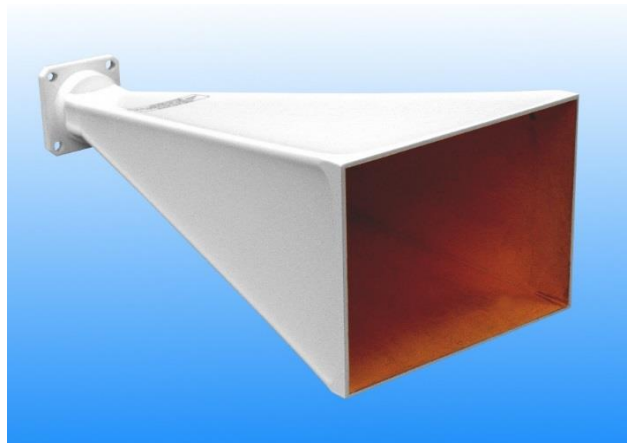


## 8 - 12 GHz Linearly Polarised 20 dBi Horn Antenna fitted with a Waveguide Flange

Catalogue number **QSH-SL-8-12-F-20**

Steatite reference **QMS-00172**

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

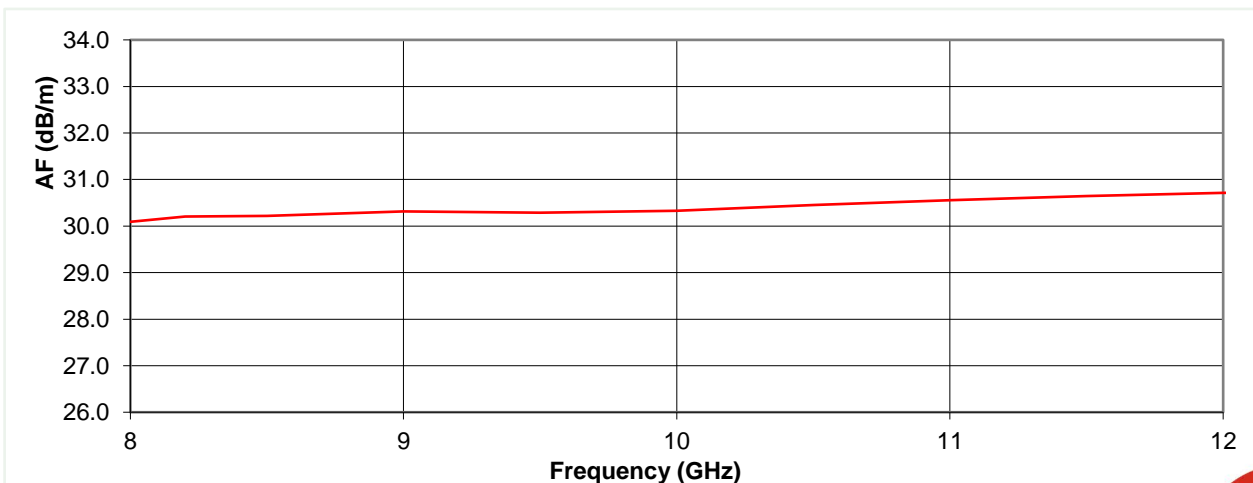
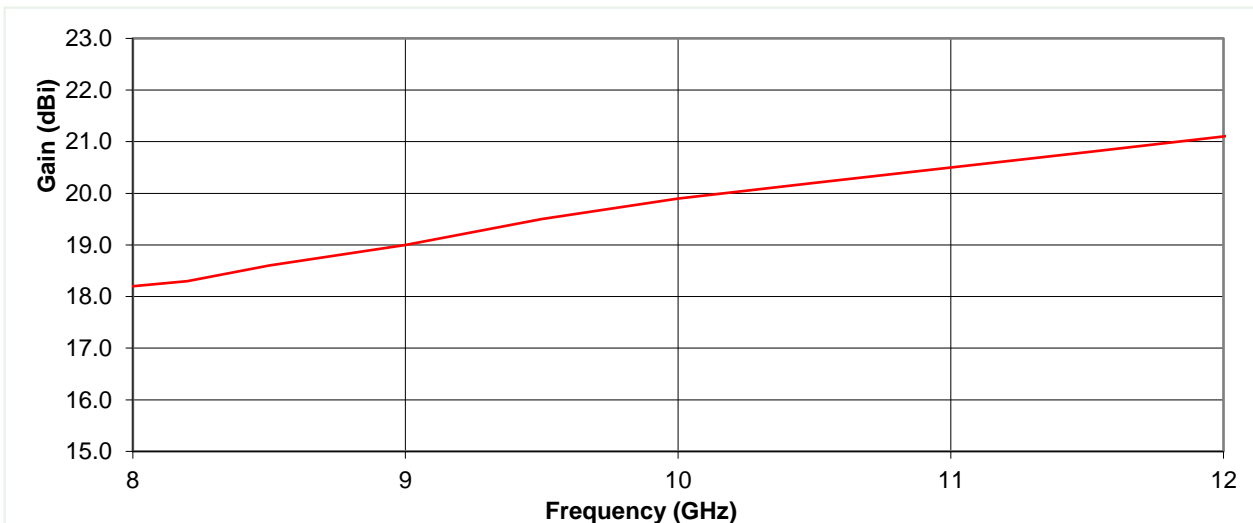


## Typical Specification

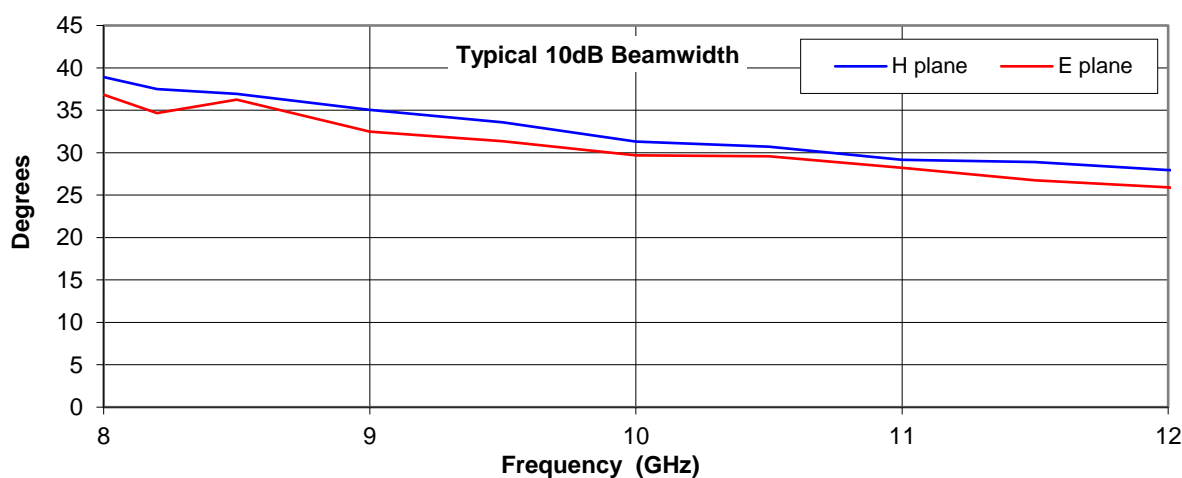
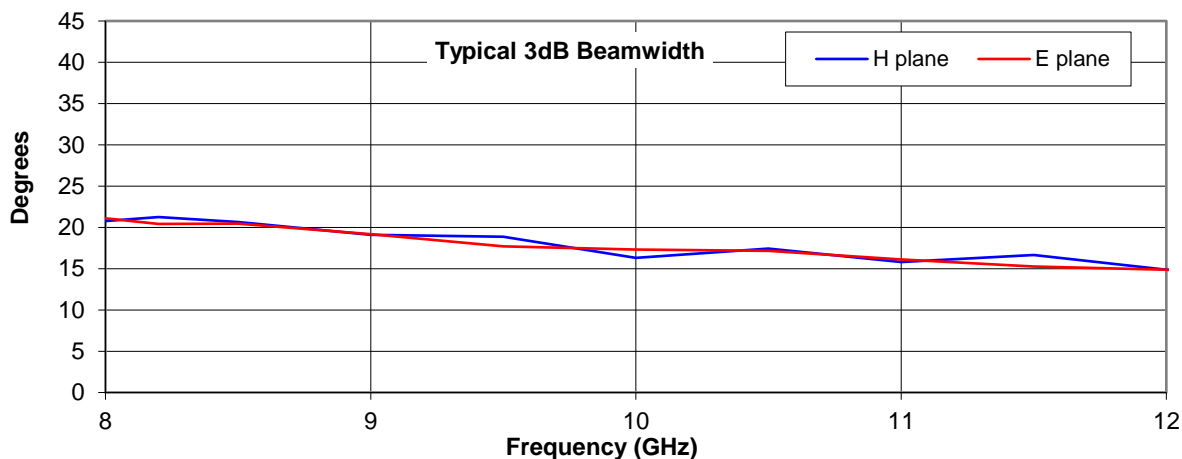
<b>Frequency</b>	8.2 to 12.4 GHz
<b>Connector Type</b>	WG16 WR90 Flange
<b>Power Handling</b>	760 kW peak, 2.4 kW mean
<b>VSWR</b>	< 1.2 :1
<b>Gain</b>	18.3 to 21.4 dBi
<b>Antenna Factor</b>	30.2 to 30.7 dB/m
<b>3dB Beamwidth</b>	15 to 21 degrees
<b>10dB Beamwidth</b>	25 to 38 degrees
<b>Weight</b>	1 kg nominal
<b>Maximum Size</b>	116 x 86 mm external aperture x 263 mm long
<b>Mounting</b>	WG16 / WR90 Waveguide flange UBR100
<b>Construction</b>	Electroformed copper, painted.

## Typical Antenna Gain / Factor

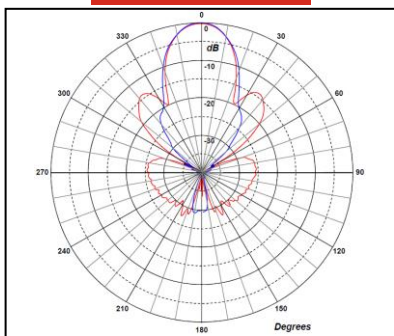
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



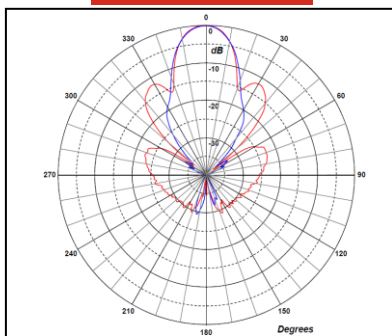
## Typical Beamwidth / Radiation Patterns



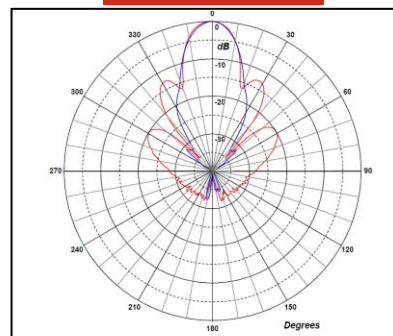
8 GHz



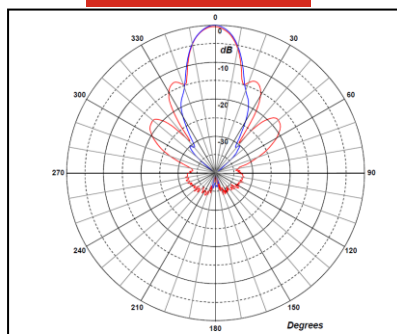
9 GHz



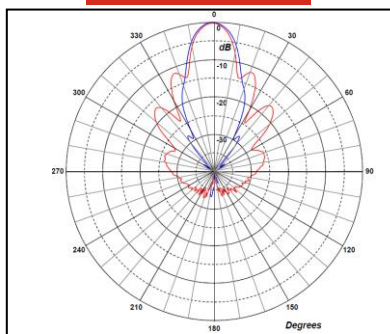
10 GHz



11 GHz



12.5 GHz



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

