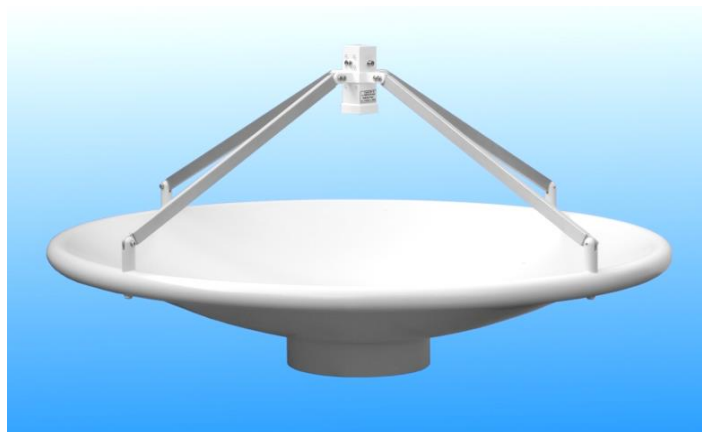


# 0.6 m Aluminium Reflector & 18 - 40 GHz Dual Linearly Polarised Wideband Reflector Feed fitted with K type Connectors and a Radome

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

Steatite reference **QMS-00637**

Contents **Summary**  
**Typical Gain / Antenna Factor**  
**Typical Beamwidth / Patterns**  
**VSWR / Port-to-Port Isolation**

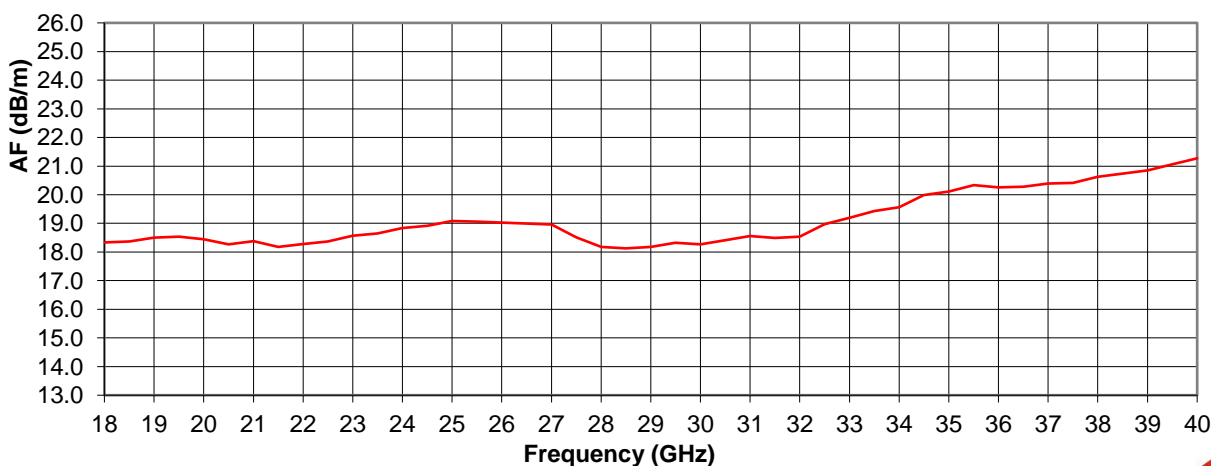
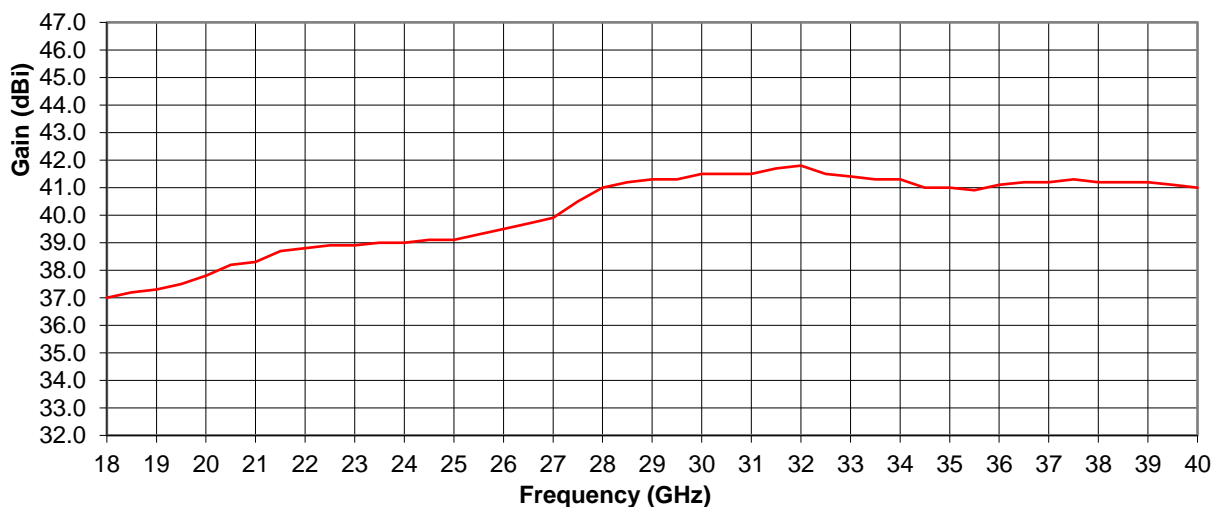


## Typical Specification

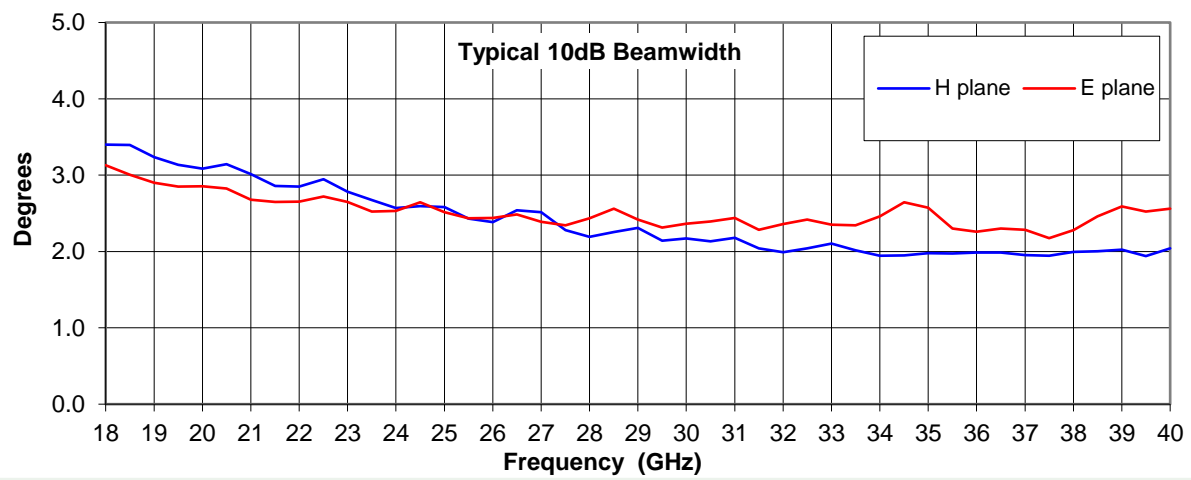
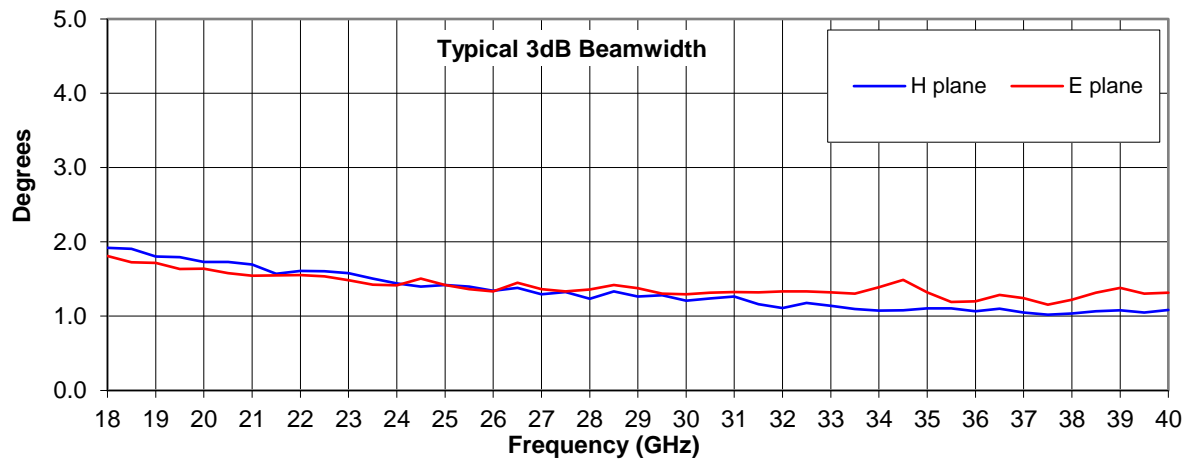
<b>Frequency</b>	18 to 40 GHz
<b>Connector Type</b>	K type jack (2.92 mm)
<b>Power Handling</b>	40 W c.w.
<b>VSWR</b>	Typically < 2.6 : 1
<b>Isolation</b>	Typically >22dB
<b>Gain</b>	37 to 41.8 dBi
<b>Antenna Factor</b>	18.1 to 21.3 dB/m
<b>3dB Beamwidth</b>	1 to 2 degrees
<b>10dB Beamwidth</b>	2 to 3 degrees
<b>Weight</b>	4.6 kg
<b>Maximum Size</b>	Reflector diameter 640 mm
<b>Mounting</b>	Eight holes tapped M6 on 125 mm pitch circle diameter
<b>Construction</b>	Aluminium alloy, stainless steel and engineering plastics.

## Typical Antenna Gain / Factor

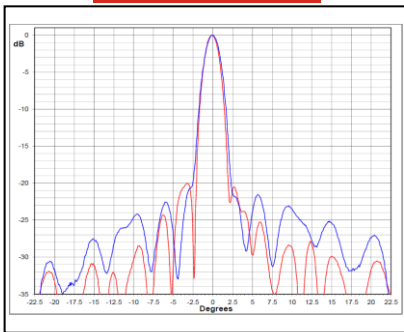
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



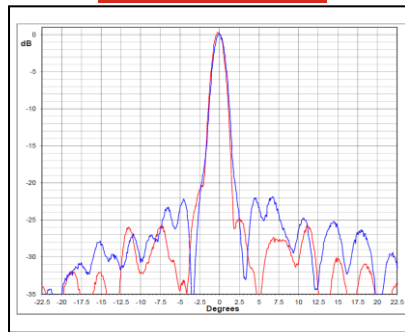
## Typical Beamwidth / Radiation Patterns



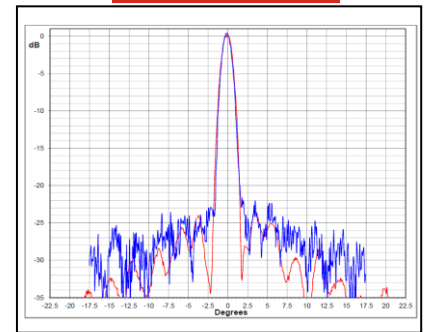
18 GHz



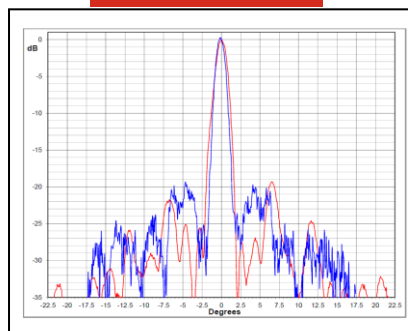
25 GHz



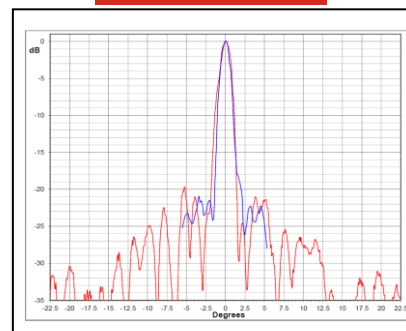
30 GHz



35 GHz



40 GHz



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

