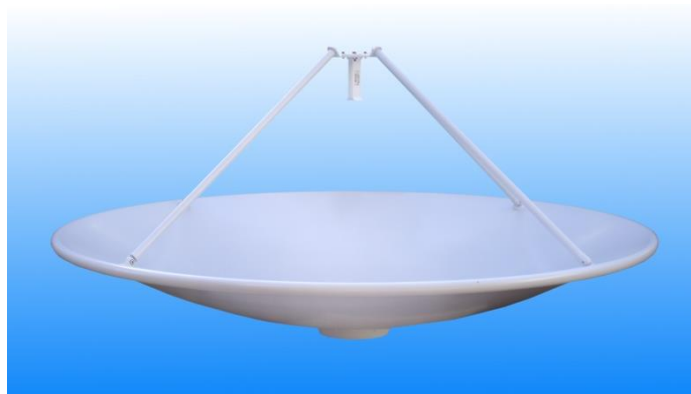


# 0.9 m Aluminium Reflector & 8 - 12 GHz Wideband Feed fitted with an N type Connector and Radome

Catalogue number **QSR-900-A-337 & QSF-SL-8-12-N-R**

Steatite reference **QMS-01128**

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

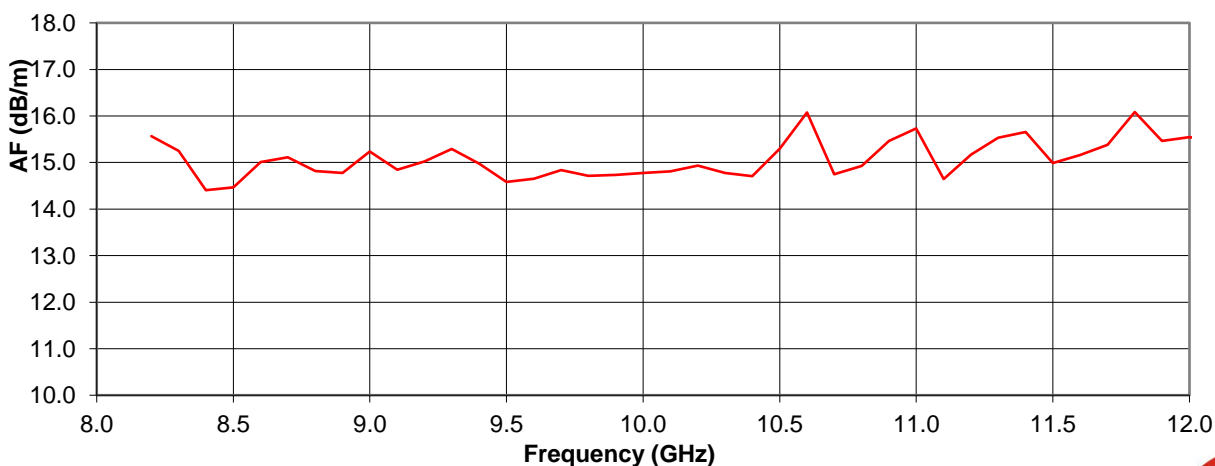
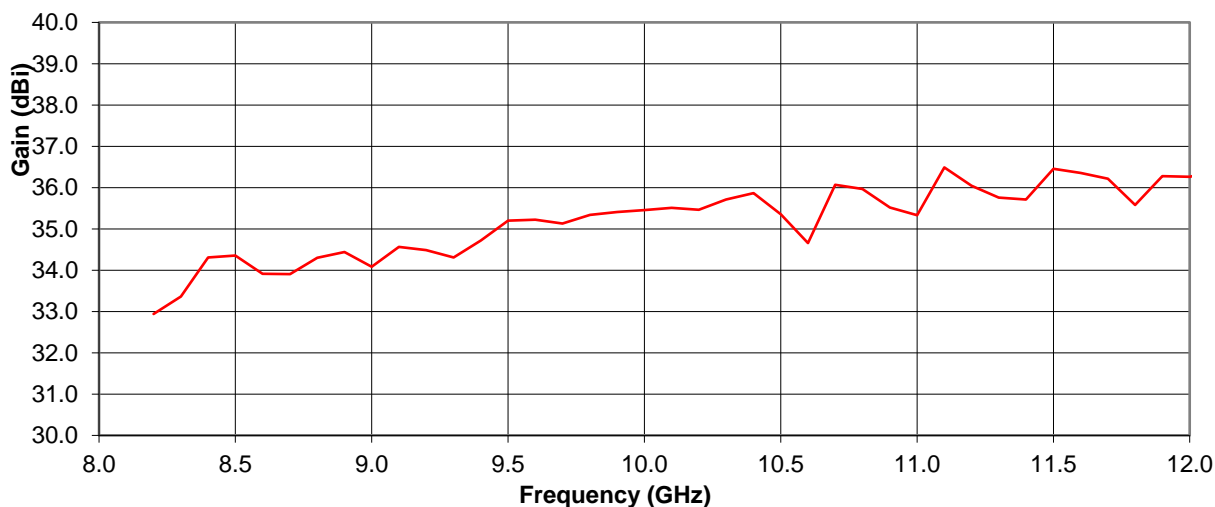


## Typical Specification

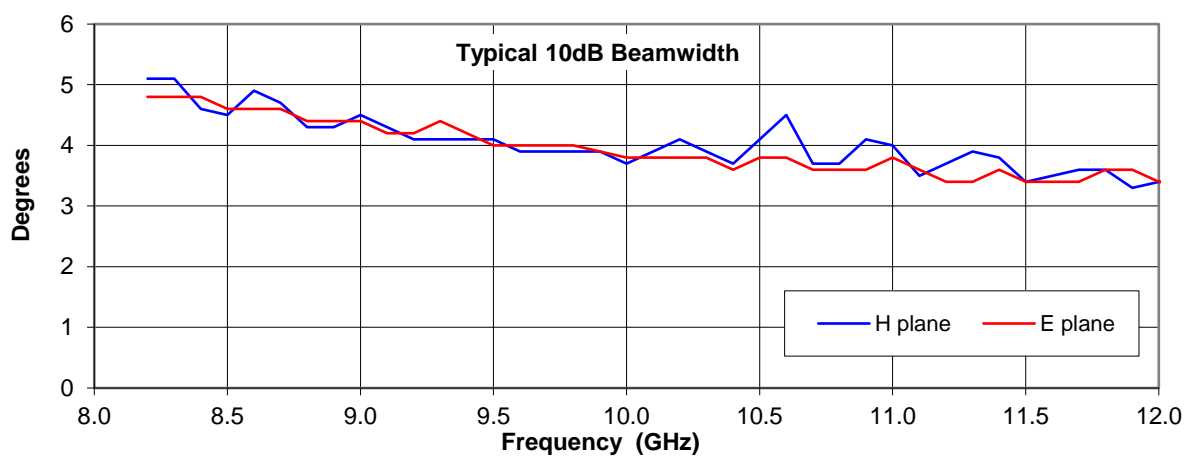
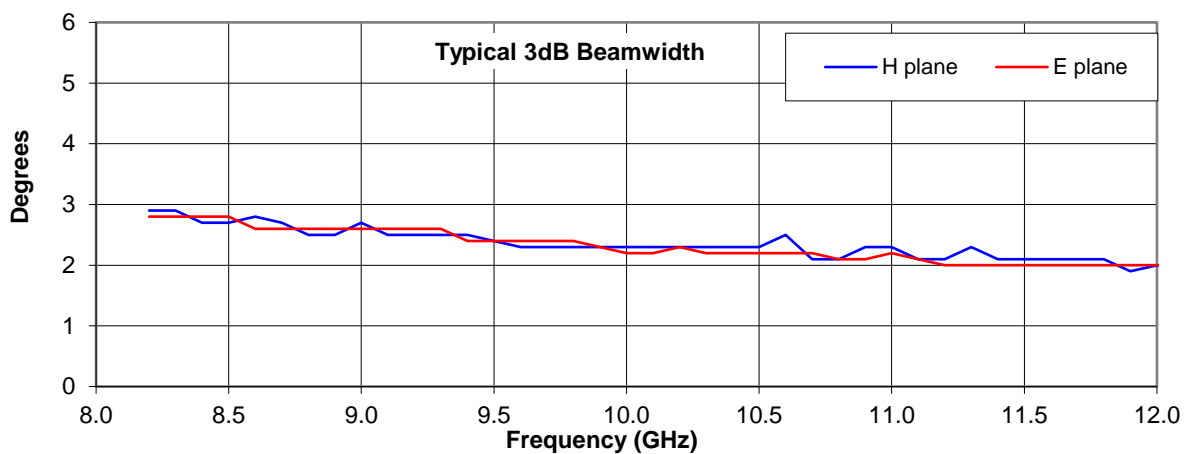
<b>Frequency</b>	8 to 12 GHz
<b>Connector Type</b>	Waveguide 16 Flange -UDR100 ( R100 , WR90)
<b>Power Handling</b>	2 kW c.w.
<b>VSWR</b>	Typically < 1.5:1
<b>Gain</b>	32.9 to 36.5 dBi
<b>Antenna Factor</b>	14.4 to 16.1 dB/m
<b>3dB Beamwidth</b>	1.9 to 2.9 degrees
<b>10dB Beamwidth</b>	3.3 to 5.1 degrees
<b>Weight</b>	10 Kg nominal
<b>Maximum Size</b>	Reflector Diameter 940 mm
<b>Mounting</b>	8 holes tapped M6 on a 125 mm pcd (See ICD for more details)
<b>Construction</b>	Aluminium reflector with powdercoat finish. Copper and brass feed, painted.

## Typical Antenna Gain / Factor

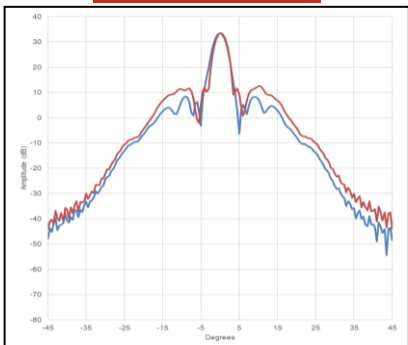
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



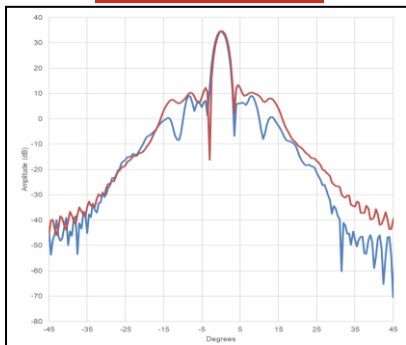
## Typical Beamwidth / Radiation Patterns



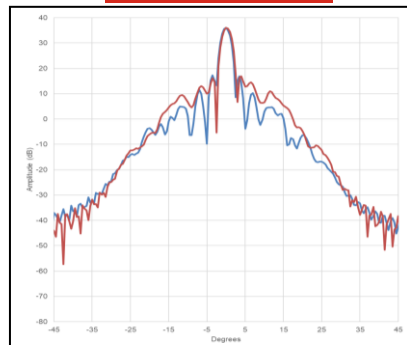
**8 GHz**



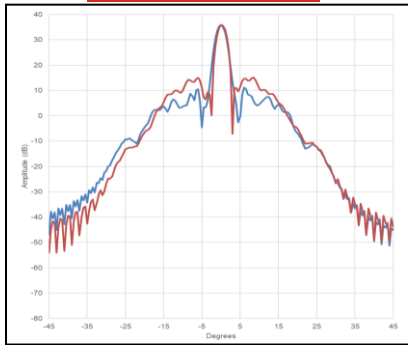
**9 GHz**



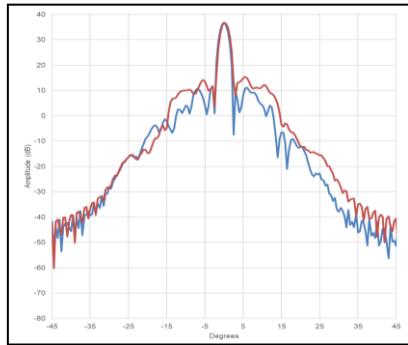
**10 GHz**



**11 GHz**



**12 GHz**



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

