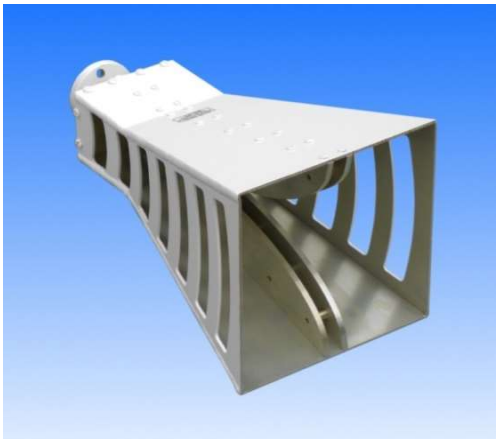
# 1 - 8 GHz Linearly Polarised Wideband High Power Ridged Horn Antenna fitted with a N type Connector

Catalogue number **QWH-SL-1-8-N-SG**

Q-par reference **QMS-00976**

Contents



STEATITE LIMITED (ANTENNAS DIVISION)
UNIT 15, CROFT BUSINESS PARK
LEOMINSTER
HEREFORDSHIRE
HR6 0QF

TEL: +44 (0)1568 617920
FAX: +44 (0)1568 616373
EMAIL: sales.antennas@steatite.co.uk

www.steatite.co.uk

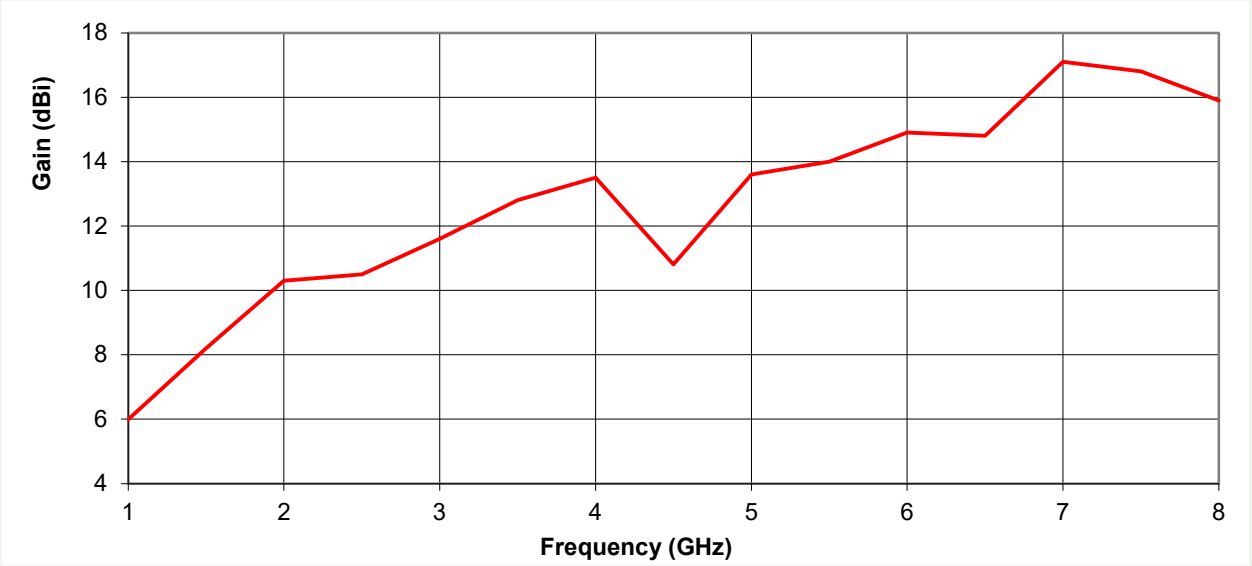
A SOLID STATE COMPANY
ISO 9001 : 2015

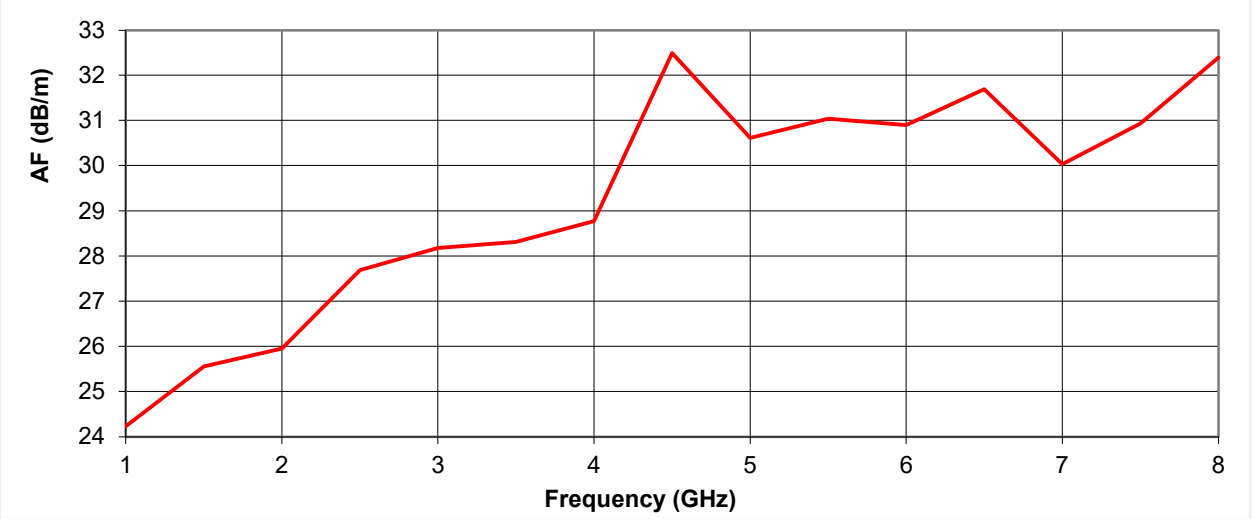
## Typical Specification

| | |
|---|---|
| **Frequency** | 1 to 8 GHz |
| **Connector Type** | N-Type Female |
| **Power Handling** | Typically 100W CW |
| **VSWR** | Typically < 1.4:1 (1.7:1 maximum) |
| **Gain** | 6 to 17.1 dBi |
| **Antenna Factor** | 24.2 to 32.5 dB/m |
| **3dB Beamwidth** | 15 to 81 degrees |
| **10dB Beamwidth** | 29 to 180 degrees |
| **Weight** | 1.5 kg - nominal |
| **Maximum Size** | 187 x 187 mm aperture x 285 mm long (excluding connector) |
| **Mounting** | 4 x M6 on a 30 x 35 mm square (refer to ICD) |
| **Construction** | Aluminium |

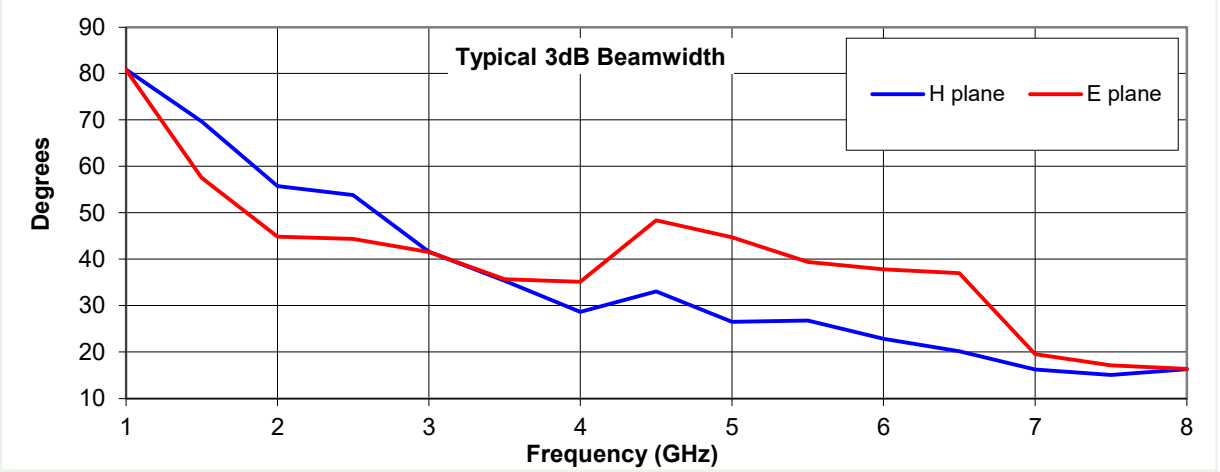
## Typical Antenna Gain / Factor

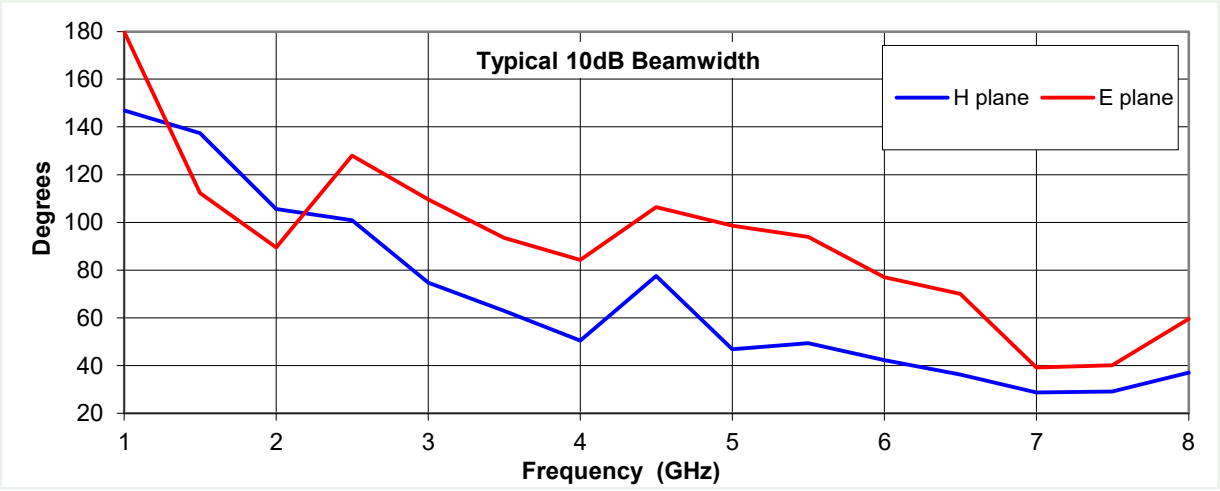
This is calculated by reference to standard gain horn antennas, and cross checked with reference to the antenna beamwidth, with an estimated error of +/- 0.8dB.



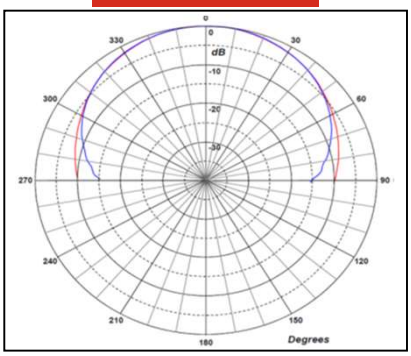



## Typical Beamwidth / Radiation Patterns

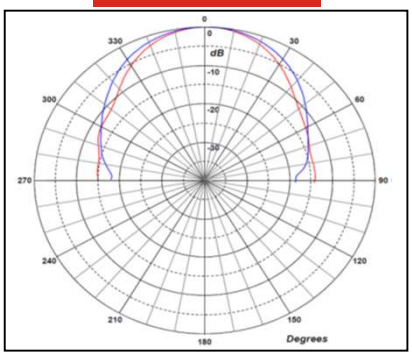


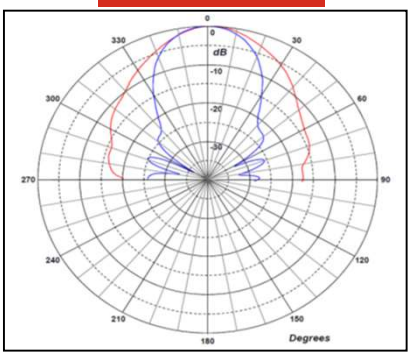

**1 GHz**



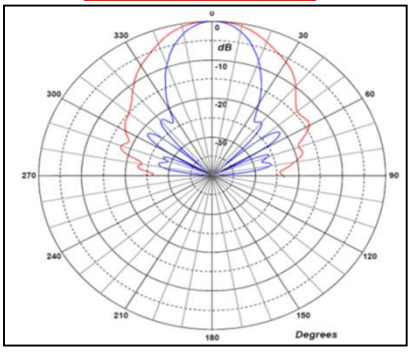
**2 GHz**



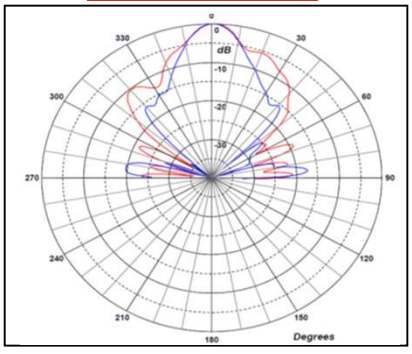
**4 GHz**



**6 GHz**



**8 GHz**



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