



## Standard Gain Horn Antenna

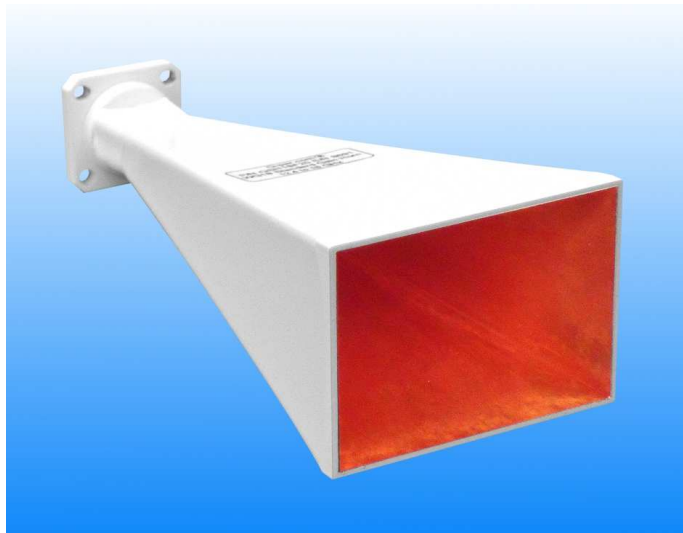
**12.4 to 18 GHz**

**WG18 WR62 R140**

Catalogue number: **QSH-SL-12-18-F-20**

Q-par reference: **QMS-00200**

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

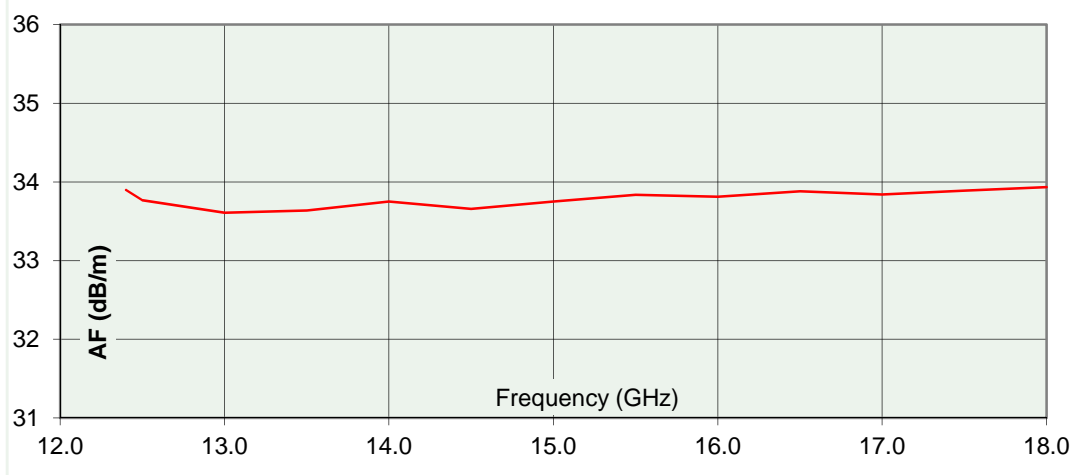
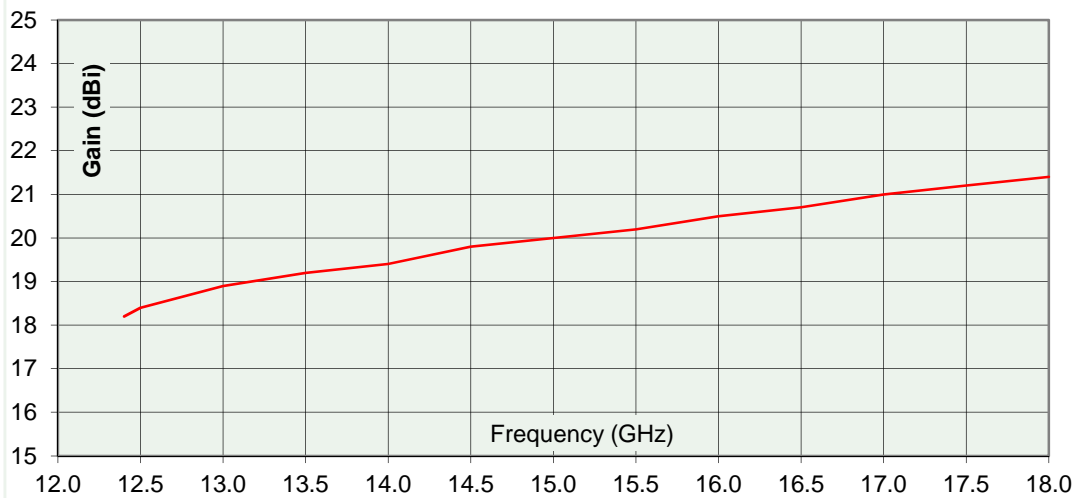


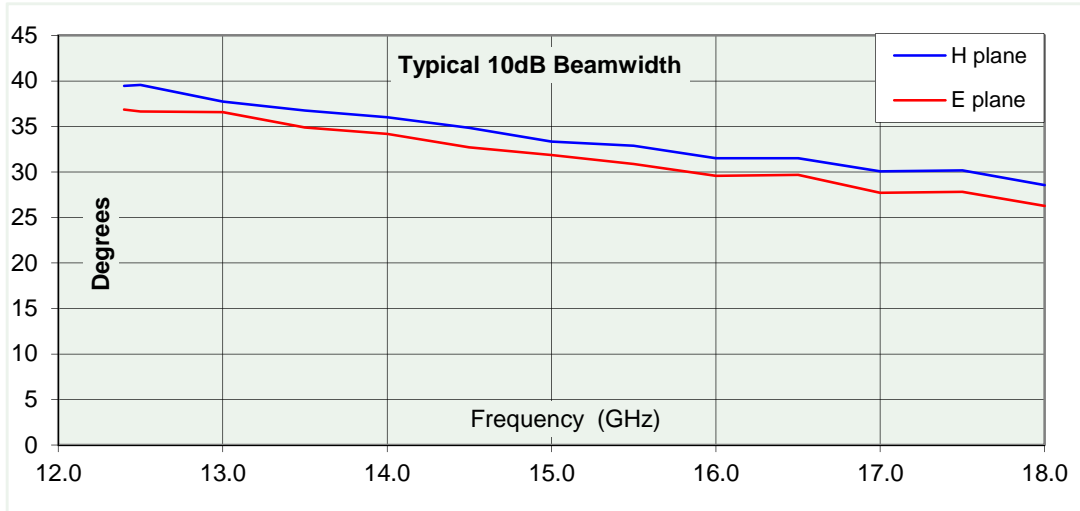
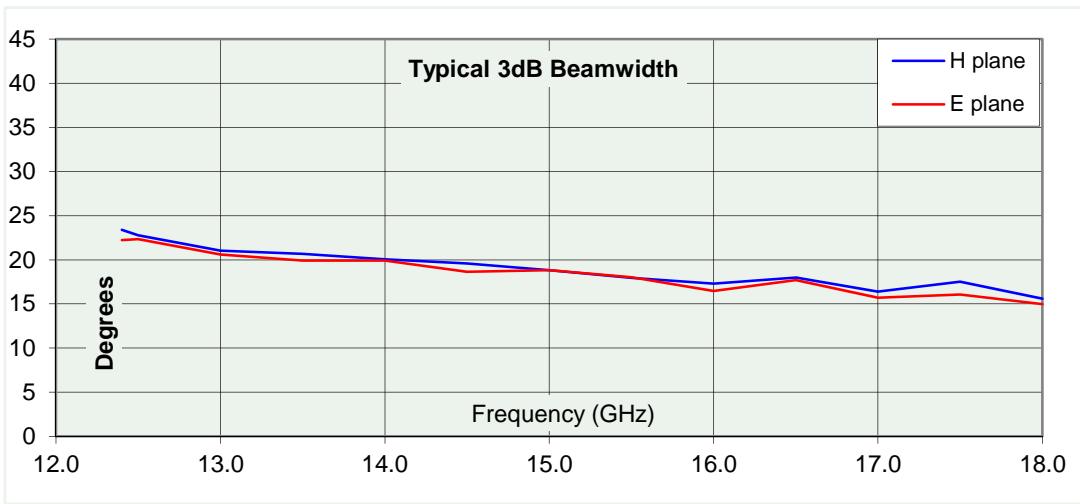
## Typical Specification

Frequency	12.4 to 18 GHz
Connector type	Waveguide flange, UBR140
Power Handling	1.4 kW c.w.
VSWR	Typically < 1.15:1
Gain	18.2 to 21.4 dBi
Antenna Factor	32.9 to 34.1 dB/m
3dB Beamwidth	15 to 23 degrees
10dB Beamwidth	26 to 40 degrees
Weight	490 g nominal
Size- max.	77 x 58 mm aperture x 178 mm long
Mounting	Waveguide flange, UBR140
Construction	Electroformed copper, painted.

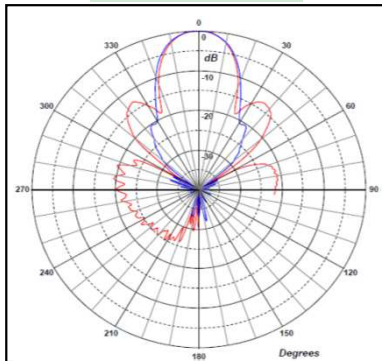
## Typical Antenna Gain / Factor

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.

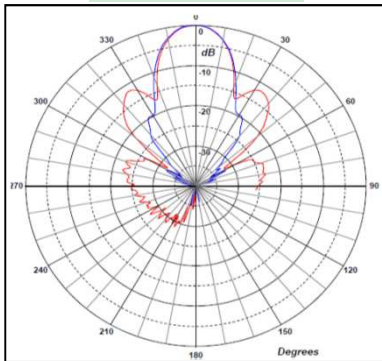




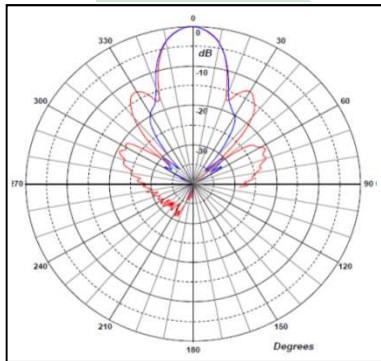
12.4 GHz



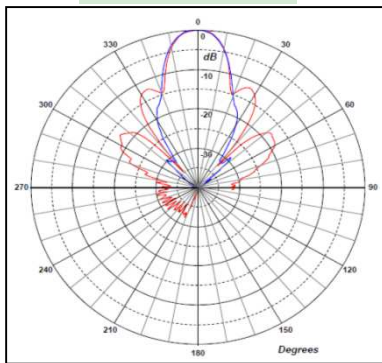
13.5 GHz



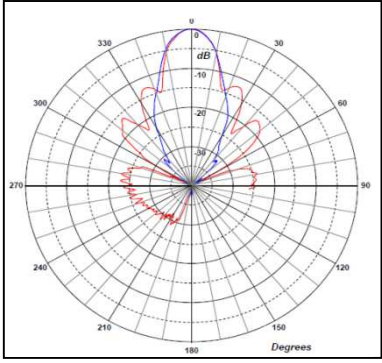
15 GHz



16.5 GHz



18 GHz



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

