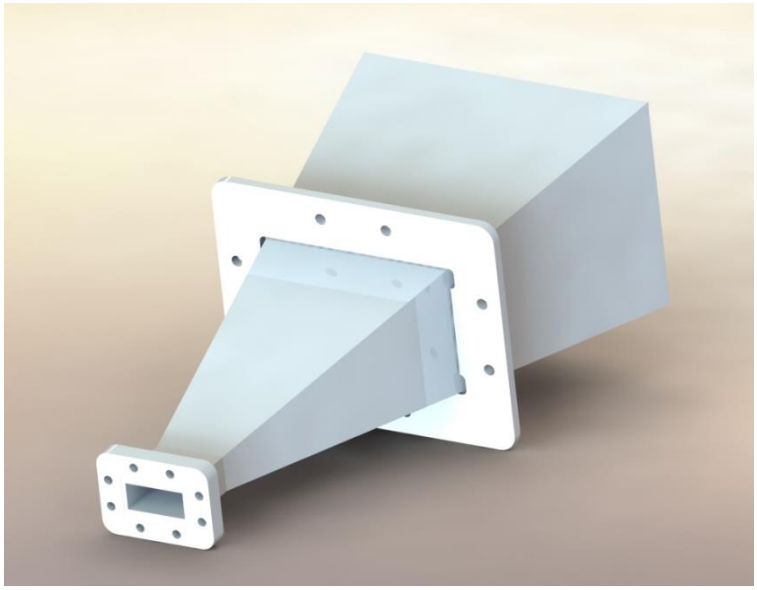
6 - 8 GHz Linearly Polarised 20 dBi Horn Antenna fitted with a Waveguide Flange

Catalogue number **QSH-SL-6-8-F-20**

Steatite reference **QMS-01065**

Contents



QQD06-2 V7.3

PDM 26/02/2020 2540

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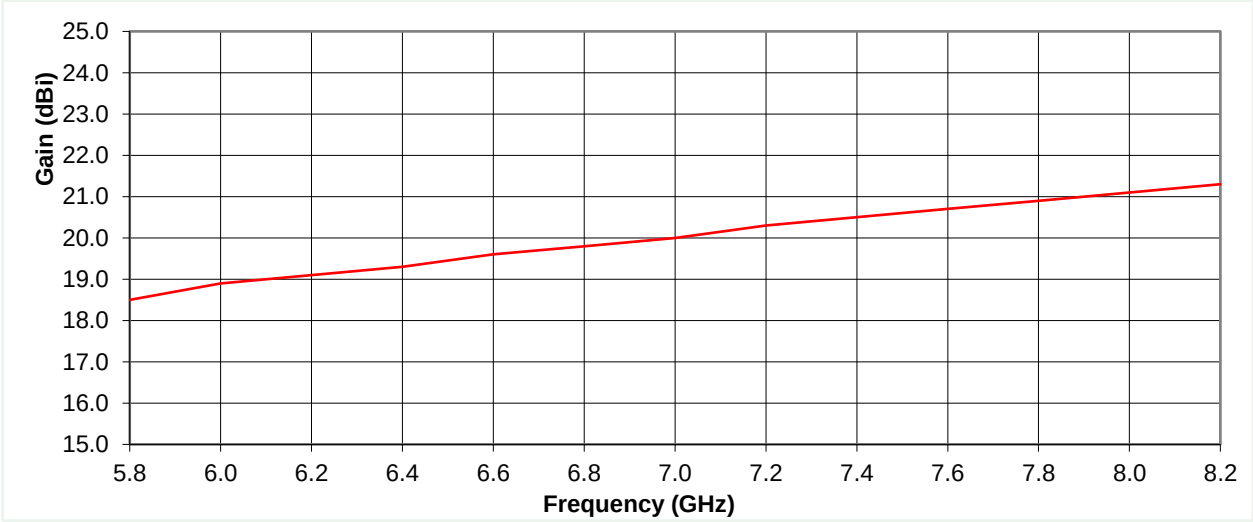
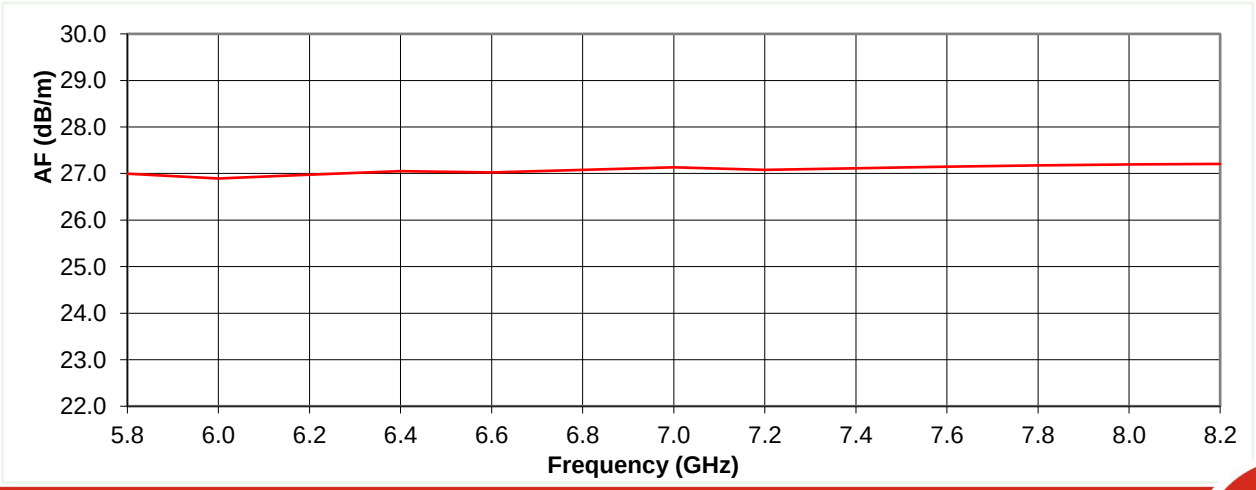
Typical Specification

Frequency	5.8 to 8.2 GHz
Connector Type	WG14 flange.
Power Handling	8kW CW, 1.98MW peak at 1 ATM.
VSWR	Typically < 1.4 : 1
Gain	18.5 to 21.3 dBi
Antenna Factor	26.9 to 27.2 dB/m
3dB Beamwidth	15.4 to 21.5 degrees
10dB Beamwidth	26.2 to 38.1 degrees
Weight	1.3 kg nominal
Maximum Size	175 x 124 mm external aperture x 398 mm long
Mounting	Mounting flange with 8 Ø6.4m thru holes. See ICD
Construction	Welded aluminium, 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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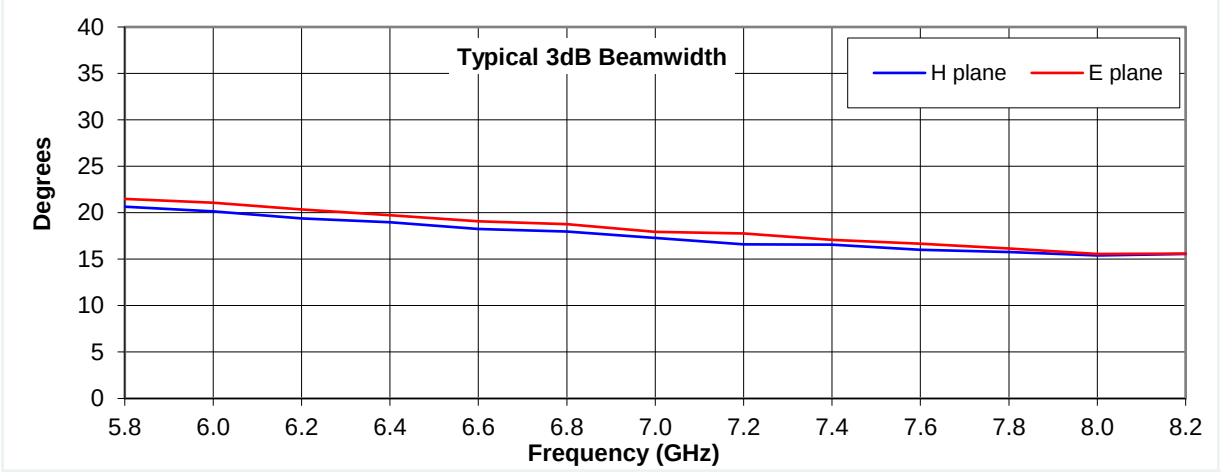
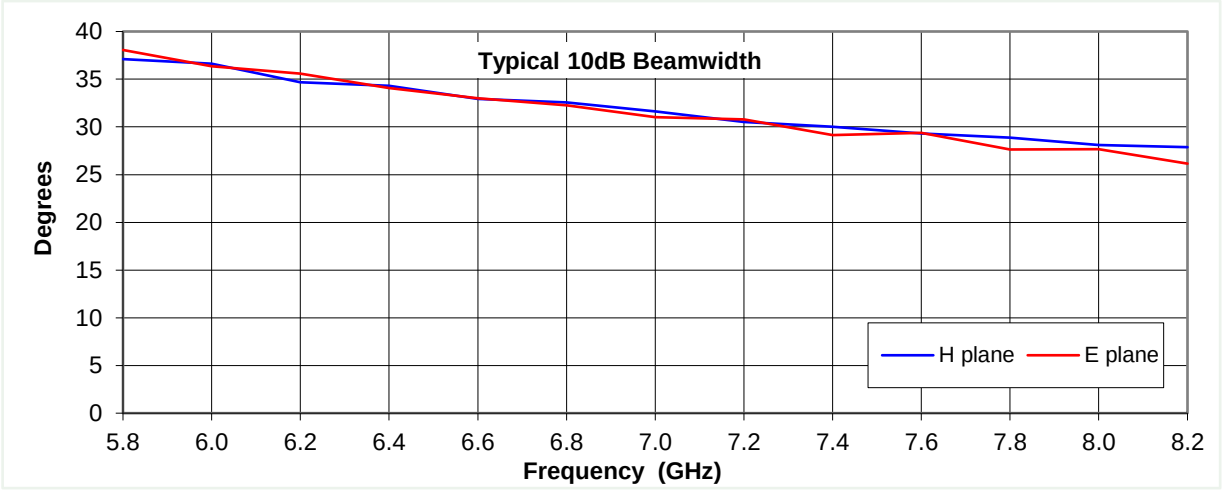
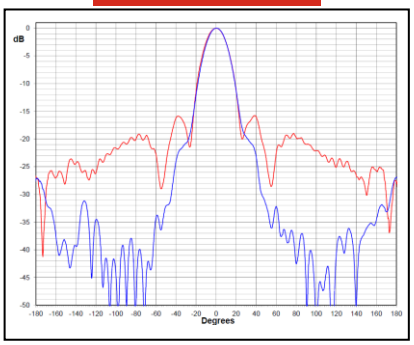
Typical Beamwidth / Radiation Patterns

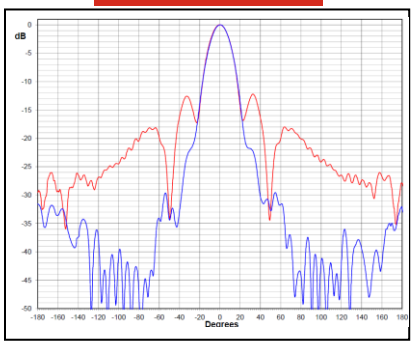




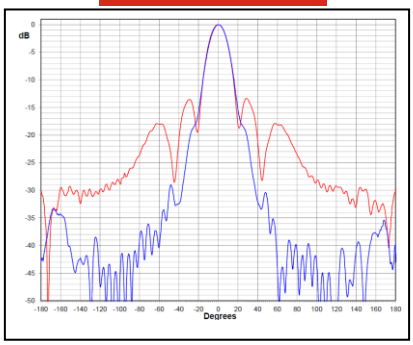
5.8 GHz



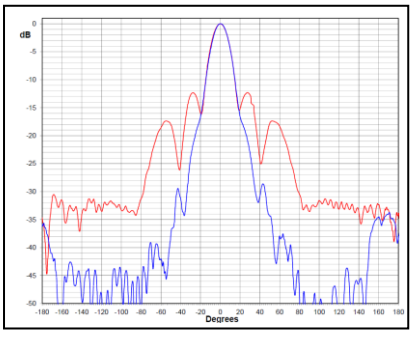
6.4 GHz



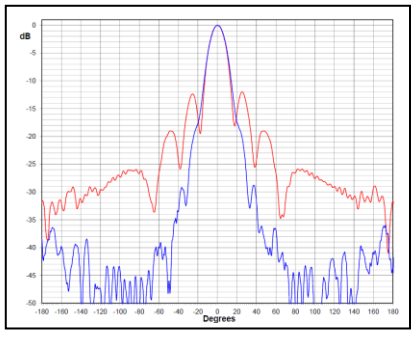
7.0 GHz



7.6 GHz



8.2 GHz



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

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