

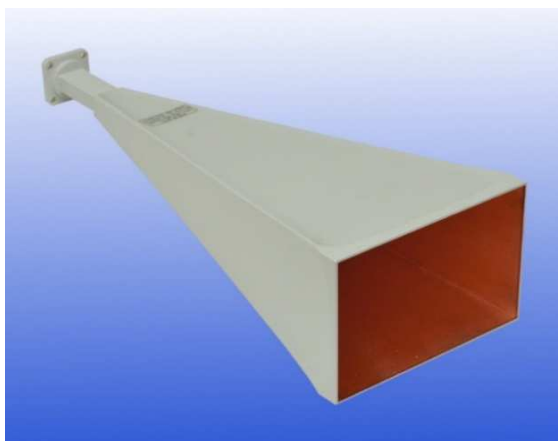
## 12 - 18 GHz Linearly Polarised 23 dBi Horn Antenna fitted with a WG18 / WR62 Flange

Catalogue number **QSH-SL-12-18-F-23**

Q-par reference **QMS-00199**

Contents **Summary**

**Typical Gain / Antenna Factor - at 1 metre**  
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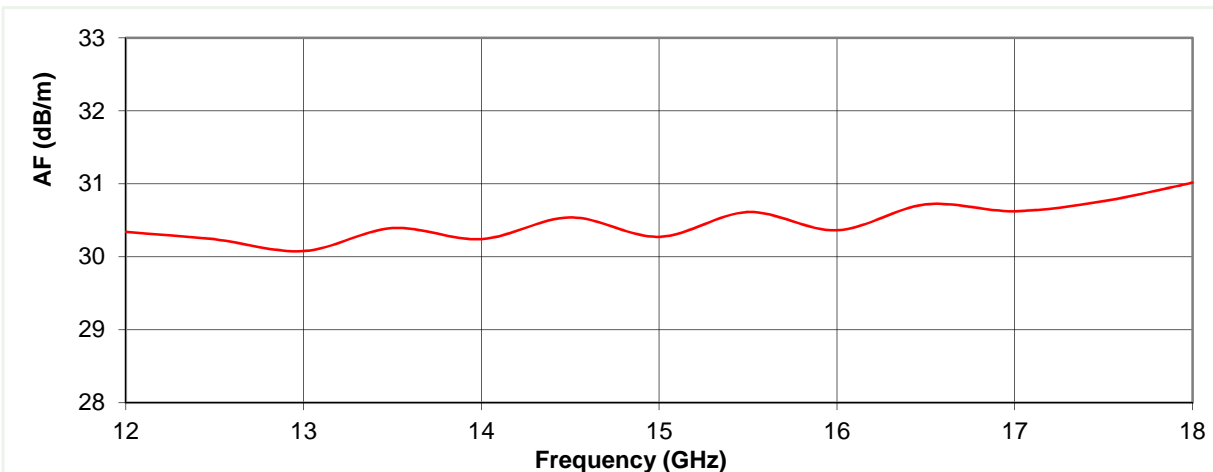
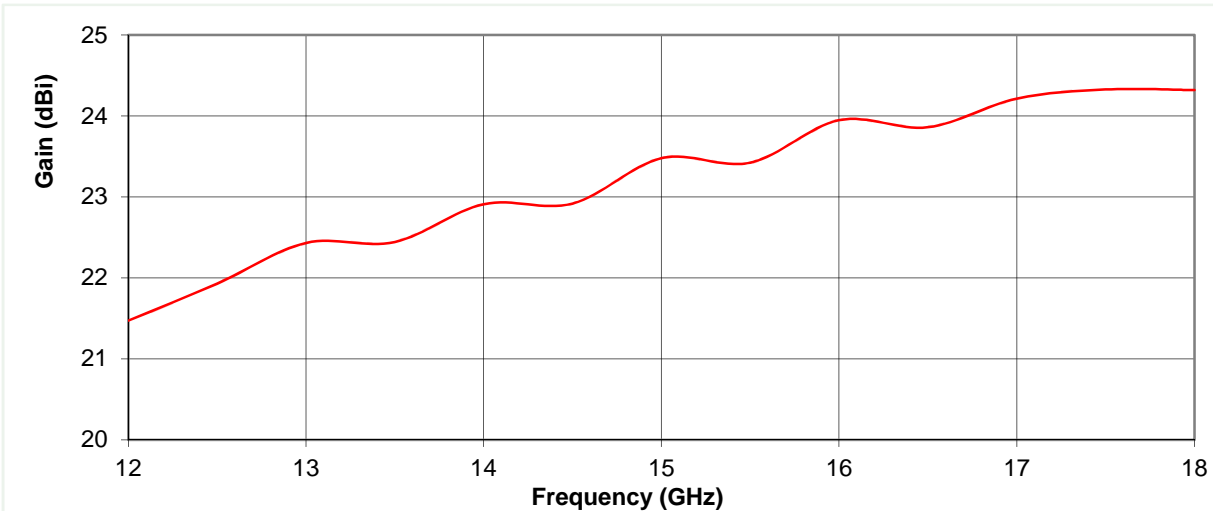


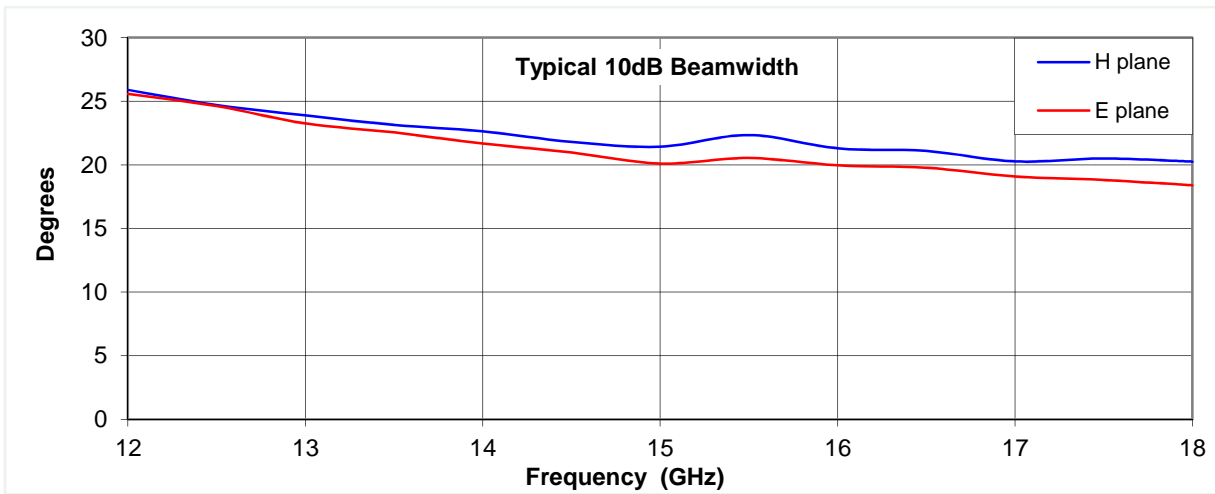
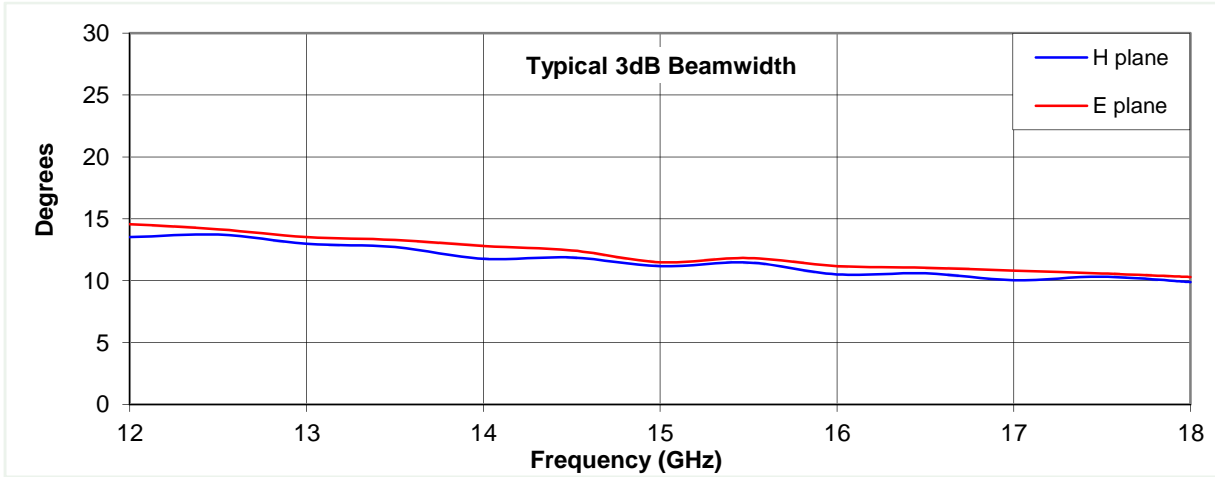
## Typical Specification

<b>Frequency</b>	12 to 18 GHz
<b>Connector Type</b>	UG419/U waveguide flange
<b>Power Handling</b>	2.2 kW c.w. 80 kW peak.
<b>VSWR</b>	< 1.1:1
<b>Gain</b>	21.5 to 24.3 dBi
<b>Antenna Factor</b>	30.1 to 31 dB/m
<b>3dB Beamwidth</b>	10 to 15 degrees
<b>10dB Beamwidth</b>	18 to 26 degrees
<b>Weight</b>	1.25 kg nominal
<b>Maximum Size</b>	129 mm x 82 mm ext. aperture x 350 mm long (nominal)
<b>Mounting</b>	Waveguide flange
<b>Construction</b>	Electroformed copper and brass flange, painted

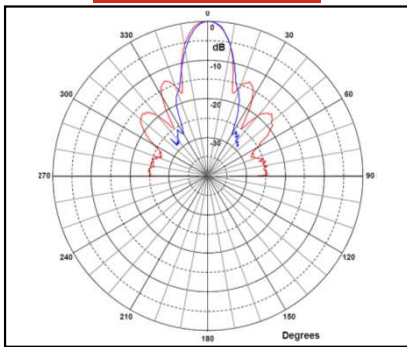
## Typical Antenna Gain / Factor - at 1 metre

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.

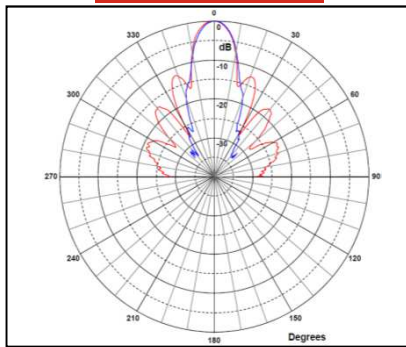




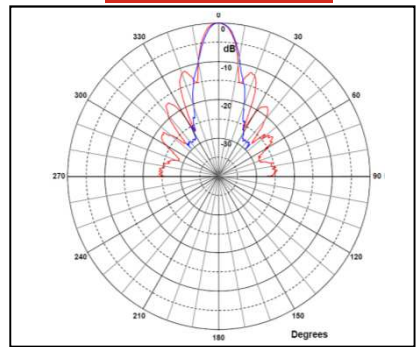
**12 GHz**



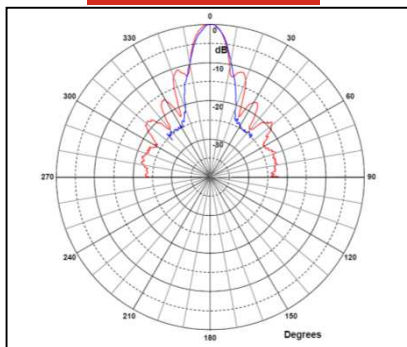
**13.5 GHz**



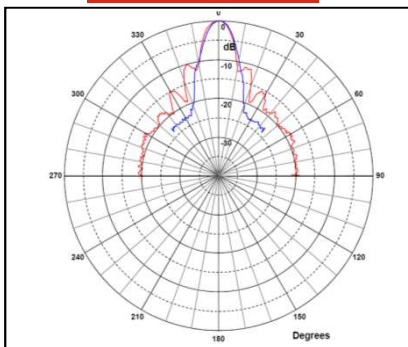
**15 GHz**



**16.5 GHz**



**18 GHz**



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

