

18 - 42 GHz Circular Polarised Spiral Antenna



Antenna shown with PTFE Radome



Antenna shown without Radome

Model Number QSPCP18-42KRA# # = LH or RH

- Supplied with or without mounting flange
- Low Axial Ratio
- Suitable for use as a reflector feed
- Applications include use in EW radar detection, direction finding, spectrum monitoring or surveillance

The QSPCP18-42K ultra wide-band 18 - 42 GHz circular polarised spiral antenna is ideal for EW radar detection and direction finding due to its broad beamwidth and low squint and axial ratio. Its compact size combined with its wideband performance and either left or right hand circular polarisation capability makes this antenna extremely versatile.

Due to the constant phase centre and wide bandwidth of the spiral antenna, it is ideally suited for use as a reflector feed.

Accessories

QTP-A	- Economy Tripod
QTP-B	- Standard Tripod

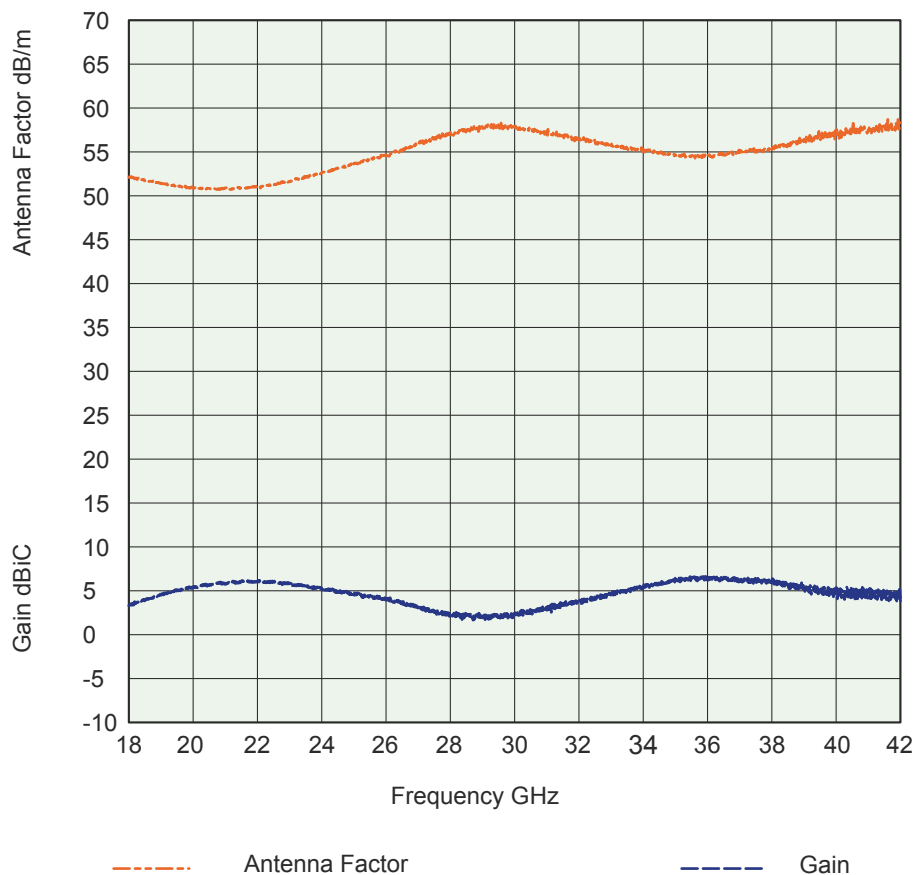
Other models available

QSPCP18-42K#	- 18 - 42 GHz Spiral, no Radome
QSPCP2-18SLH	- 2 - 18 GHz Left Hand CP
QSPCP2-18SRH	- 2 - 18 GHz Right Hand CP

Typical Specification

Frequency	18 - 42 GHz
Gain	1.5 to 7 dBiC
3dB Beamwidth	85° - 40°
Typical VSWR	< 2.0 : 1
Axial Ratio	< 2 dB on boresight
Construction	Aluminium / Plated Brass
Power Handling	2W c.w.
Dimensions	35.4 mm diameter x 52 mm length (With Mounting Plate)
Connector Type	K type jack (2.92 mm)
Mounting	6 holes, diameter 3.1 mm, 30 mm p.c.d
Weight	32g

Typical Gain / Antenna Factor



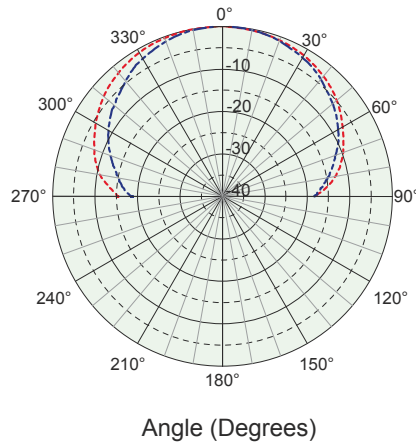
Antenna Patterns

Key

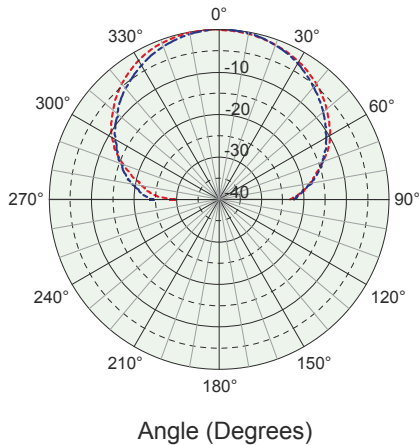
---	Horizontal
---	Vertical

Notes: The horizontal and vertical patterns refer to the orientation of the antenna feedline. Both plots are normalised to each other. Antenna patterns are shown for an antenna with lensed radome & absorber placed around the flange.

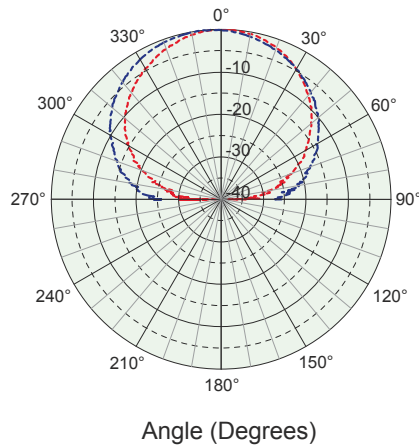
18 GHz



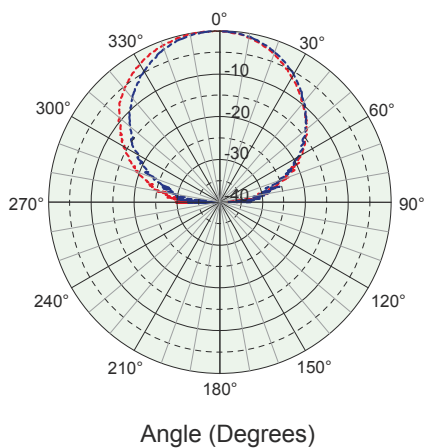
24 GHz



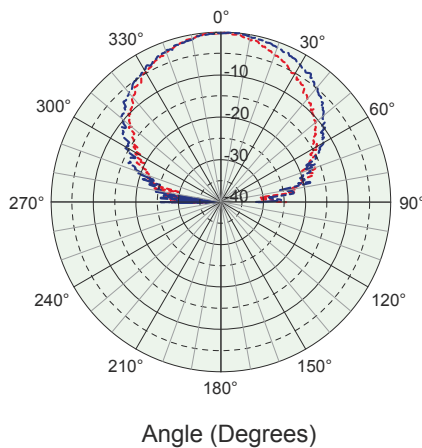
30 GHz



36 GHz



42 GHz



Designed and Manufactured in England to the Highest Standards

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