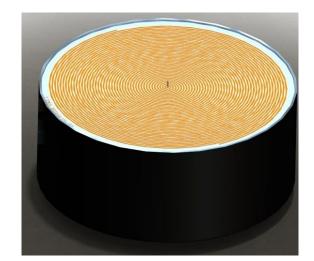


VERSION: 1.0



Cavity Backed Spiral Antenna

1000 - 6000 MHz

Product Code: SPRL-A0027

SPECIFICATIONS:

Product codes:	
SPRL-A0027	Standard LHCP version
SPRL-A0027-01	Standard RHCP version
SPRL-A0027-02	LHCP version, with radome
SPRL-A0027-03	RHCP version, with radome
Electrical	
Frequency range	1000 – 6000 MHz
Gain	3 – 5 dBi typical (in band) (see graph)
Beamwidth	70° (typical)
Polarisation	
SPRL-A0027/-02	LHCP
SPRL-A0027-01/-03	RHCP
Axial ratio	< 3 dB
Nominal impedance	50 Ω
VSWR	< 2.5:1
Power handling	10 W CW
Connector	SMA(f)
Mechanical:	
Dimensions (I x d)	Ø 163 mm x 72 mm
Total mass	0.5 kg
Mounting	PCD ø140 mm (6 x M4) on back plane of
	antenna
Colour	Chromated aluminium. Painted on request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -41 °C to +71 °C.
	Operation -31 °C to +55 °C
Weatherproofing	IP 66 water resistant (SPRL-A0027-02/-03)
Exposed materials	Chromated aluminium
	Conformally coated PCB (on SPRL-A0027/-
	01)
	Epoxy glass (on SPRL-A0027-02/-03)

PRODUCT FEATURES:

- LHCP or RHCP antenna
- Compact
- Low axial ratio
- Low VSWR
- Wideband
- Low pattern re-entrance

PRODUCT OVERVIEW:

SPRL-A0027 is a wideband left-hand/right-hand circularly polarised cavity backed antenna. It is designed for ECM, surveillance and telemetry applications, and, exhibiting low pattern re-entrance and good phase stability for the entire range of its operating band, is extremely suitable for direction finding applications of various types.

SPRL-A0027 features a low VSWR and high gain over the operating band and has compact and lightweight package. Operation from as low as 500 MHz is possible with reduced performance.

SPRL-A0027-02/-03 provides a weatherproof radome to cover the otherwise exposed PCB radiator and is for use when the antenna is to be mounted outdoors and not in a protected system enclosure.



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GAIN THE ADVANTAGE

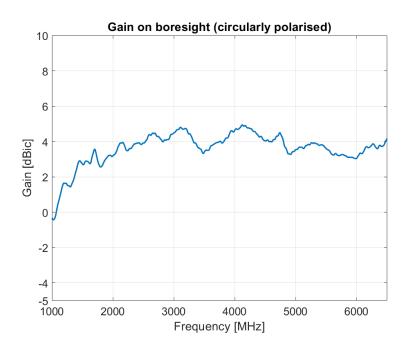
Cavity Backed Spiral Antenna

1000 - 6000 MHz

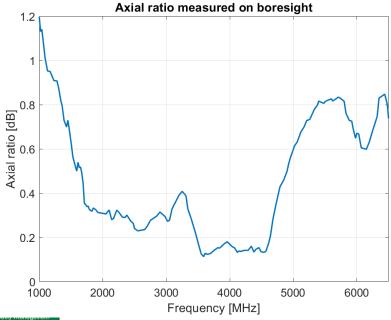
Product Code: SPRL-A0027 VERSION: 1.0

ELECTRICAL PERFORMANCE PLOTS:

GAIN ON BORESIGHT:



AXIAL RATIO:





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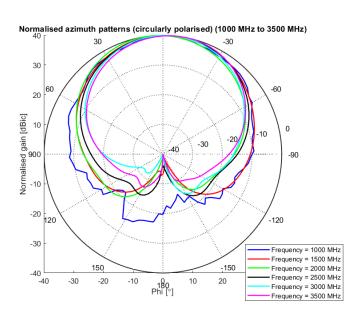
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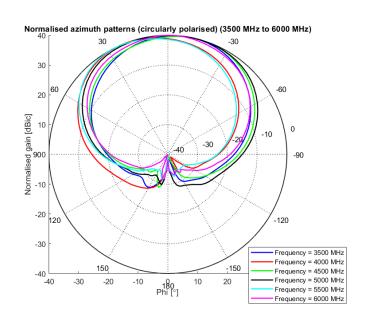
Cavity Backed Spiral Antenna

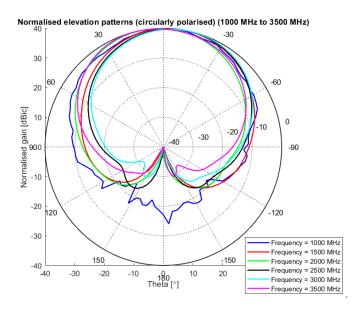
1000 - 6000 MHz

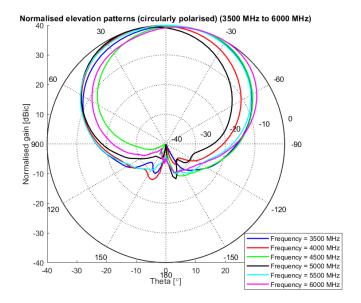
Product Code: SPRL-A0027 VERSION: 1.0

NORMALISED ANTENNA PATTERNS:













Cavity Backed Spiral Antenna

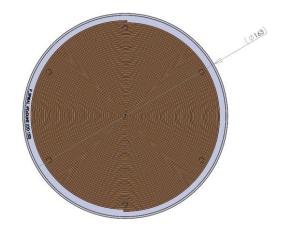
1000 - 6000 MHz

Product Code: SPRL-A0027 **VERSION: 1.0**

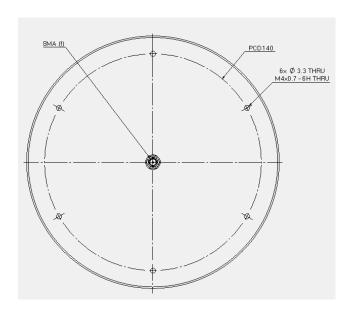
MECHANICAL INTERFACE DRAWINGS:

OUTLINE DIMENSIONS:

MOUNTING DIMENSIONS:









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