Q-par Angus Ltd

IDEAS ENGINEERED

Standard Gain Horn Antenna

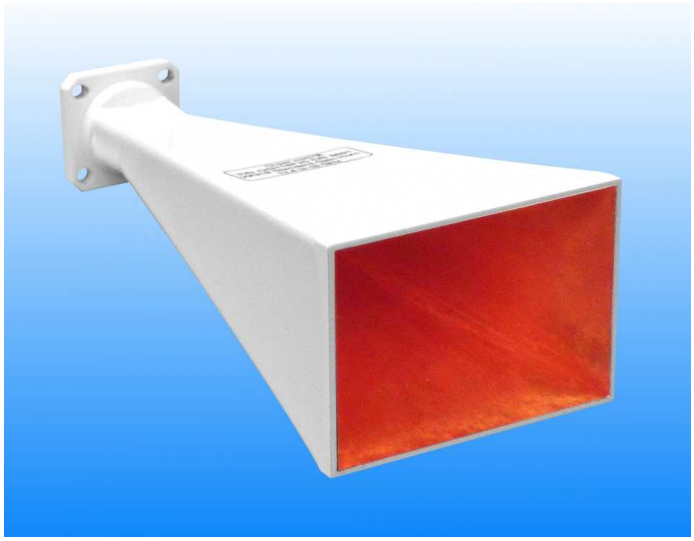
12.4 to 18 GHz

WG18 WR62 R140

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

Q-par reference: **QMS-00202**

Contents:



Test Report

SD 03/07/2013 0999

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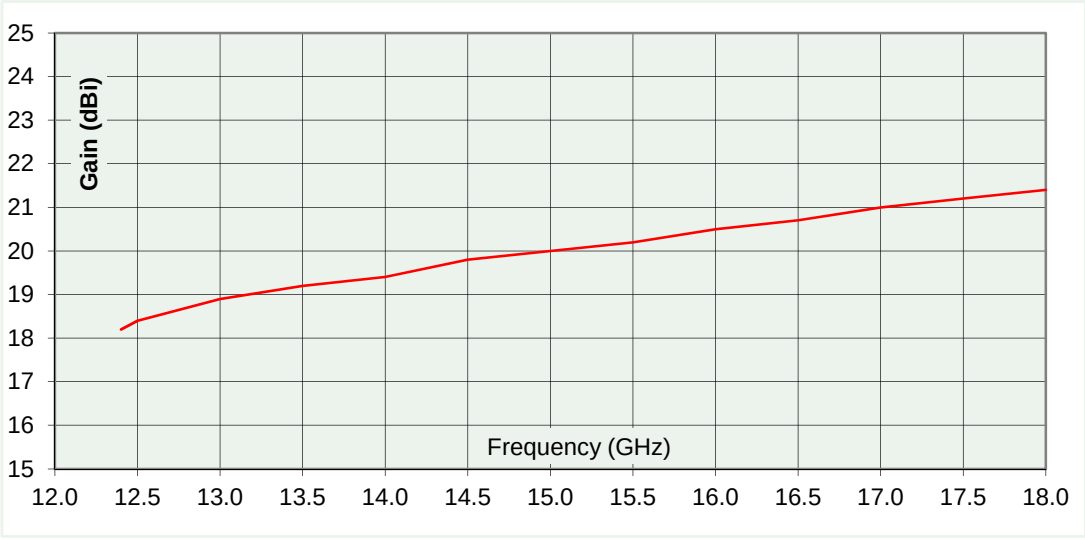
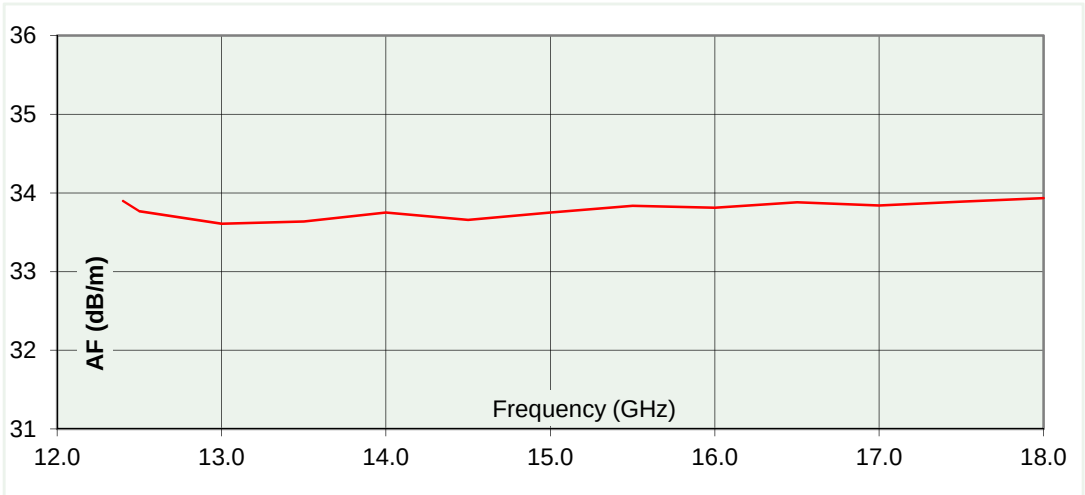
Typical Specification

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.





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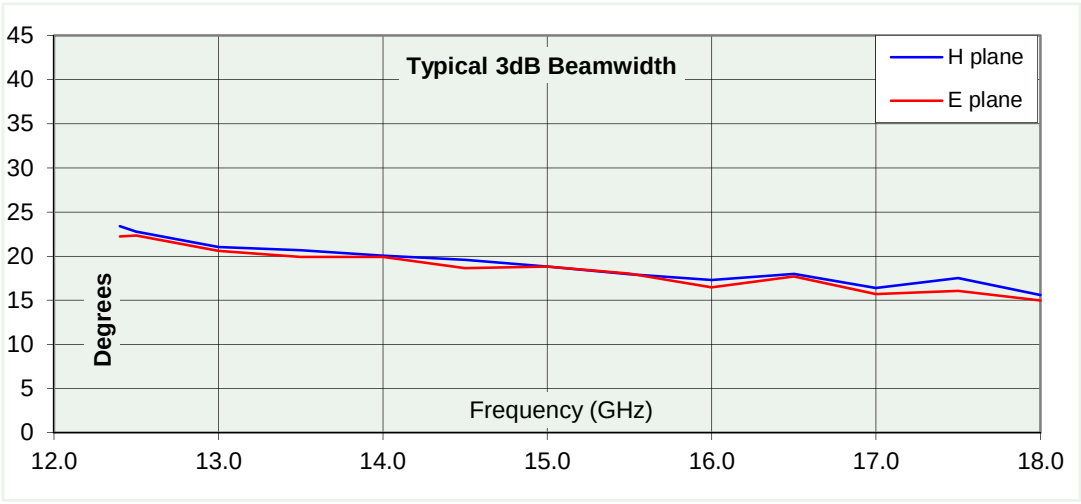
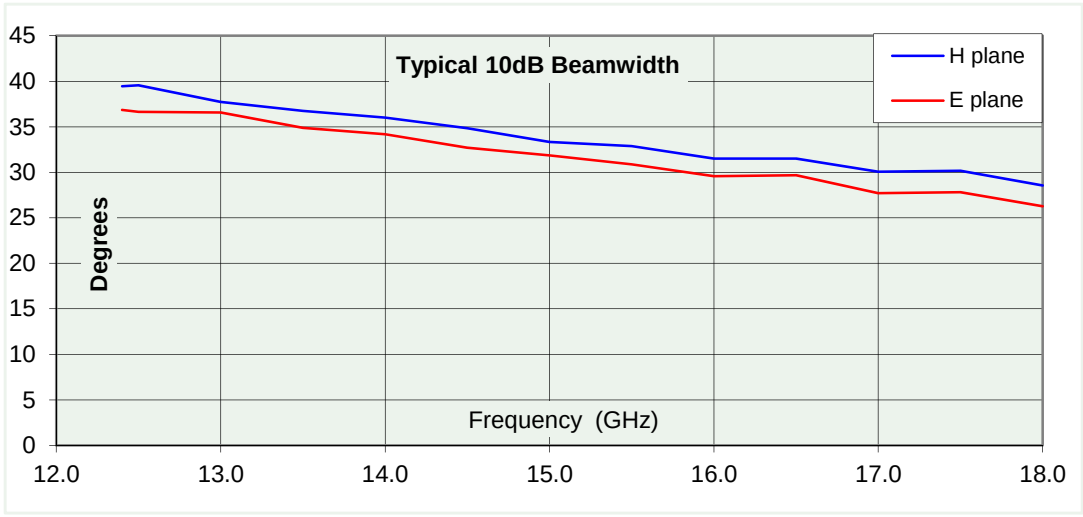
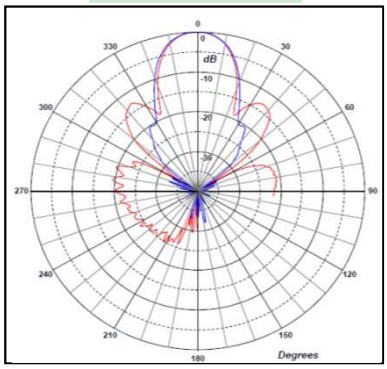
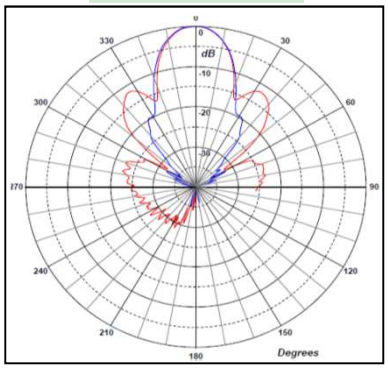




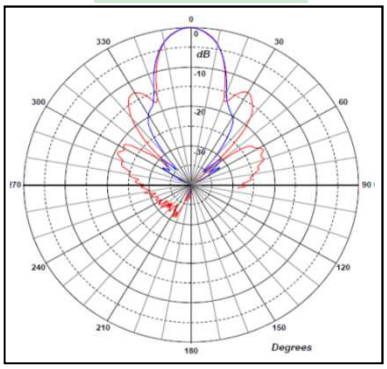
12.4 GHz



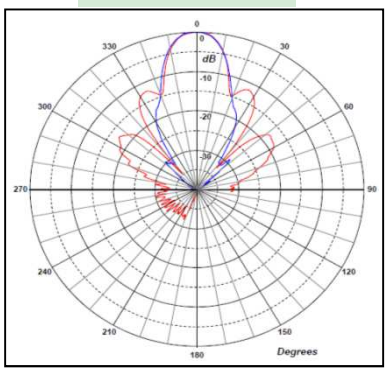
13.5 GHz



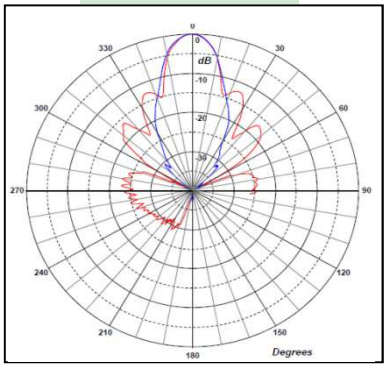
15 GHz



16.5 GHz



18 GHz



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

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