

6 - 10 GHz Right Hand Circularly Polarised High Gain Spiral Antenna fitted with an SMA type Connector

Catalogue number **QSP-RC-6-10-S-HG**

Steatite reference **QMS-00975**

Contents **Summary**
Simulated Gain
Simulated Beamwidth / Patterns
Simulated VSWR
Draft Interface Control Drawing



This data sheet is presented as a high gain narrow band version of the QMS-00973 antenna. The results herein are purely from simulations and minimal optimisation has been performed (note the higher VSWR and increased beam squint on PHI 0 cuts.

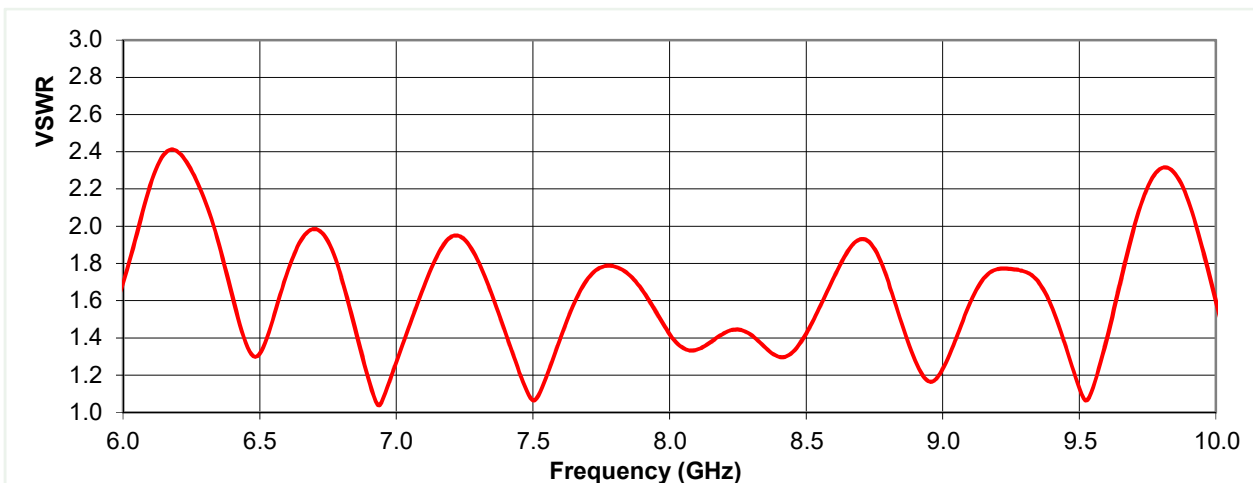
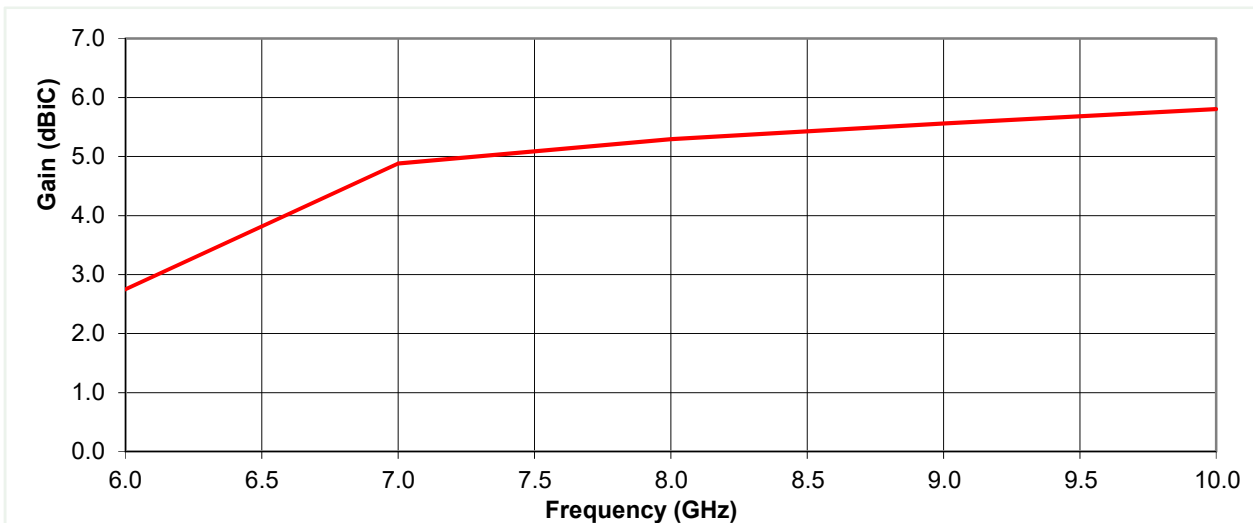


Typical Specification

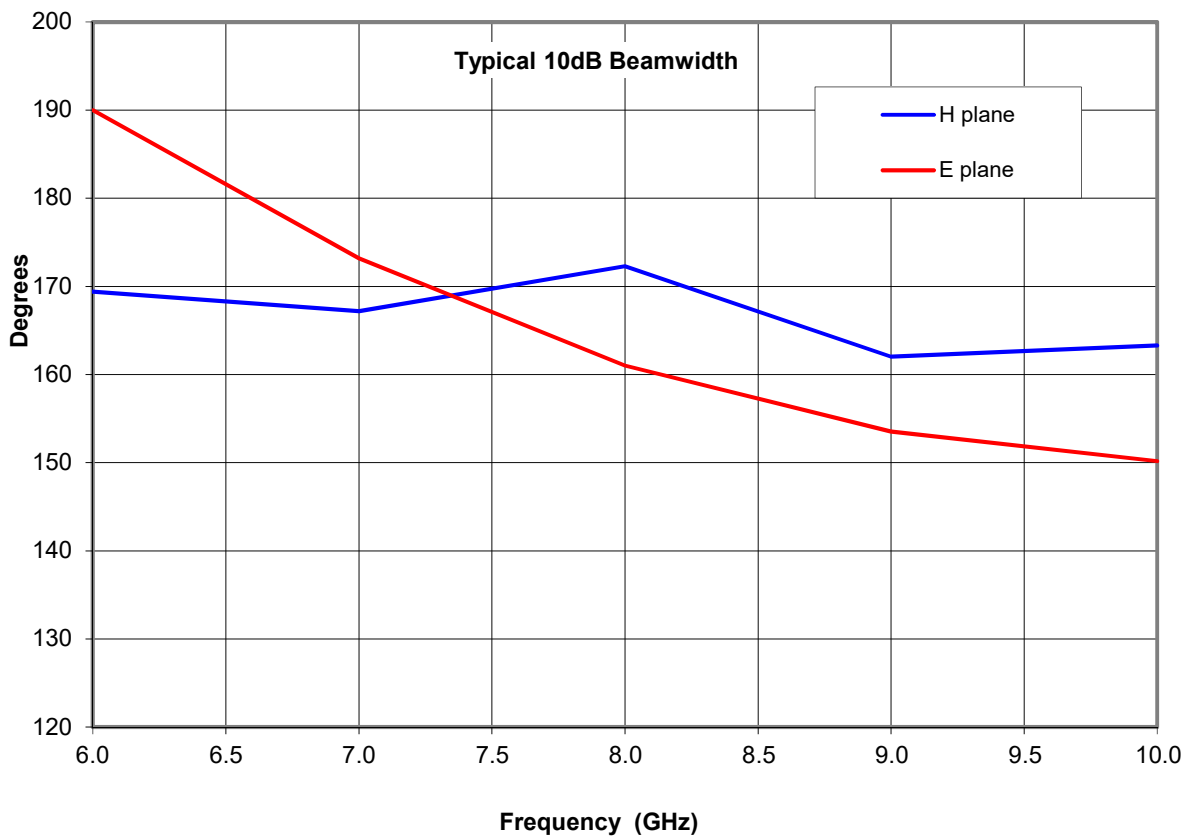
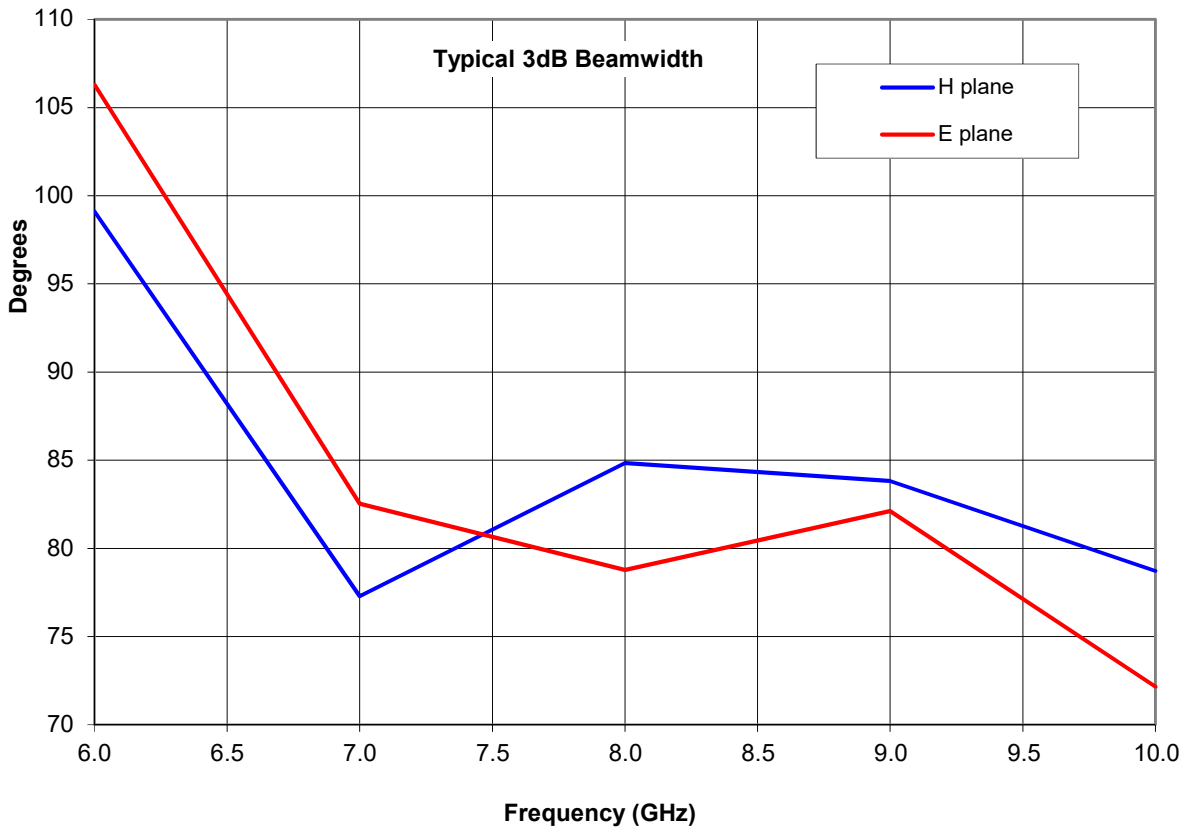
Frequency	6 to 10 GHz
Connector Type	SMA Female
Power Handling	2W CW
VSWR	Typically <2:1
Gain	2.7 to 5.8 dBi
Antenna Factor	42.3 to 44.4 dB/m
3dB Beamwidth	72 to 106 degrees
10dB Beamwidth	150 to 190 degrees
Weight	35g nominal
Maximum Size	25mm Diameter by 40.5mm Length (excluding connector)
Mounting	4 x M3 mounting threads on a 20mm PCD (rear mount)
Construction	Aluminium housing and PTFE front face.

Simulated Antenna Gain / VSWR

This is simulated using CST Microwaves Studio 2019.

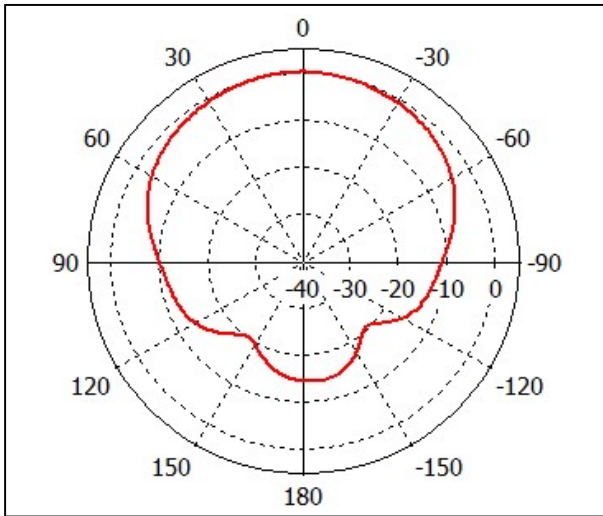


Simulated Beamwidth

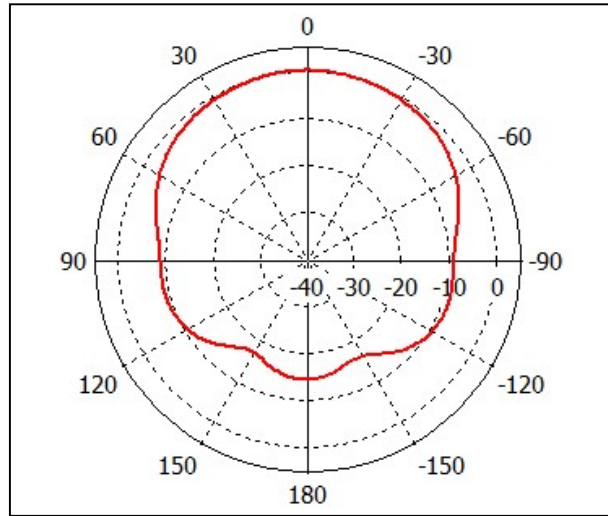


Simulated Radiation Patterns

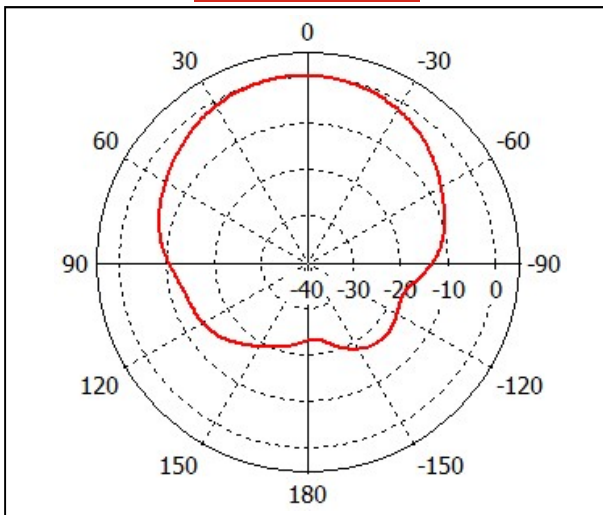
6 GHz PHI 0



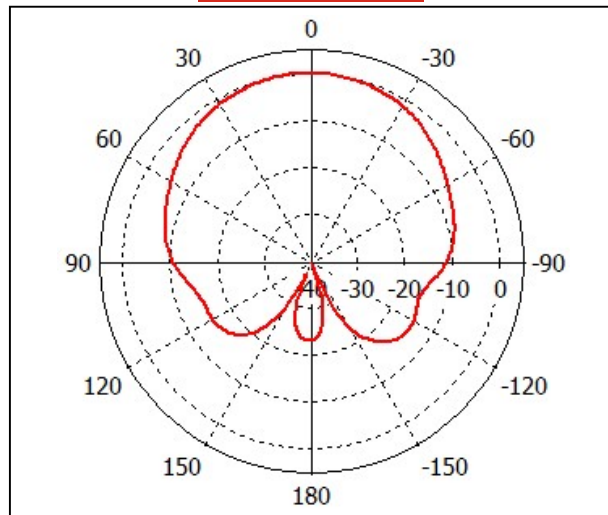
6 GHz PHI 90



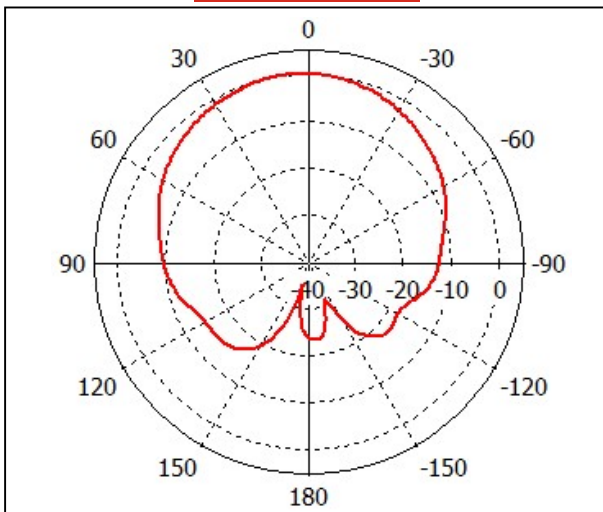
8 GHz PHI 0



8 GHz PHI 90



10 GHz PHI 0



10 GHz PHI 90

