

0.6 m Aluminium Reflector & 18 - 40 GHz Wideband Feed fitted with a K type Connector and Radome

Catalogue number **QSR-600-A-228 & QWF-SL-18-40-K-R**

Steatite reference **QMS-00403**

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



QQD06-2 V7.3

PDM 21/03/2019 8534

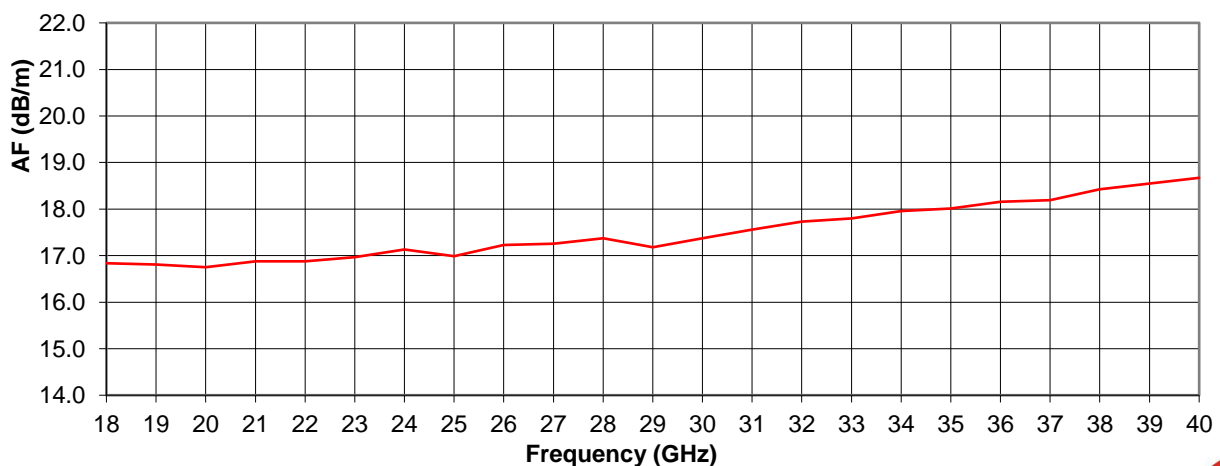
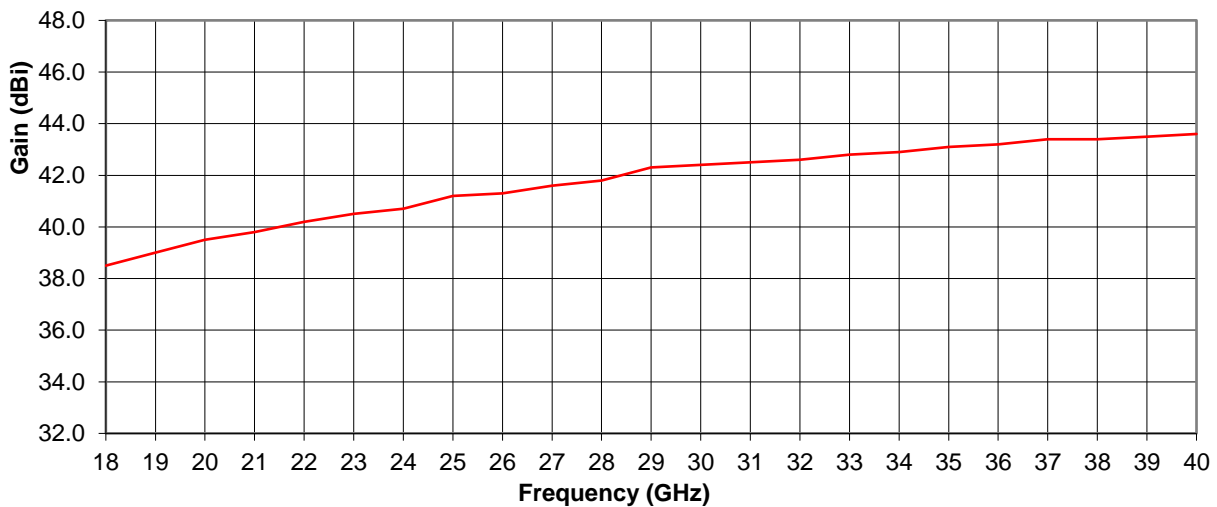


Typical Specification

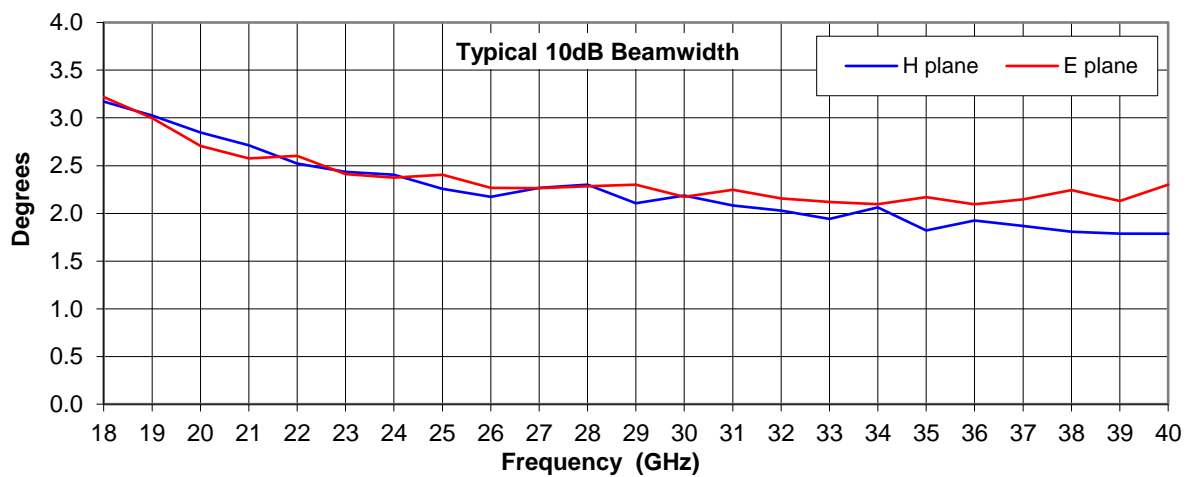
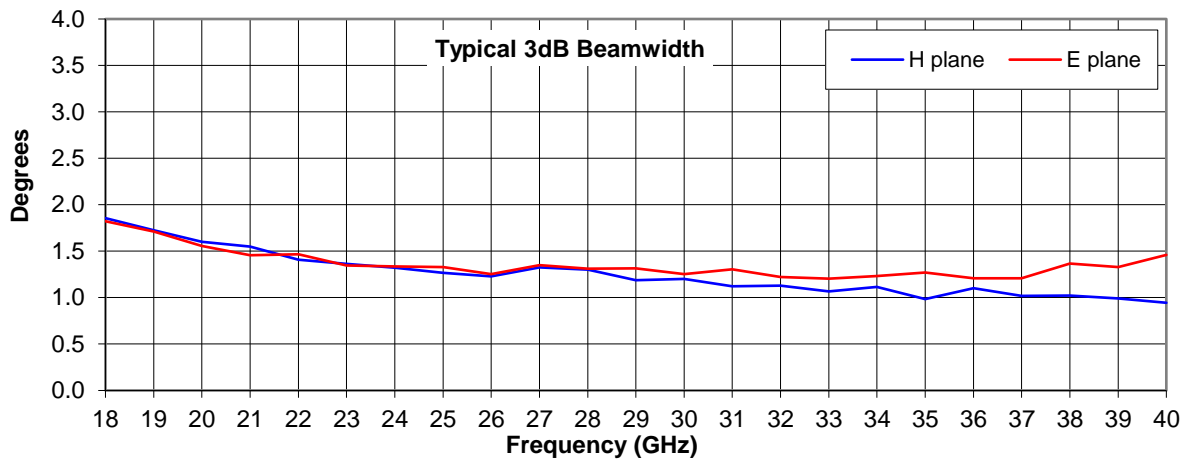
Frequency	18 to 40 GHz
Connector Type	K type jack (2.92 mm)
Power Handling	40 Watt c.w.
VSWR	Typically < 2.0:1
Gain	38.5 to 43.6 dBi
Antenna Factor	16.8 to 18.7 dB/m
3dB Beamwidth	0.9 to 1.9 degrees
10dB Beamwidth	1.8 to 3.2 degrees
Weight	4.2 kg nominal
Maximum Size	Reflector diameter 630 mm
Mounting	8 holes, tapped M6, 125 mm pitch circle diameter
Construction	Aluminium reflector, powdercoat finish. Electroformed copper and aluminium feed, painted. Plastic composite radome. Stainless steel fixings.

Typical Antenna Gain / Factor

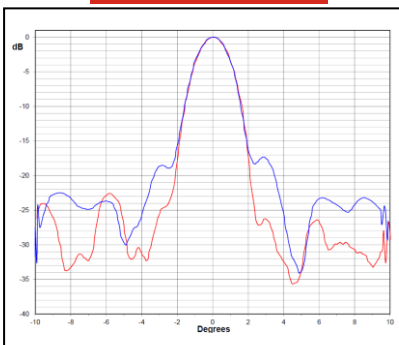
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



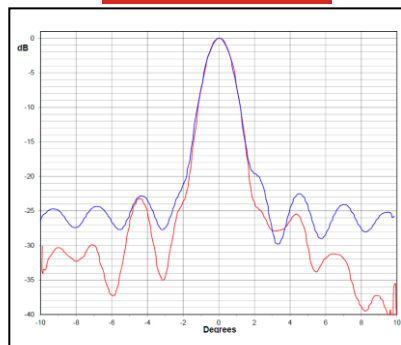
Typical Beamwidth / Radiation Patterns



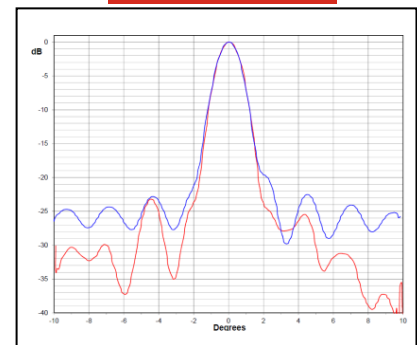
18 GHz



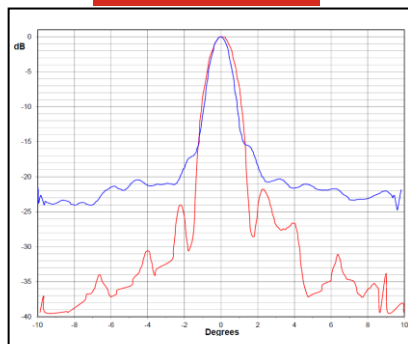
24 GHz



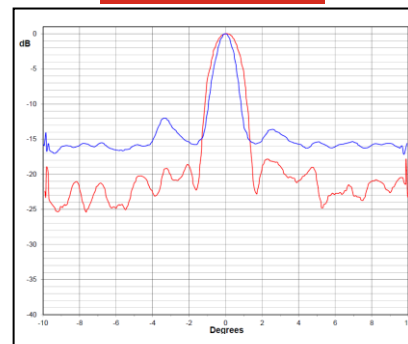
30 GHz



35 GHz



40 GHz



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

