Wideband Horn Antenna

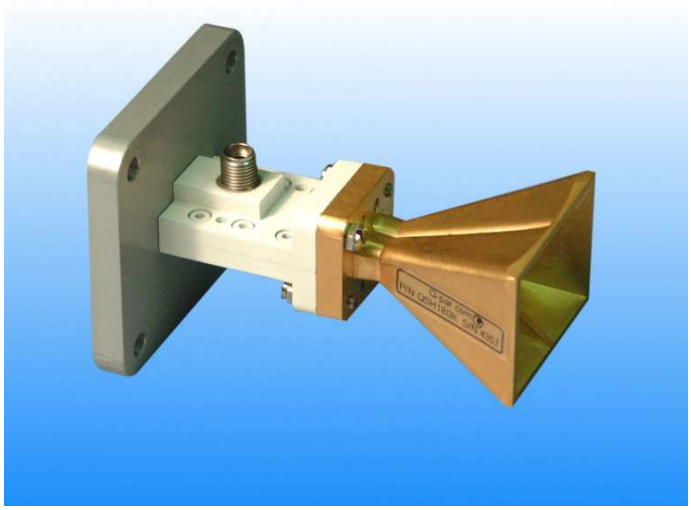
18 to 40 GHz

WRD180

Catalogue number: **QWH-SL-18-40-K-SG**

Q-par reference: **QMS-00361**

Contents:



Test Report

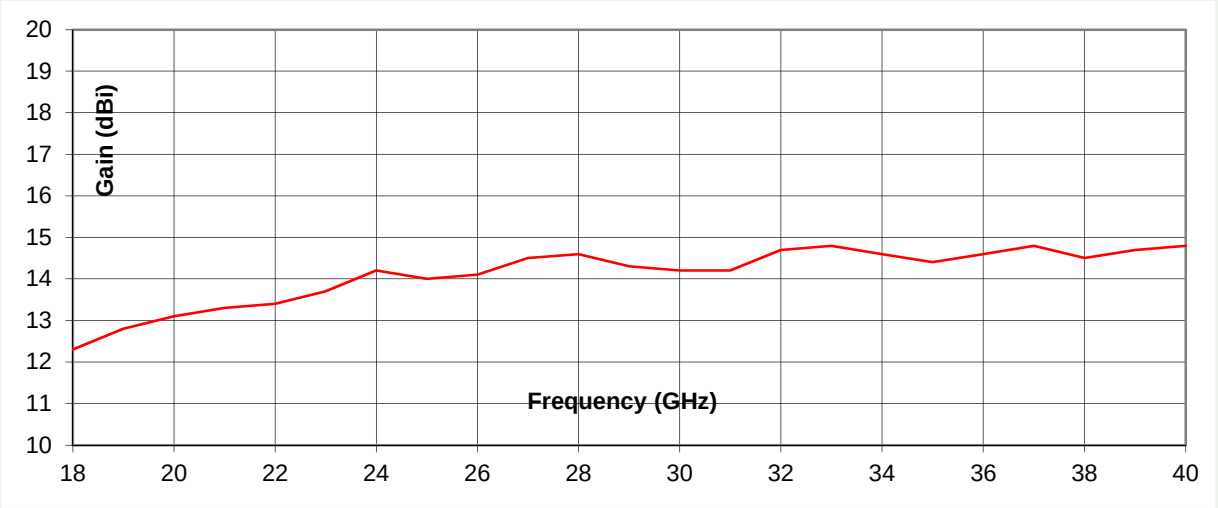
SD 06/02/2014 7066

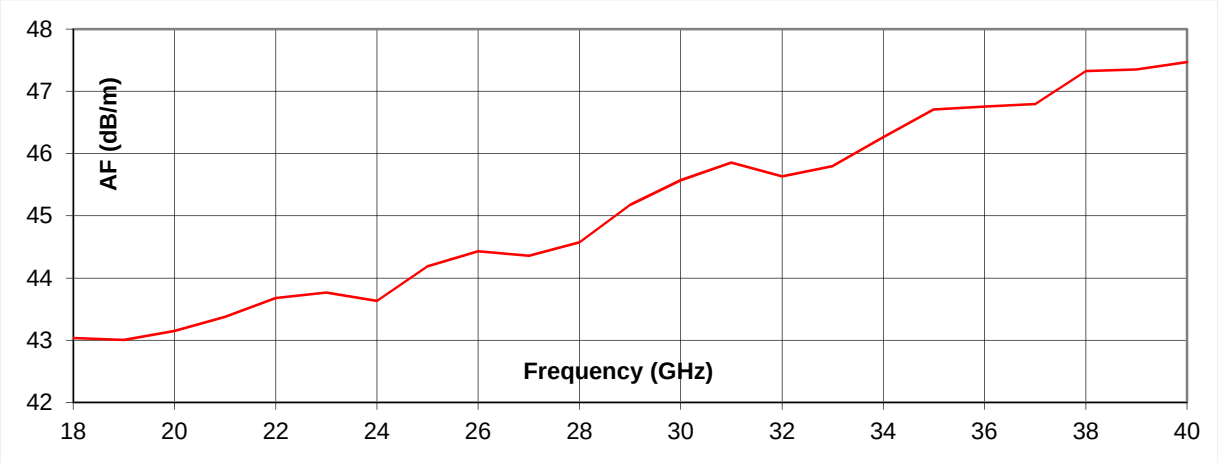
Typical Specification

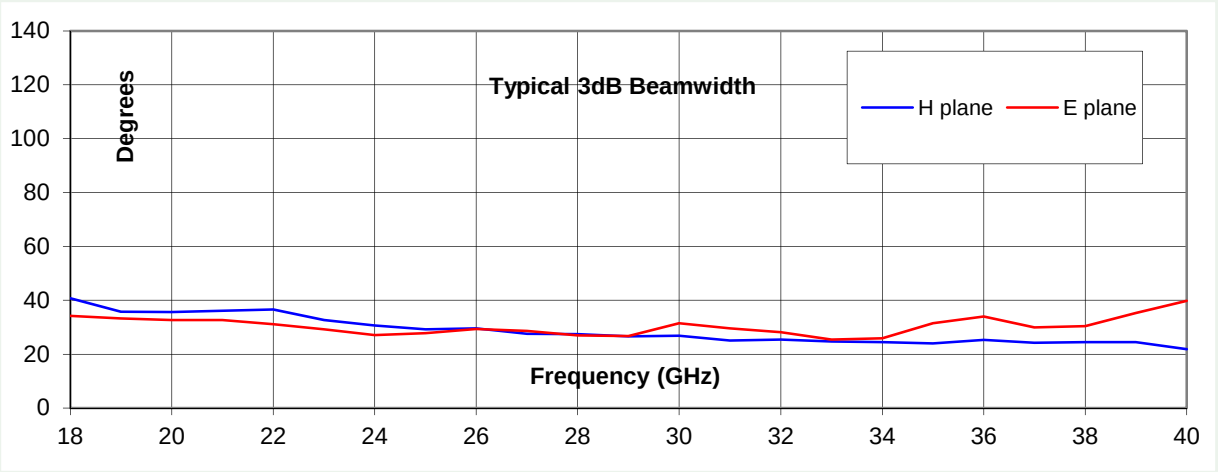
Frequency	18 to 40 GHz
Connector type	K type jack (2.9 mm)
Power Handling	20 Watt c.w.
VSWR	Typically < 1.7 :1
Gain	12.3 to 14.8 dBi
Antenna Factor	43 to 47.5 dB/m
3dB Beamwidth	22 to 41 degrees
10dB Beamwidth	46 to 113 degrees
Weight	140 g nominal
Size- max.	35 mm x 28 mm external aperture x 73 mm long
Mounting	Horn mount plate with 4 holes, diameter 4.1 mm, 38 x 38 mm centres
Construction	Electroformed copper horn, aluminium transition with anodised aluminium mounting plate

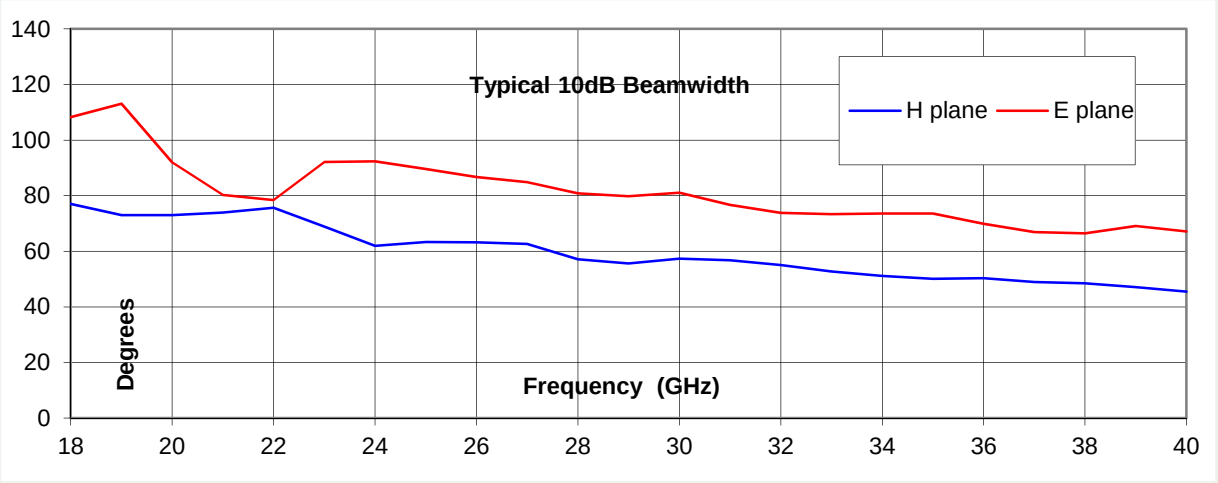
Typical Antenna Gain / Factor

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.

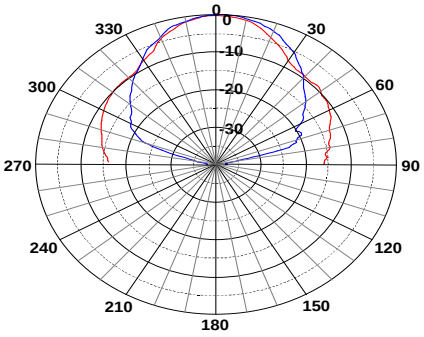




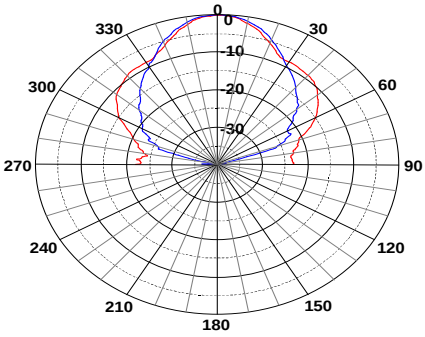




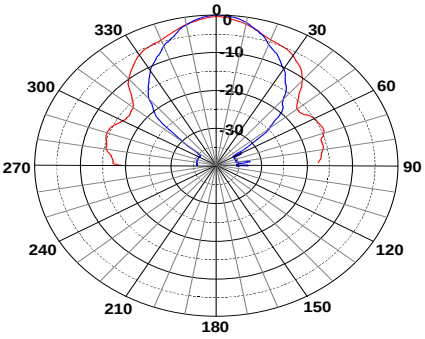
18 GHz



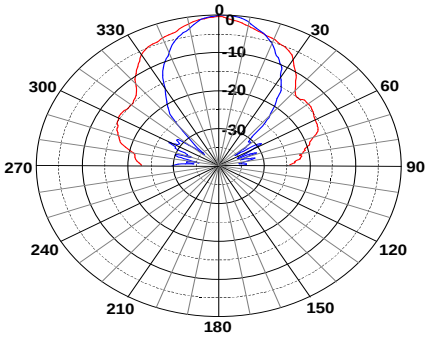
24 GHz



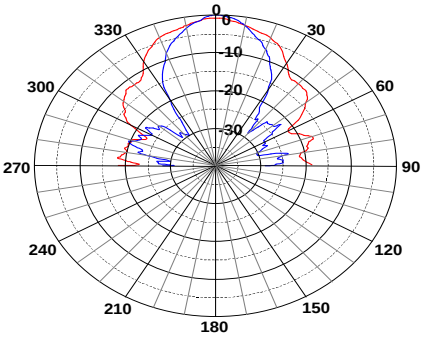
30 GHz



35 GHz



40 GHz



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