



## Standard Gain Horn Antenna

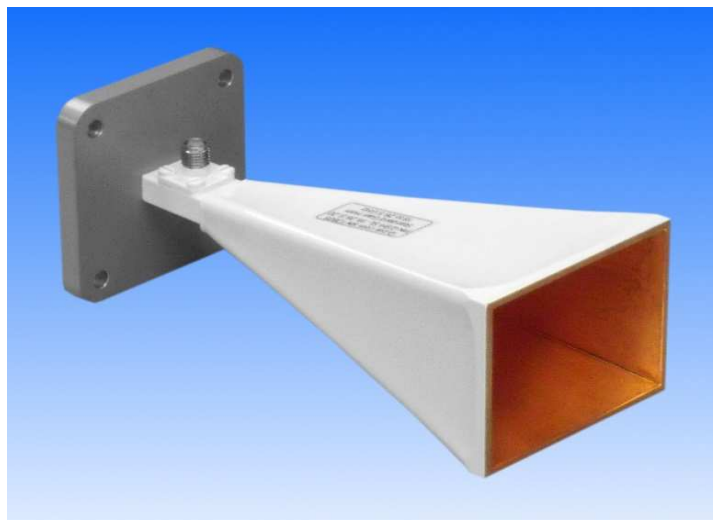
**18 to 26.5 GHz**

**WG20 R220 WR42**

Catalogue number: **QSH-SL-18-26-S-20-R**

Q-par reference: **QMS-00226**

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

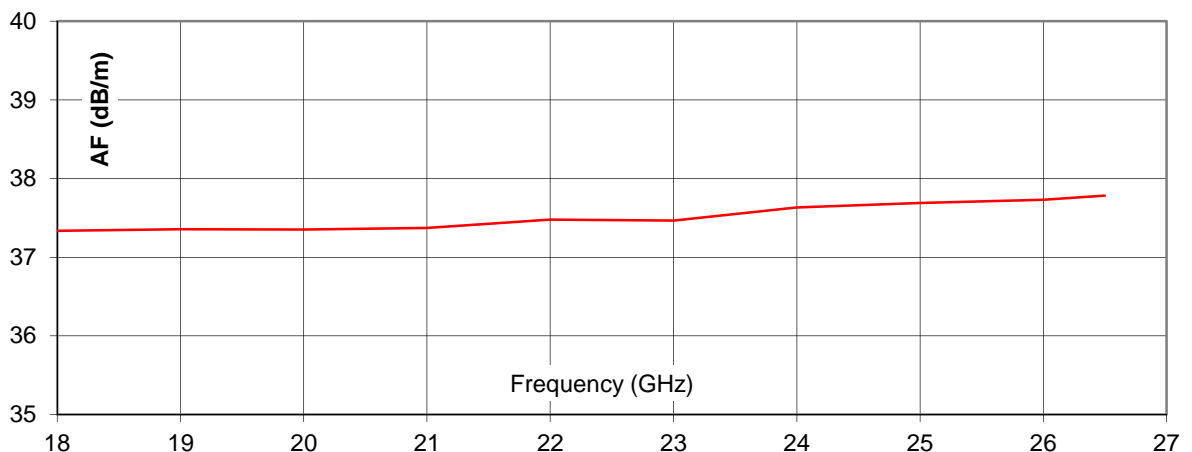
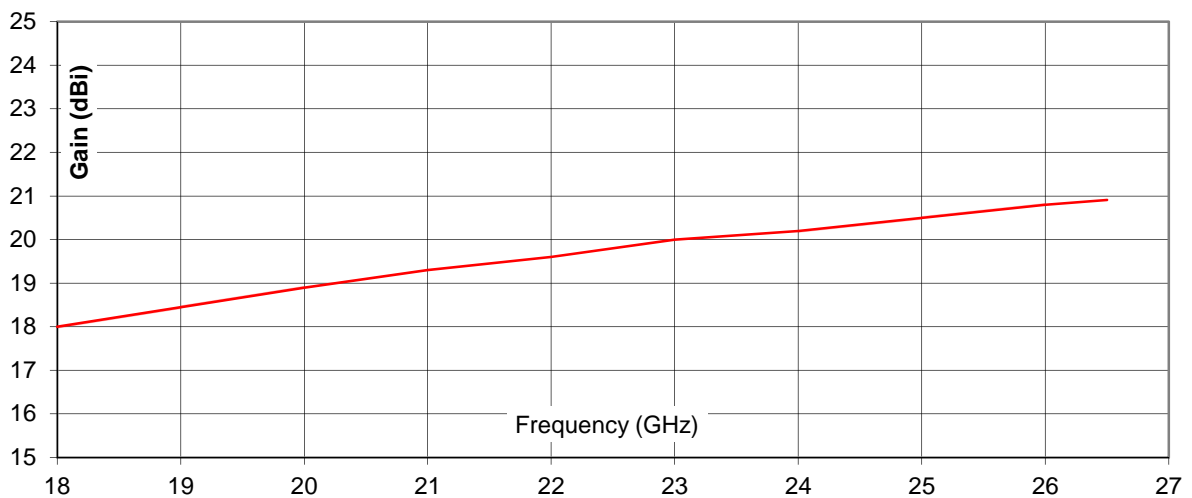


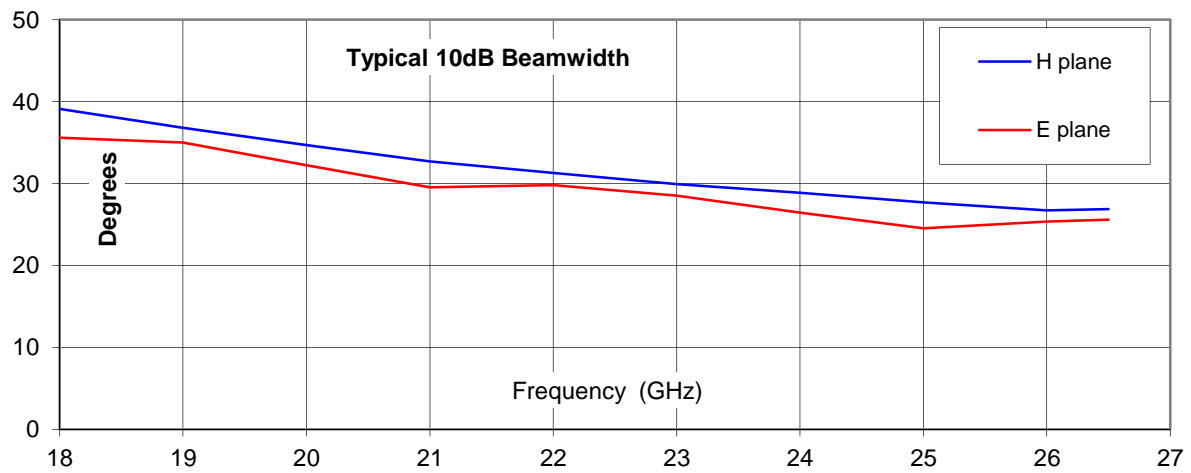
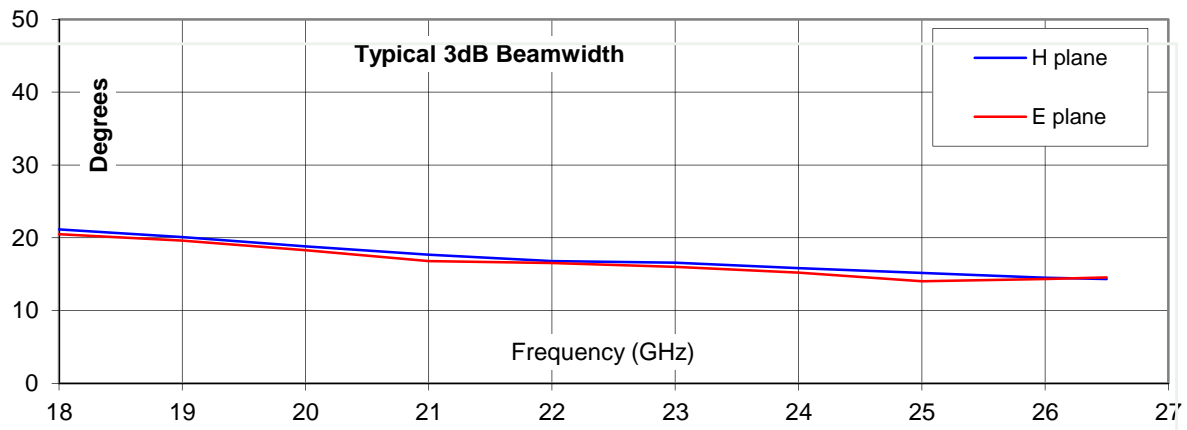
## Typical Specification

<b>Frequency</b>	18 to 26.5 GHz
<b>Connector type</b>	SMA type jack (27 GHz version)
<b>Power Handling</b>	20 Watt c.w.
<b>VSWR</b>	Typically < 1.4:1
<b>Gain</b>	18 to 20.9 dBi
<b>Antenna Factor</b>	37.3 to 37.7 dB/m
<b>3dB Beamwidth</b>	14 to 21 degrees
<b>10dB Beamwidth</b>	25 to 39 degrees
<b>Weight</b>	280 g nominal
<b>Size- max.</b>	55 mm x 42 mm external aperture x 125 mm long
<b>Mounting</b>	Mounting Plate 50 mm x 50 mm with 4 holes, diameter 4.1 mm, 38 mm centres
<b>Construction</b>	Electroformed copper, painted, with anodised aluminium mounting plate

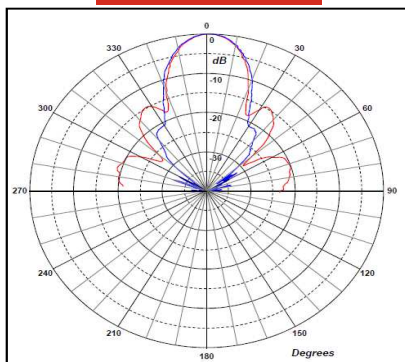
## Typical Antenna Gain / Factor

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.

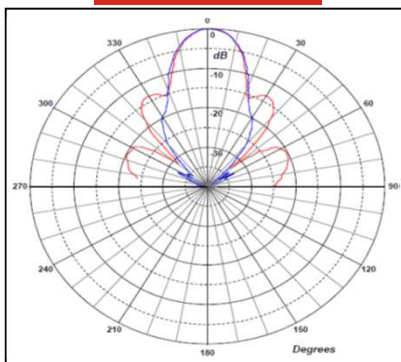




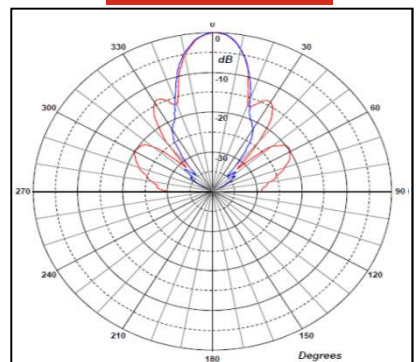
**18 GHz**



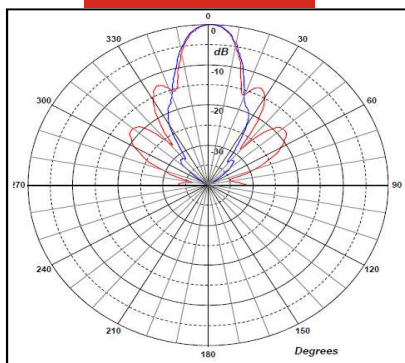
**20 GHz**



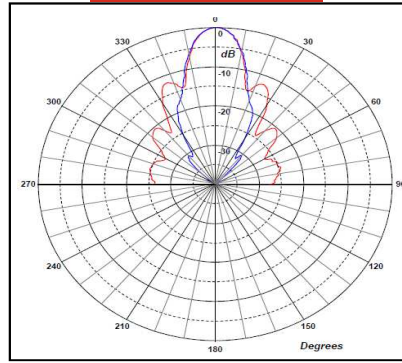
**22 GHz**



**24 GHz**



**26.5 GHz**



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

