# 2 - 18 GHz Dual Linearly Polarised Sinuous Antenna fitted with SMA type Connectors

Catalogue number **QSI-DL-2-18-S-SG**

Q-par reference **QMS-00015**

Contents




**STEATITE LIMITED (ANTENNAS)**
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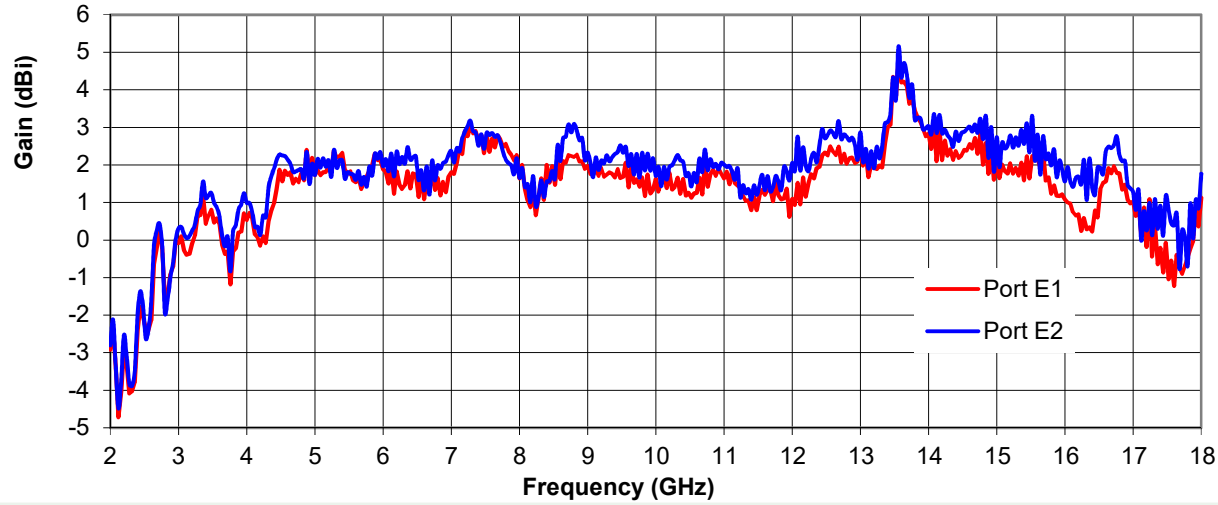
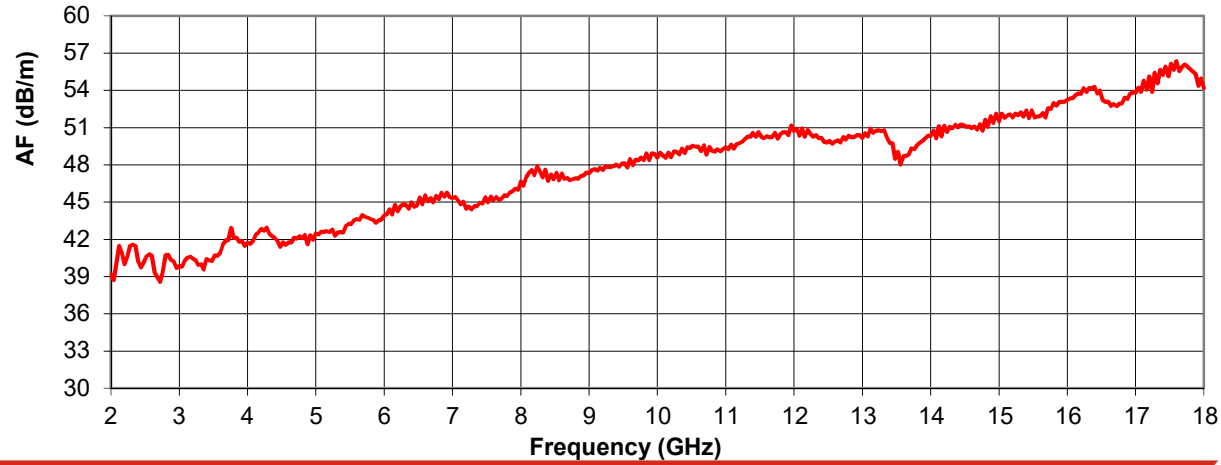
## Typical Specification

| | |
|---|---|
| **Frequency** | 2 to 18 GHz |
| **Connector Type** | 2 x SMA type jack |
| **Power Handling** | 1 Watt c.w. |
| **VSWR** | Typically < 3.2:1 |
| **Gain** | -4.4 to 5 dBi |
| **Antenna Factor** | 39 to 56 dB/m |
| **3dB Beamwidth** | 64 to 109 degrees |
| **10dB Beamwidth** | 122 to 180 degrees |
| **Weight** | 260 g |
| **Maximum Size** | 60 mm aperture x 82 mm long (incl. Connectors) |
| **Mounting** | 81 mm diameter flange with 8 holes,<br>diameter 3.3 mm on 75 mm pitch circle diameter |
| **Construction** | Aluminium and Engineering Plastics, painted |
| **Isolation** | > 25 dB between connectors (Typically > 32 dB) |
| **Polarisation wander** | Typically within +/- 10 degrees |

## 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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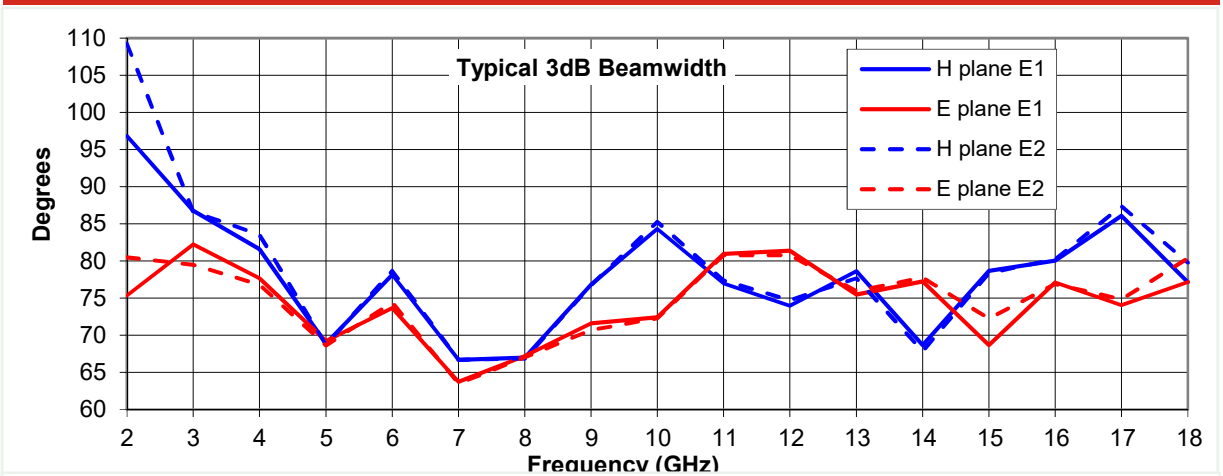
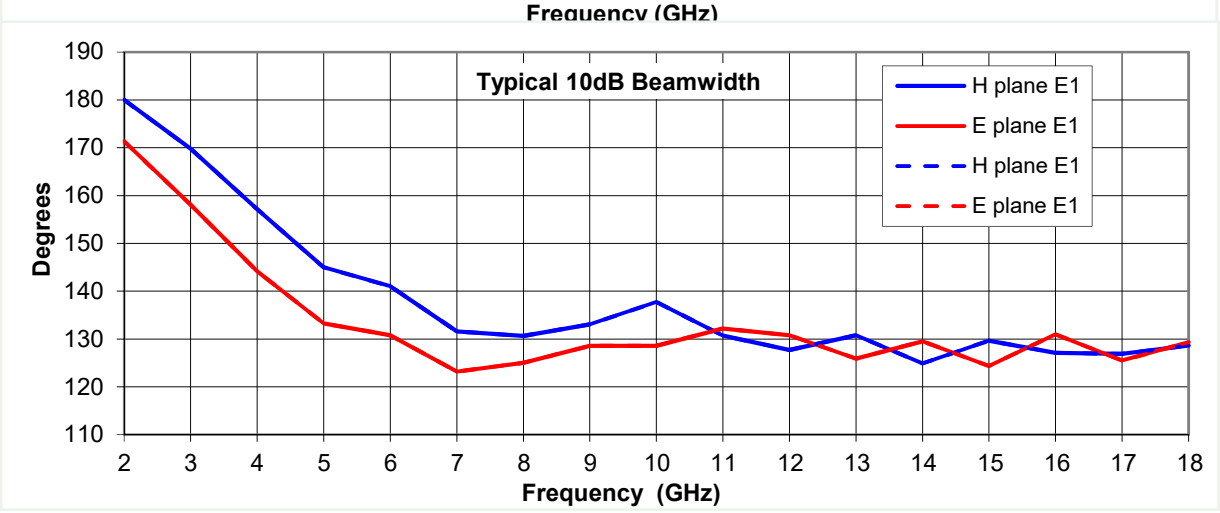
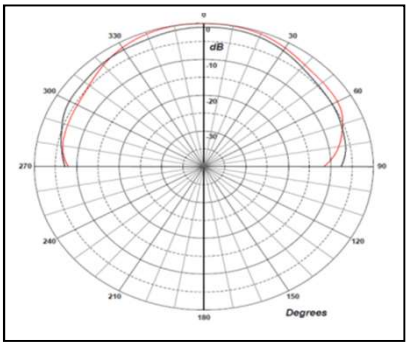
## Typical Beamwidth / Radiation Patterns

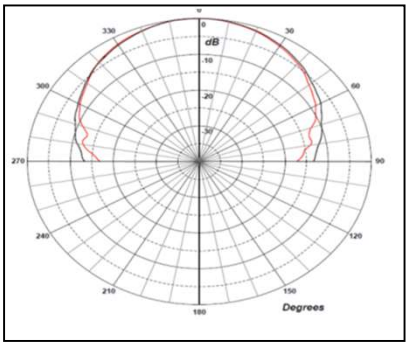


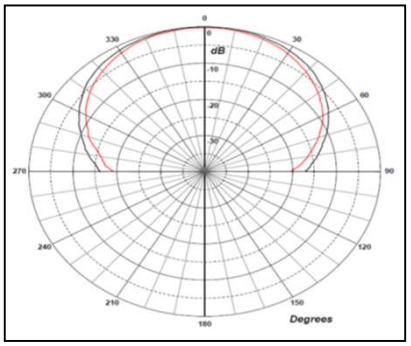

2 GHz



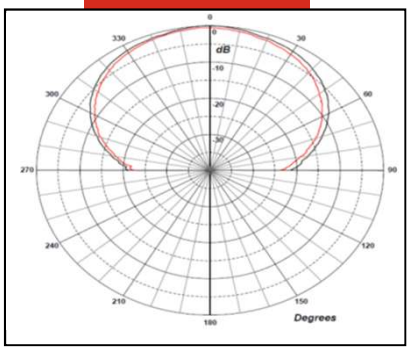

5 GHz



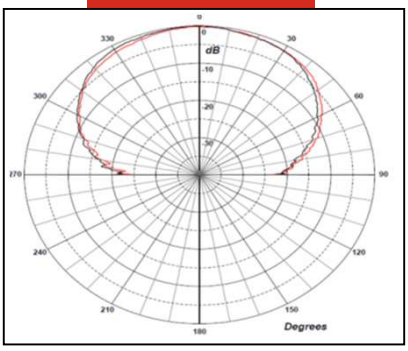

10 GHz




15 GHz




18 GHz




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

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