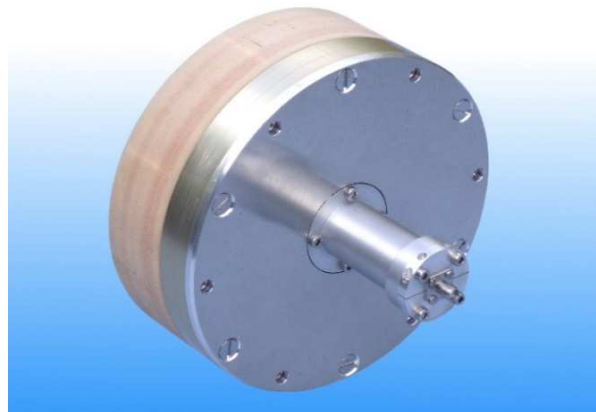


0.5-8 GHz Right Hand Circularly Polarised Spiral Antenna fitted with an SMA type Connector

Catalogue number **QSP-RC-0.5-8-S-SG**

Q-par reference **QMS-00767**

Contents **Summary**
Typical Gain / Axial Ratio
Typical Beamwidth / Patterns
Typical Pattern Squint
VSWR



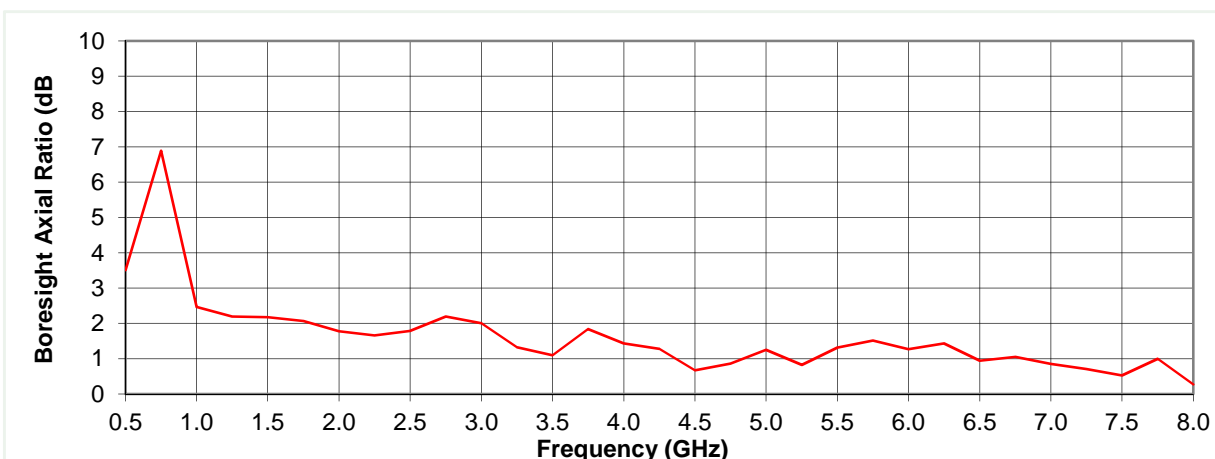
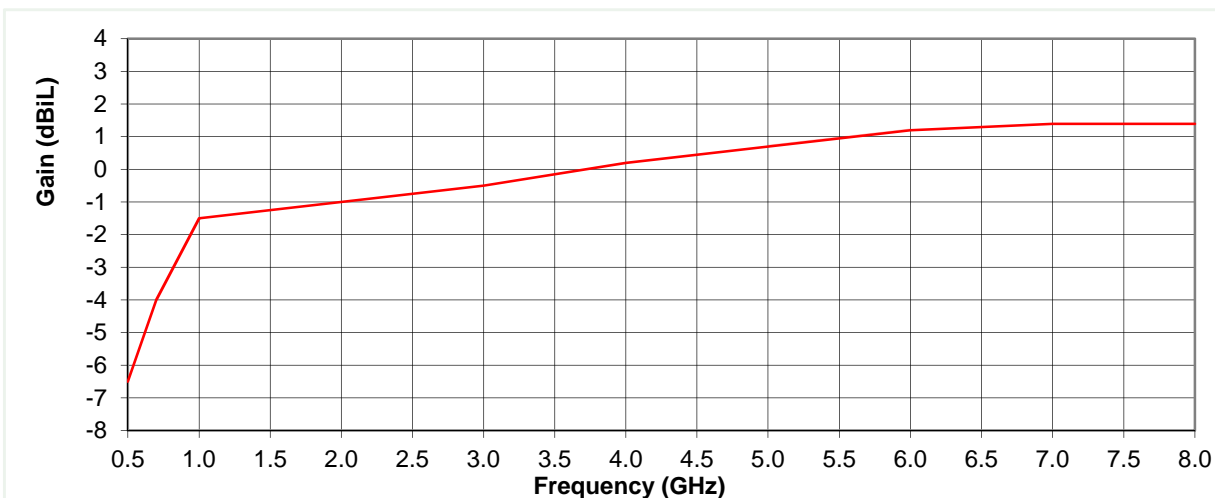
Typical photograph. Finish according to customer specifications.

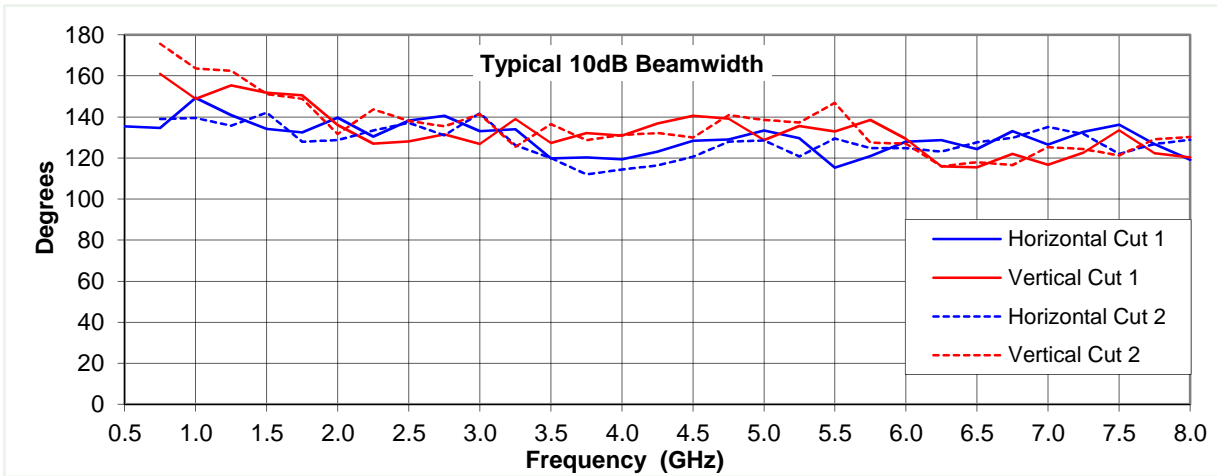
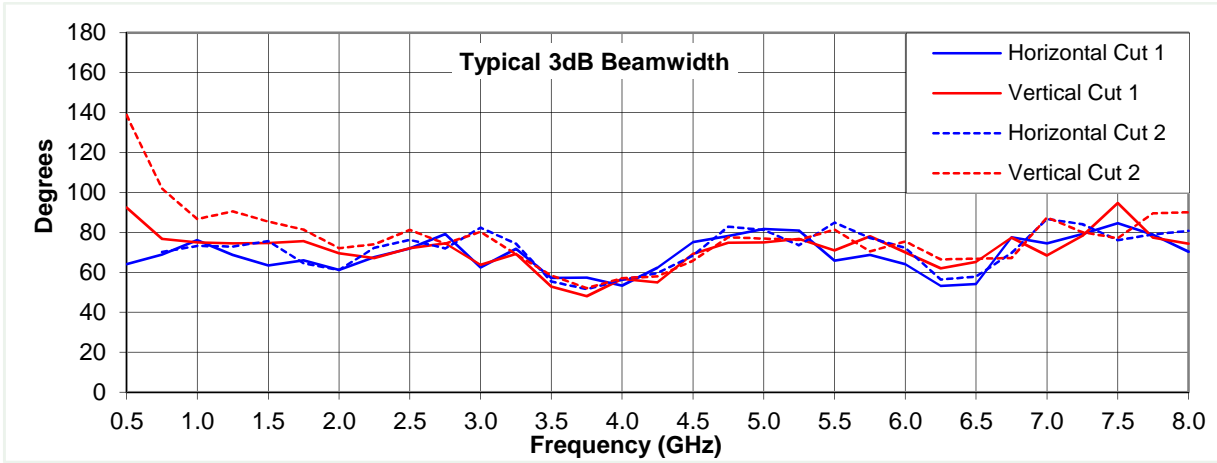
Typical Specification

Frequency	0.5 to 8 GHz
Connector Type	SMA type jack
Power Handling	2 Watt c.w.
VSWR	4.5:1 maximum. < 1.4 :1 above 1 GHz.
Gain	-6.5 to 1.4 dBiL
Axial Ratio	< 2 dB (above 1 GHz)
3dB Beamwidth	48 to 139 degrees
10dB Beamwidth	112 to 176 degrees
Squint	< 10 degrees
Maximum Size	152 mm diameter x 120 mm long
Weight	570 g nominal
Construction	Aluminium and engineering plastics
Mounting	4 holes tapped M5 x 7.5 mm deep, 137.2 mm pitch circle diameter

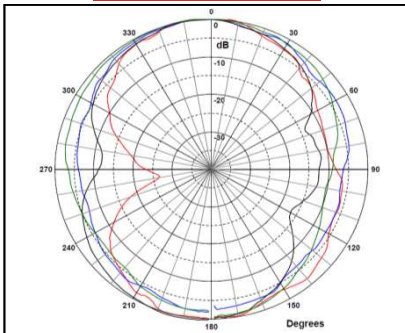
Typical Antenna Gain / Factor

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.

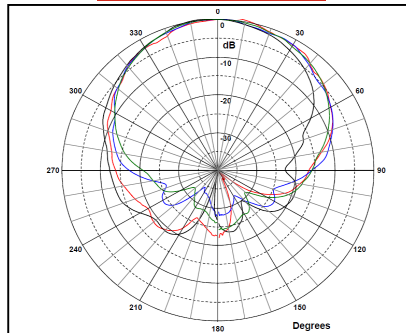




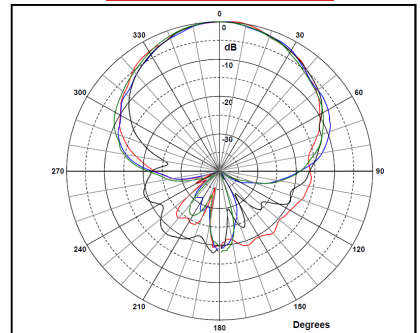
0.5 GHz



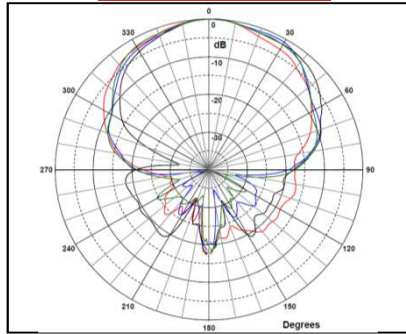
2 GHz



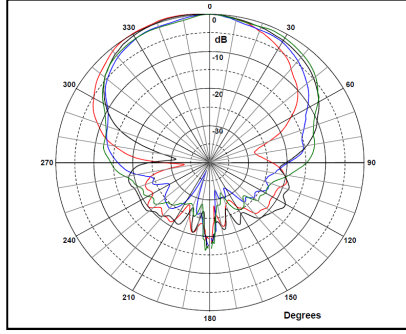
4 GHz



6 GHz



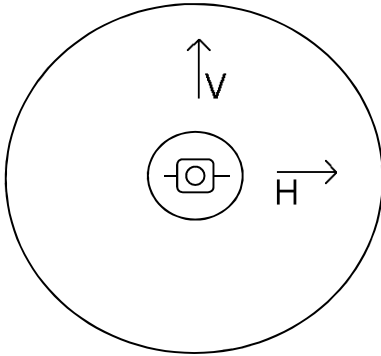
8 GHz



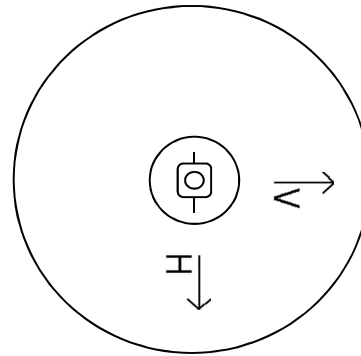
Patterns measured using a linear source antenna , Horizontal / Vertical refers to the polarisation of the source horn.
 On patterns the **Red & Black trace = Horizontal polarised source, Green & Blue trace = Vertical polarised source**

Pattern Cut Definition

Patterns are measured using a linear source antenna. The polarisation refers to the electric field polarisation of the source antenna.



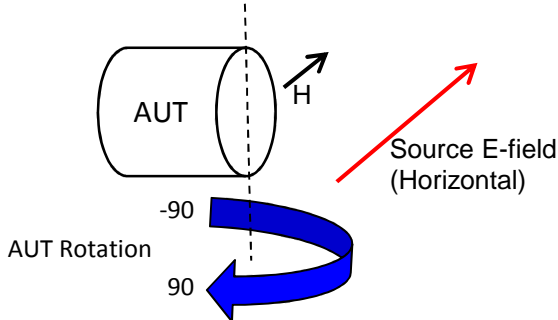
Horizontal Cut (Cut 1)



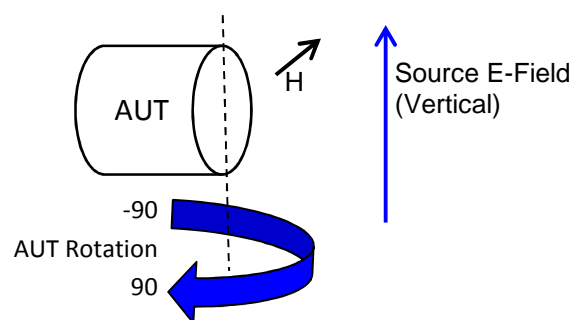
Vertical Cut (Cut 2)

Antenna viewed from back

Horizontal source polarisation



Vertical source polarisation



On the typical antennas patterns shown above the :-

Red trace = Sweep with horizontal source polarisation and antenna under test in horizontal cut (cut 1)

Blue trace = Sweep with vertical source polarisation and antenna under test in horizontal cut (cut 1).

Pattern Squint

