

# 18 - 26 GHz Linearly Polarised 20 dBi Horn Antenna fitted with a WG20 / WR42 Flange

Catalogue number **QSH-SL-18-26-F-20**

Steatite reference **QMS-00221**

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



QQD06-2 V7.3

PDM 13/11/2018 9207

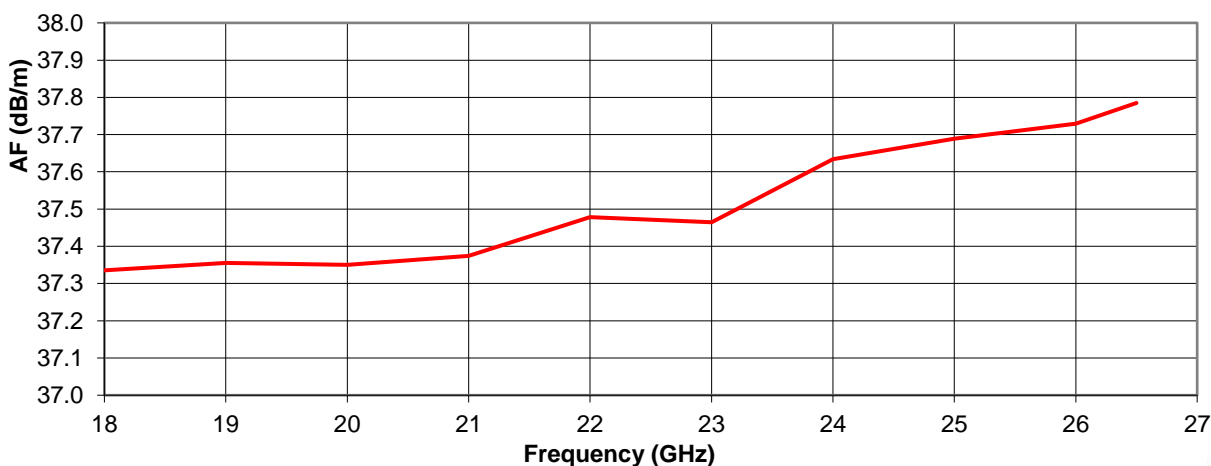
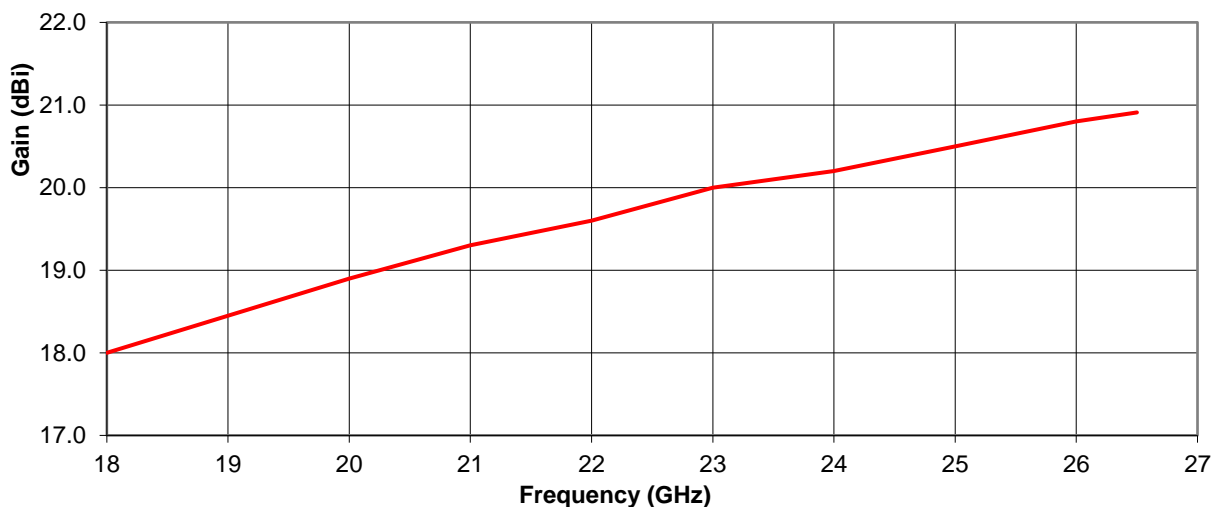


## Typical Specification

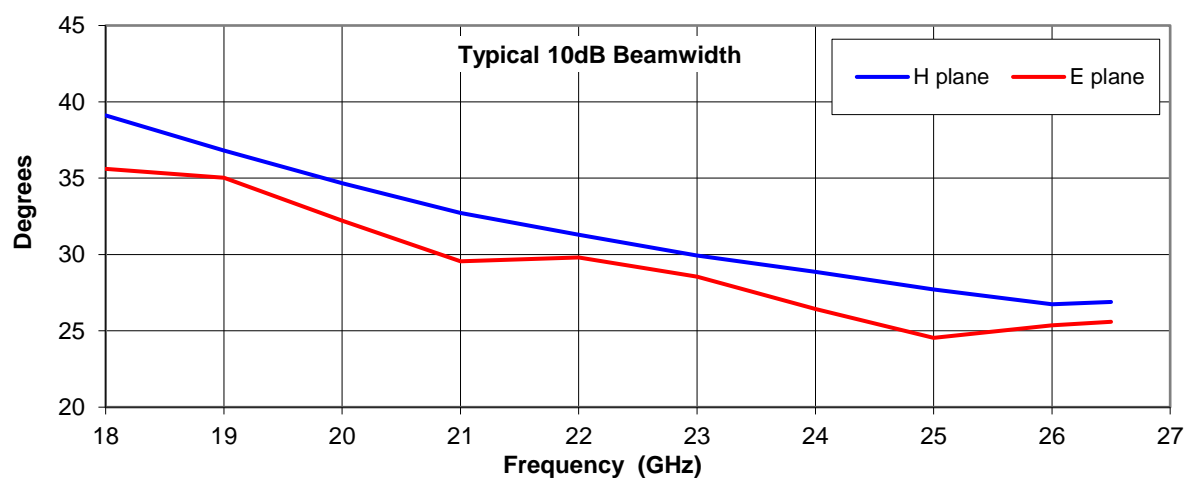
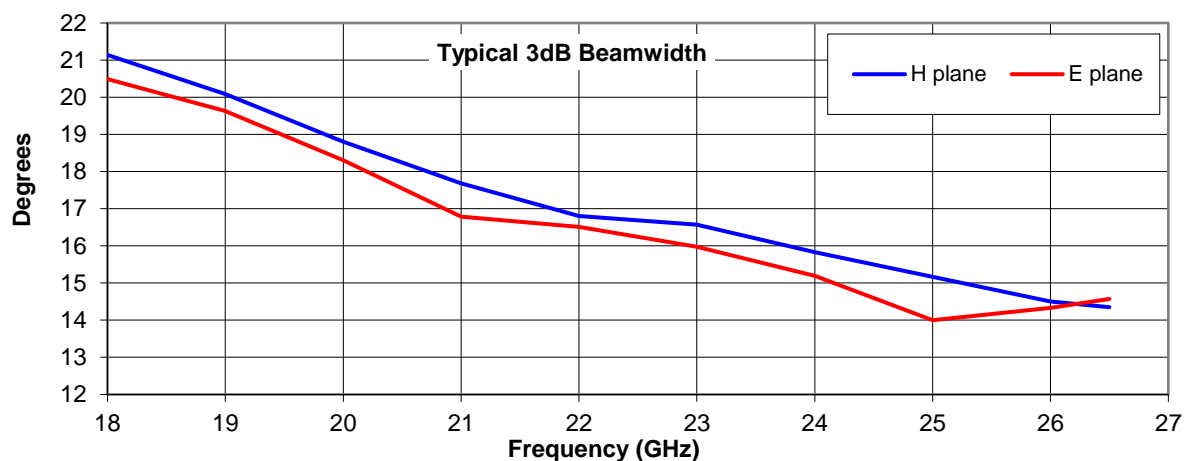
<b>Frequency</b>	18 to 26.5 GHz
<b>Connector Type</b>	UBR220 waveguide flange
<b>Power Handling</b>	800 Watt c.w.
<b>VSWR</b>	Typically < 1.2:1
<b>Gain</b>	18 to 20.9 dBi
<b>Antenna Factor</b>	37.3 to 37.8 dB/m
<b>3dB Beamwidth</b>	14 to 21 degrees
<b>10dB Beamwidth</b>	25 to 39 degrees
<b>Weight</b>	180 g nominal
<b>Maximum Size</b>	53 mm x 40 mm external aperture x 122 mm long nominal
<b>Mounting</b>	UBR220 waveguide flange
<b>Construction</b>	Electroformed copper with soldered brass flange, gold plated.

## Typical Antenna Gain / Factor

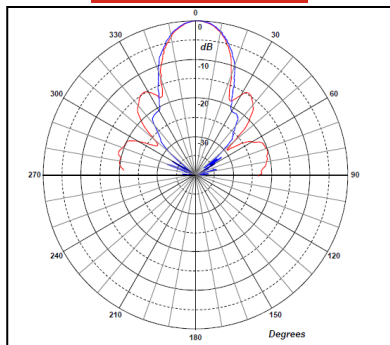
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



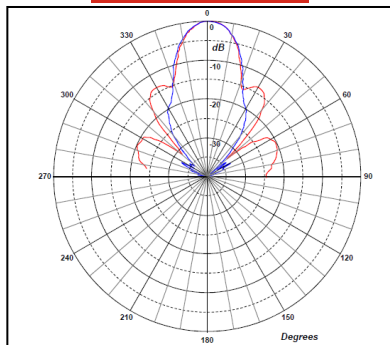
## Typical Beamwidth / Radiation Patterns



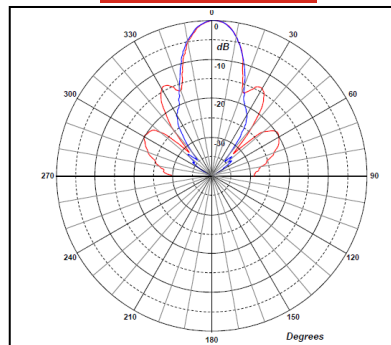
18 GHz



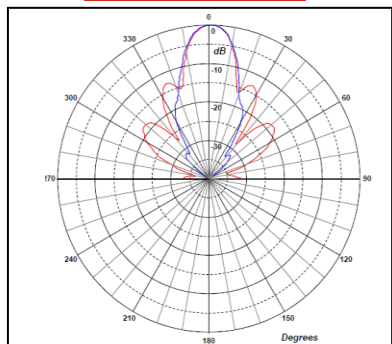
20 GHz



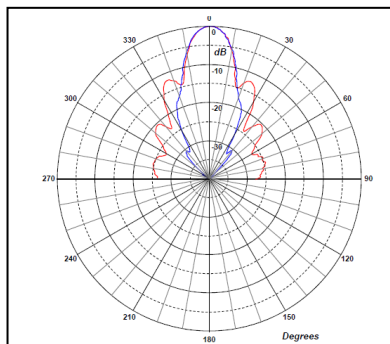
22 GHz



24 GHz



26.5 GHz



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

