Spiral Antenna

18 to 42 GHz

Right Hand Circularly Polarised (RHCP)

Catalogue number: **QSP-RC-18-42-K-SG**

Q-par reference: **QMS-00049**

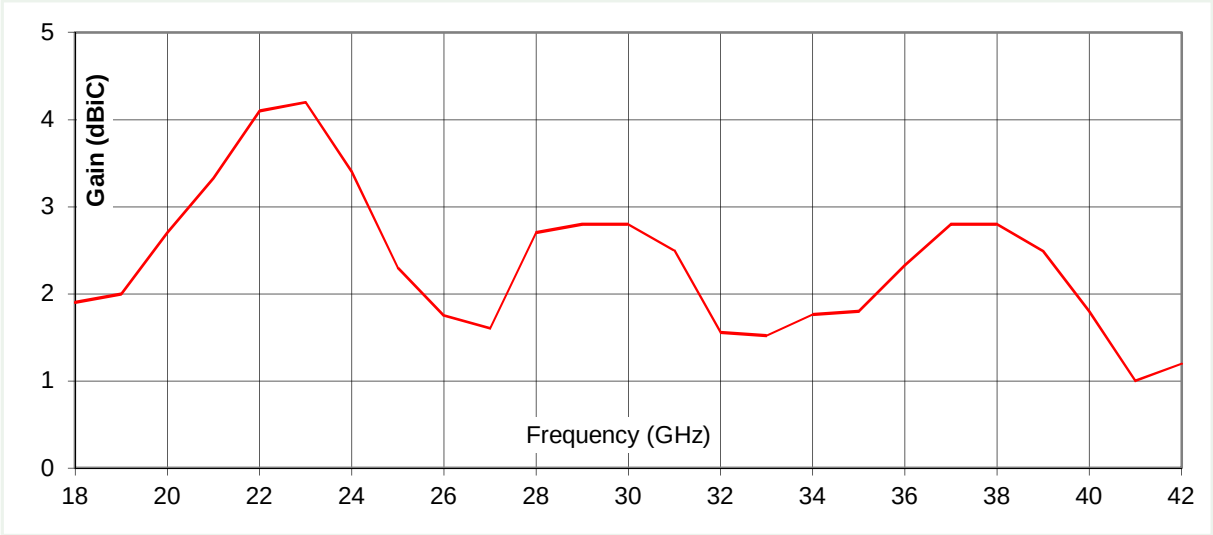
Contents:

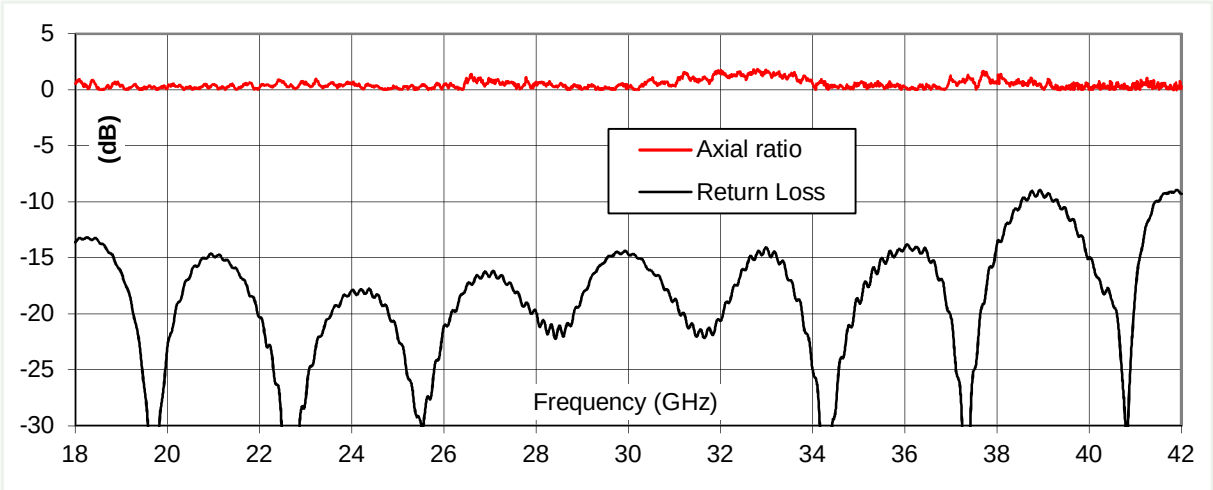
Typical Specification

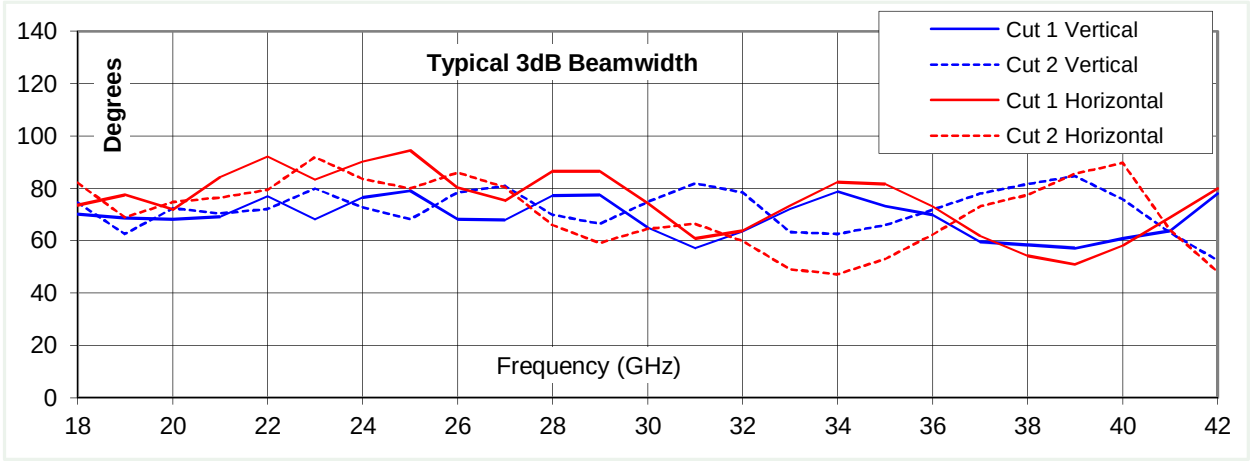
Frequency	18 to 42 GHz
Connector type	K type (2.92mm) jack
Power Handling	2 Watt c.w.
VSWR	Typically <2.5:1
Axial Ratio	< 2 dB
Gain	1 to 4.2 dBiC
Antenna Factor	53 to 61.5 dB/m
3dB Beamwidth	47 to 94 degrees
6dB Beamwidth	72 to 127 degrees
Weight	30 g nominal
Size- max.	35.4 mm diameter flange x 45 mm long
Mounting	6 holes, diameter 3.2 mm, 30 mm p.c.d.
Construction	Aluminium and Engineering Plastics

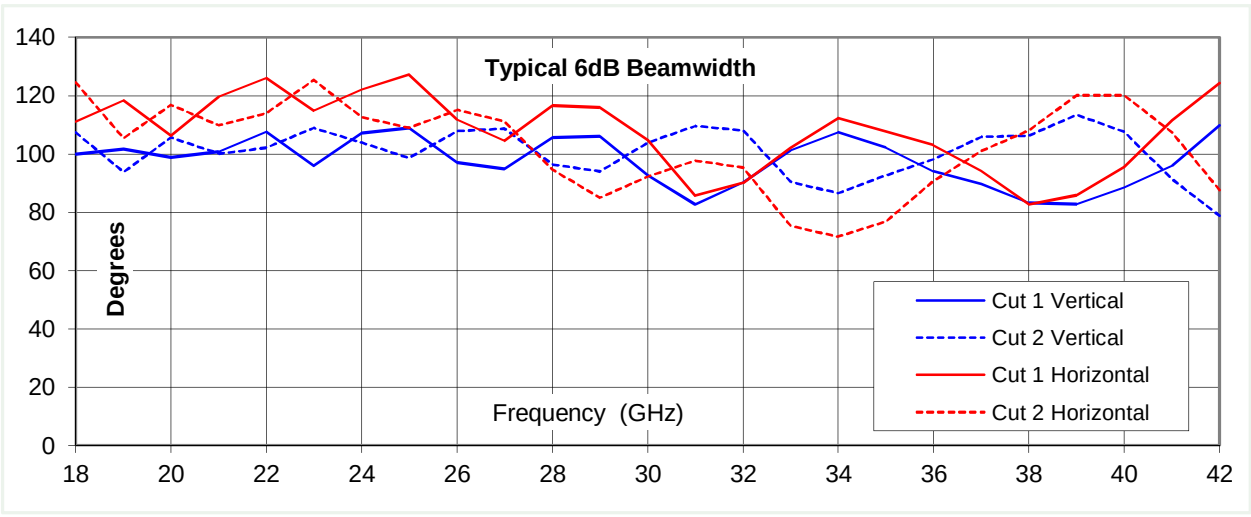
Typical Antenna Gain / Factor

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.

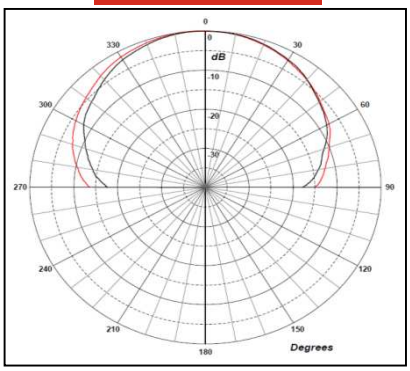




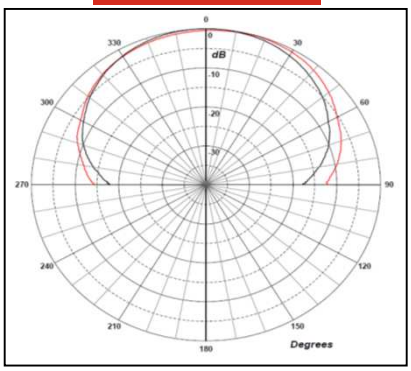




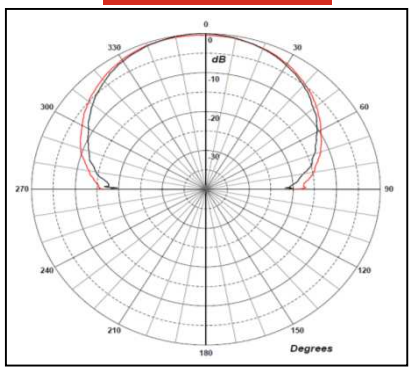
18 GHz



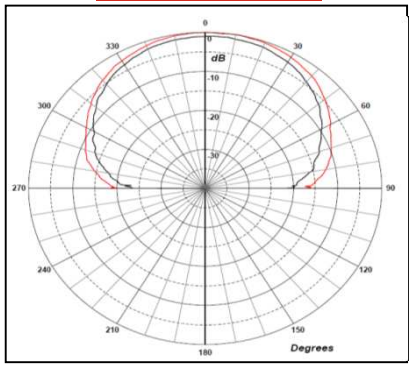
24 GHz



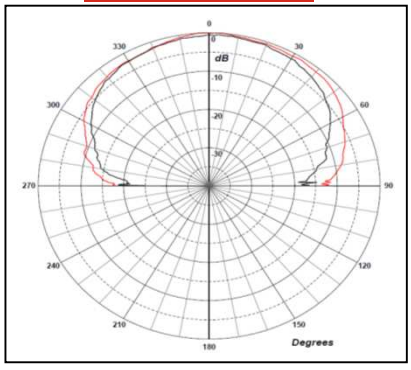
30 GHz



36 GHz

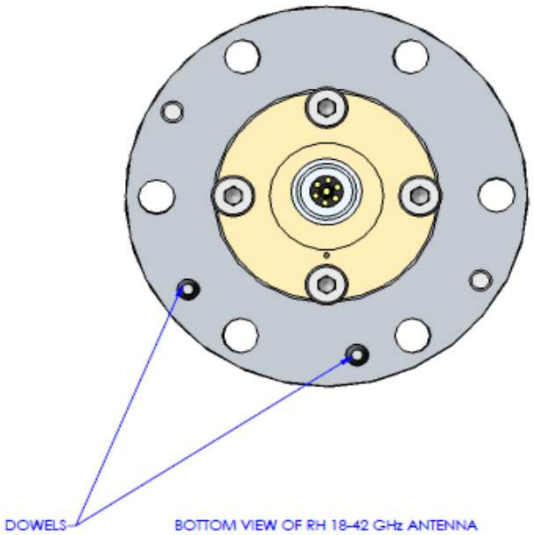


42 GHz

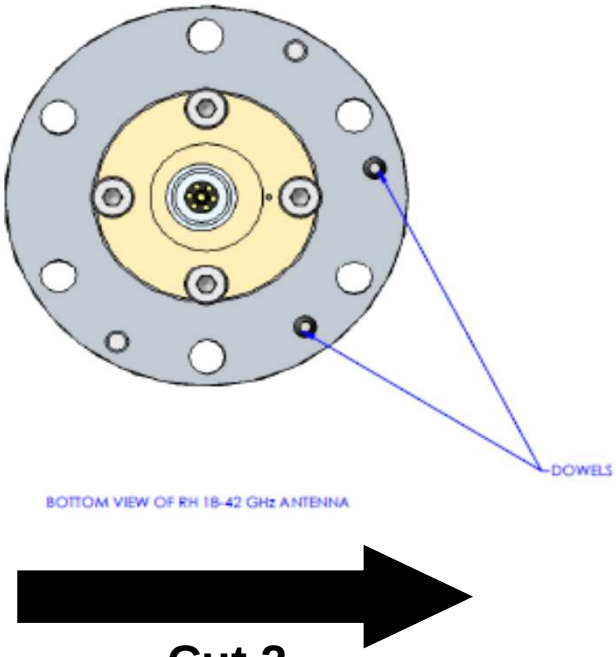


Patterns are done using a linear source antenna , polarisation refers to the polarisation of the source horn.
Pattern plots: **Red trace = Horizontal pol source**, **Black trace = Vertical pol source**

Cut 1 and Cut 2 definitions, viewed from rear of antenna
Vertical and Horizontal refers to the polarisation of the linear source antenna.



Cut 1



Cut 2

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