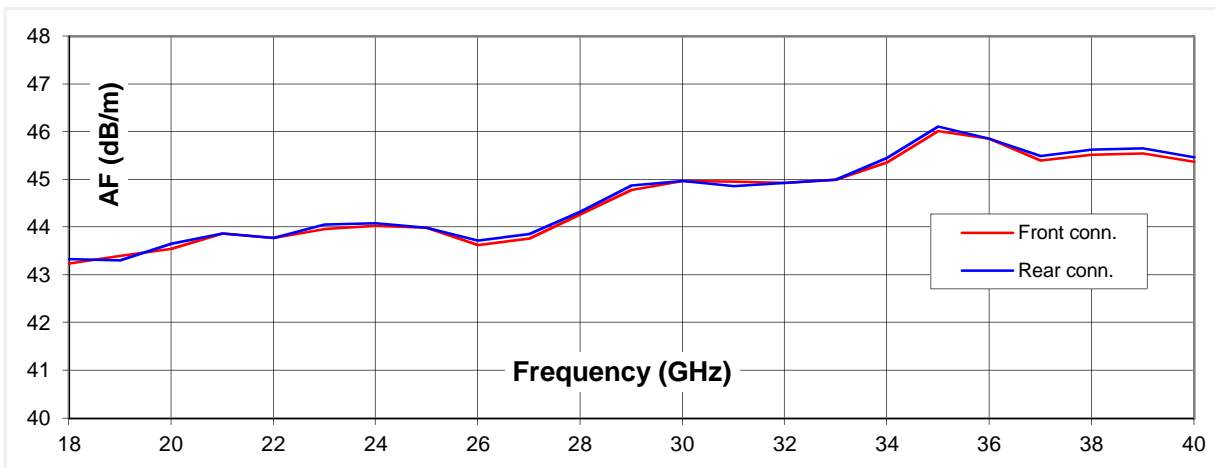
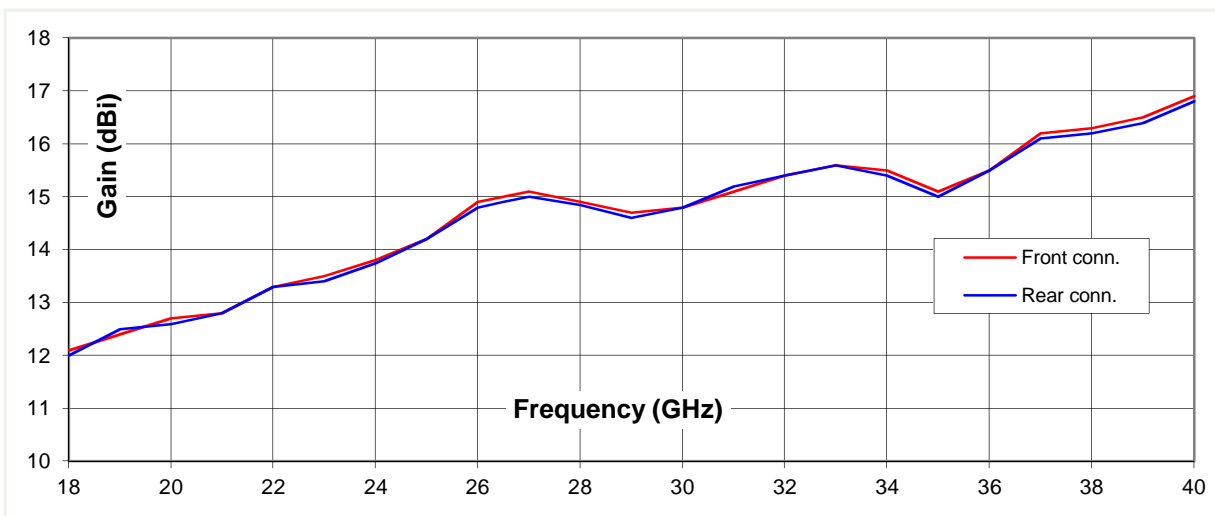
Test Report

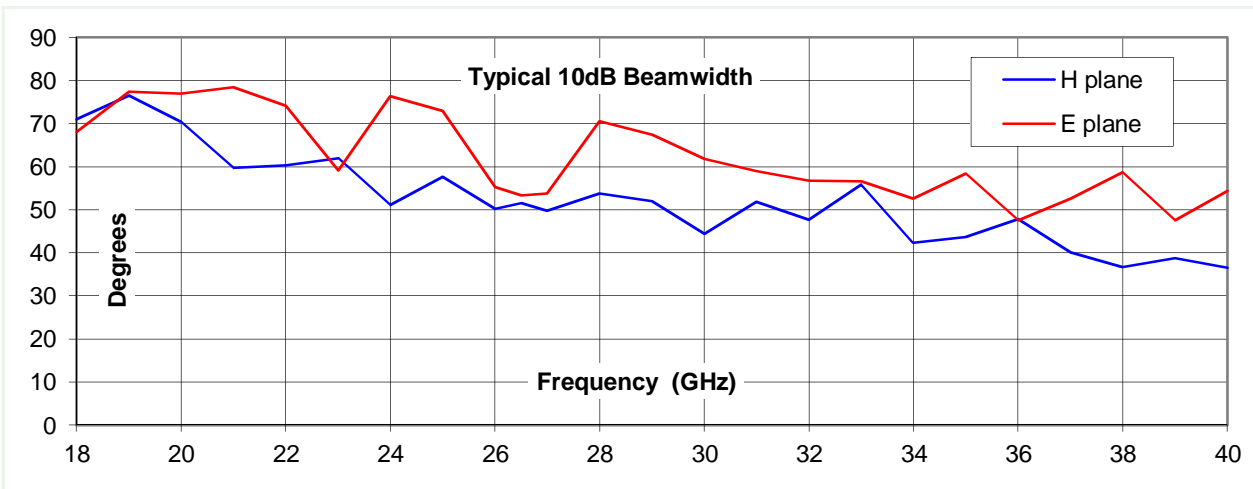
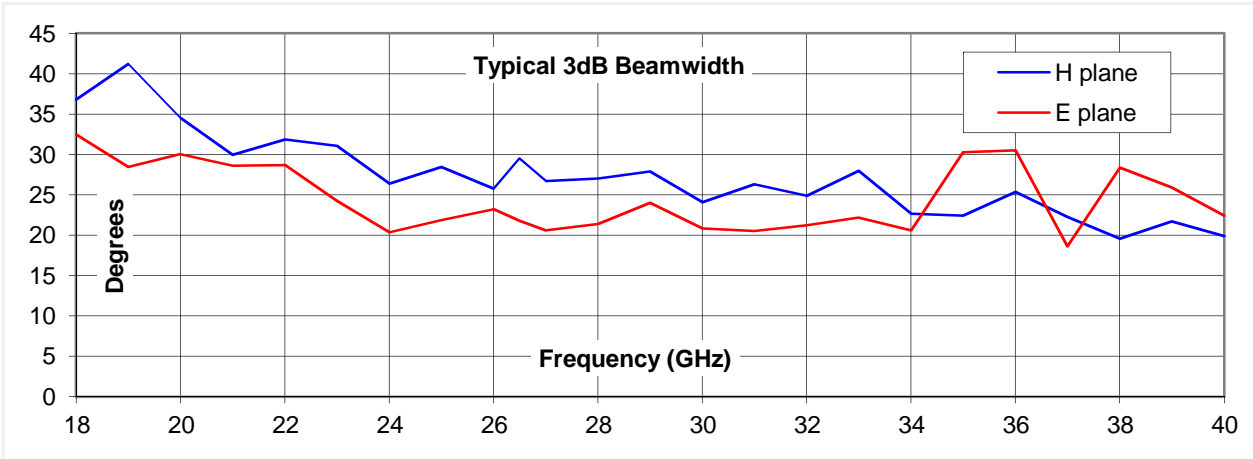
Typical Specification

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

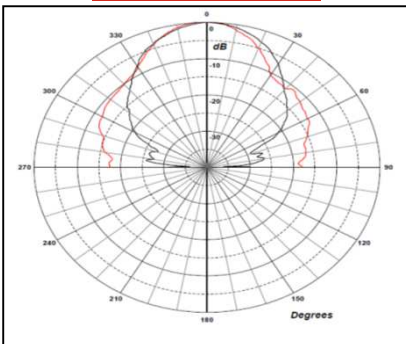
Typical Antenna Gain / Factor

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.

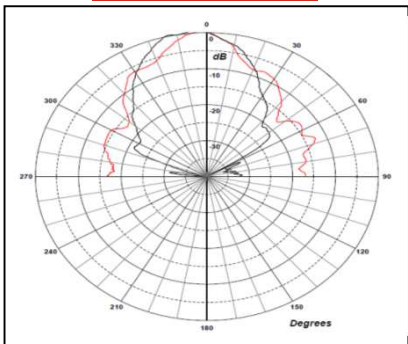




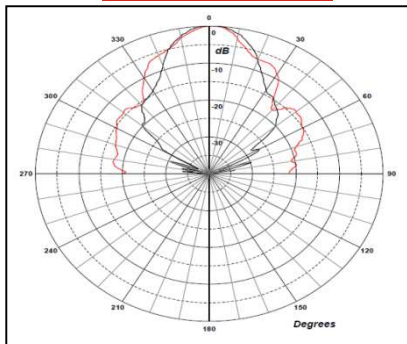
18 GHz



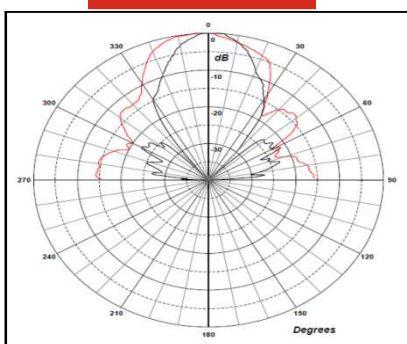
25 GHz



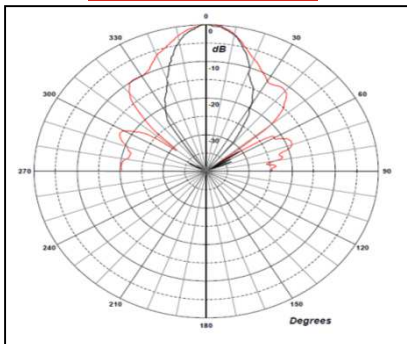
30 GHz



35 GHz



40 GHz



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