



# Spiral Antenna with Radome

## 18 to 42 GHz

### Right Hand Circularly Polarised (RHCP)

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

Q-par reference: **QMS-00051**

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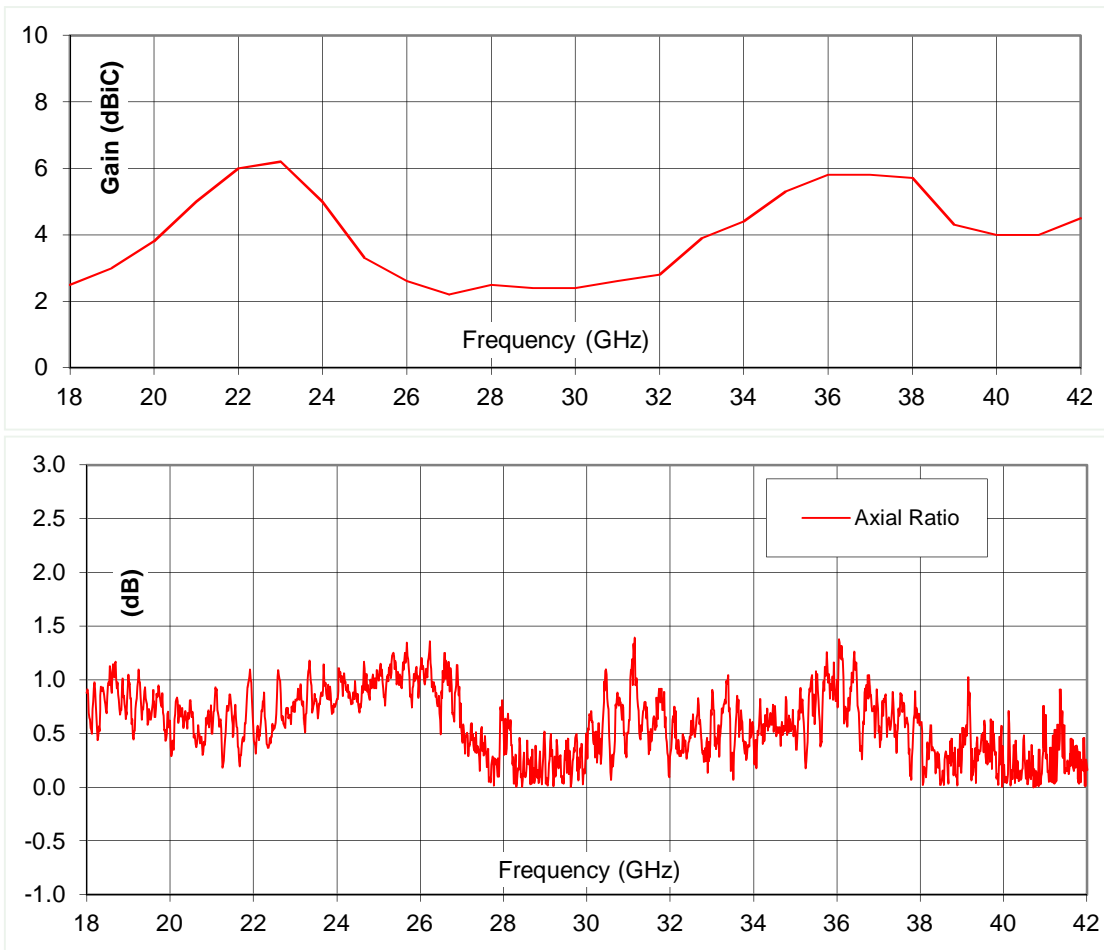


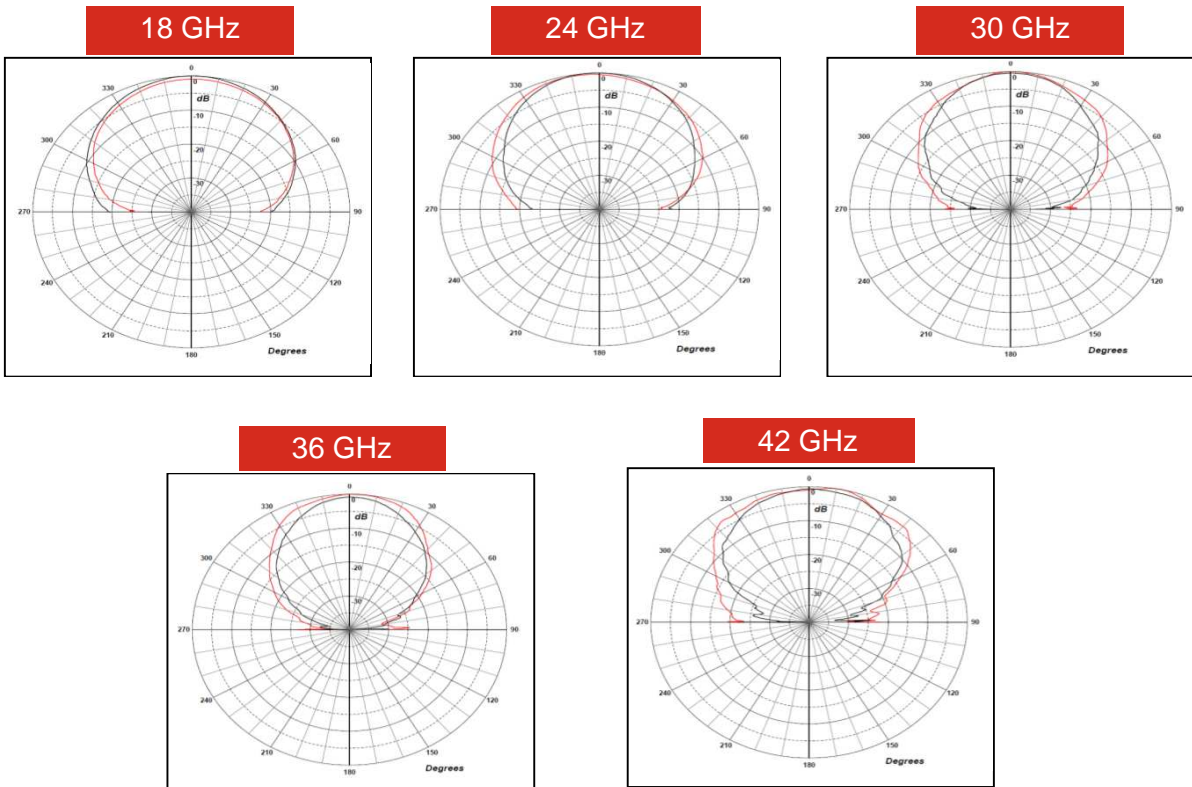
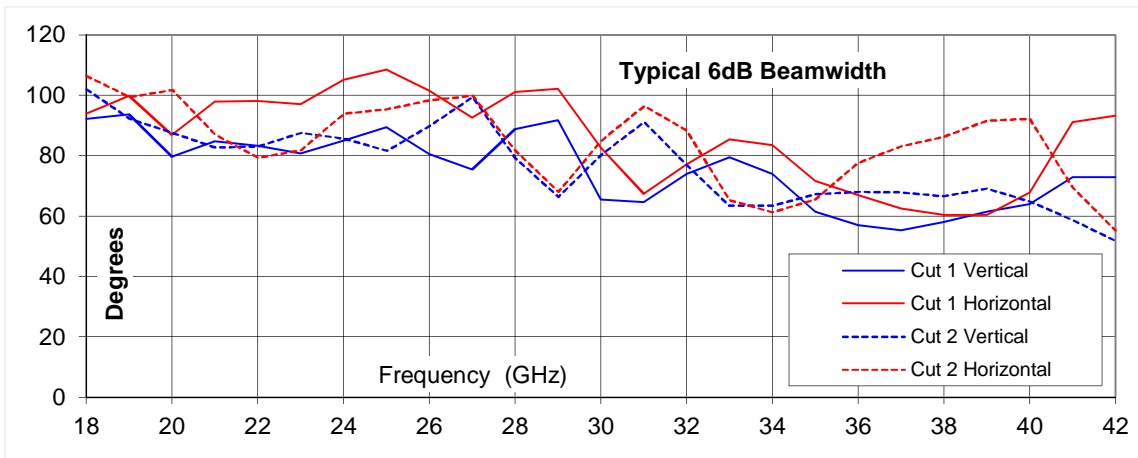
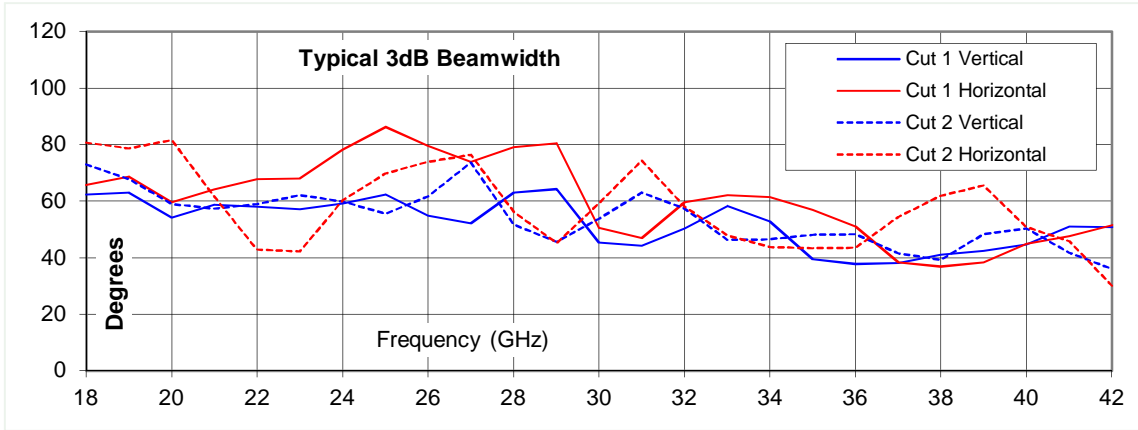
## Typical Specification

<b>Frequency</b>	18 to 42 GHz
<b>Connector type</b>	K type (2.92mm) jack
<b>Power Handling</b>	2 Watt c.w.
<b>VSWR</b>	Typically < 2.5 :1
<b>Gain</b>	2.2 to 6.2 dBiC
<b>3dB Beamwidth</b>	47 to 94 degrees
<b>Axial ratio</b>	< 2 dB
<b>Weight</b>	40 g
<b>Size - max.</b>	35.4 mm diameter flange x 55 mm long
<b>Mounting</b>	6 holes, diameter 3.2 mm, 30 mm p.c.d.
<b>Construction</b>	Aluminium and Engineering Plastics

## Typical Antenna Gain / Axial Ratio

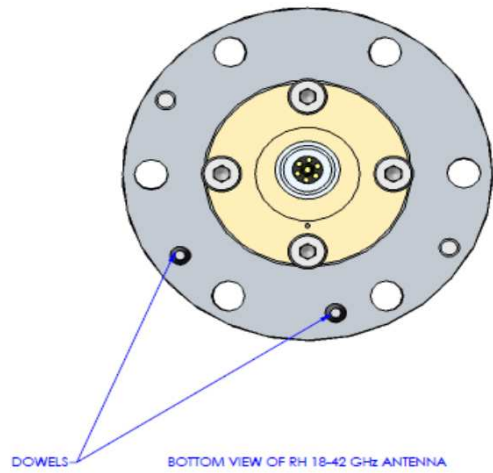
This is calculated using the 3 antenna method and by reference to standard gain horn antennas with an estimated error of +/- 0.8 dB.



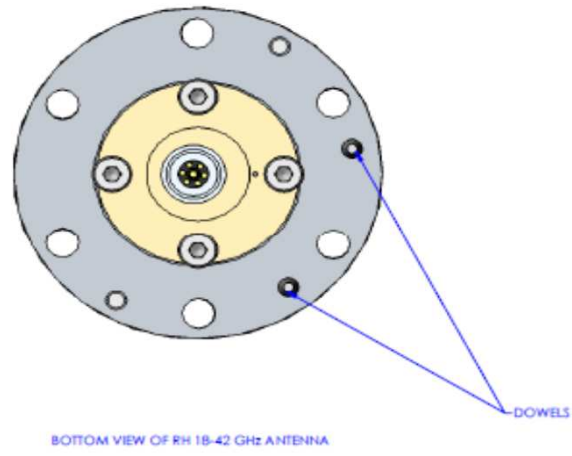


Patterns are done using a linear source antenna , polarisation refers to the polarisation of the source horn.  
 Pattern plots: **Red trace = Horizontal pol source**, **Black trace = Vertical pol source**

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**

