

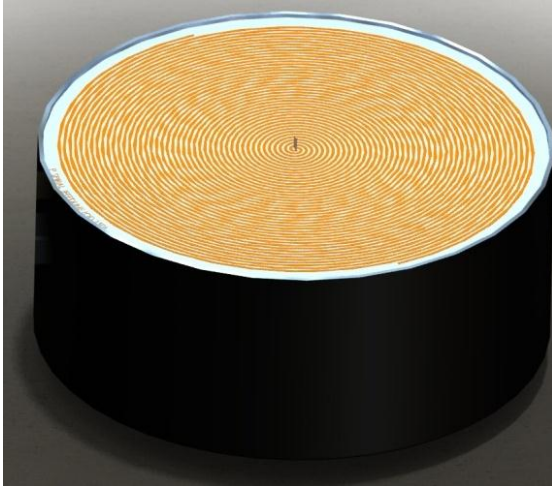
LHCP Cavity Backed Spiral Antenna

1000 – 4000 MHz

Product Code: SPRL-A0001

VERSION: 2.1

SPECIFICATIONS:



Product codes:	
SPRL-A0001	Standard version, no radome
SPRL-A0001-01	PCB protected by weatherproof radome
Electrical	
Frequency range	1000 – 4000 MHz
Gain	3 – 7 dBi typical (in band) (see graph)
Azimuth pattern	70° (typical)
Elevation pattern	70° (typical)
Polarisation	LHCP
Axial ratio	< 3 dB
Nominal impedance	50 Ω
VSWR	< 2.5:1
Power handling	10 W CW
Connector	SMA(f)
Mechanical	
Dimensions (L x D)	Ø 163 mm x 67 mm
Total mass	0.5 kg
Mounting	PCD ø140 mm (6 x M4) on back plane of antenna
Colour	Alodined aluminium. Painted on request
Environmental	
Temperature range	Storage: -41 °C to +71 °C. Operation -31 °C to +55 °C
Weatherproofing	IP 66 water resistant (SPRL-A0001-01)
Exposed materials	Alodined aluminium Conformally coated PCB (on SPRL-A0001) Epoxy glass (on SPRL-A0001-01)

PRODUCT FEATURES:

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

PRODUCT OVERVIEW:

SPRL-A0001 is a wideband left-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-A0001 features a low VSWR and high gain over the operating band, and has compact and lightweight package. Operation from as low as 500 MHz to 6 GHz is possible with reduced performance.

SPRL-A0001-01 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.



sales@poynting.co.za
www.poynting.co.za

Poynting Antennas has a policy of continuous improvement and hence specifications may change without notice

DEFENCE AND SPECIALISED

LHCP Cavity Backed Spiral Antenna

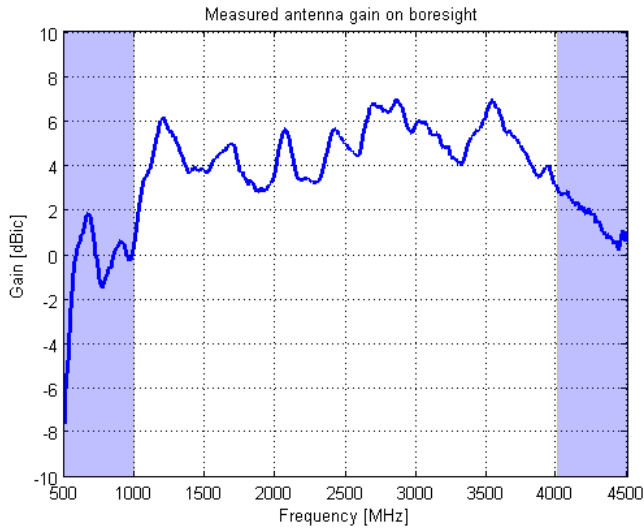
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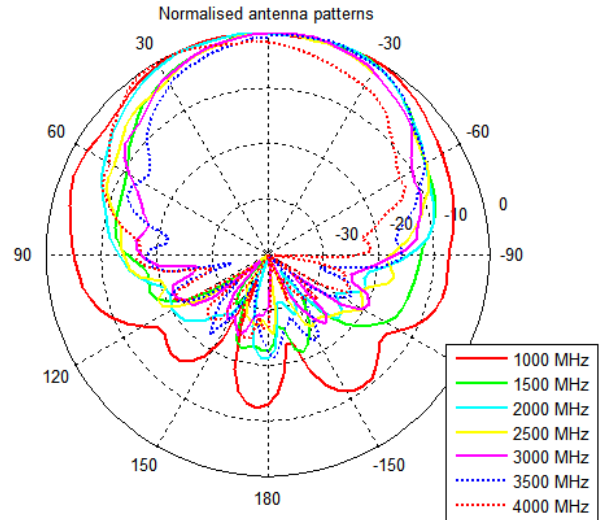
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ELECTRICAL PERFORMANCE PLOTS:

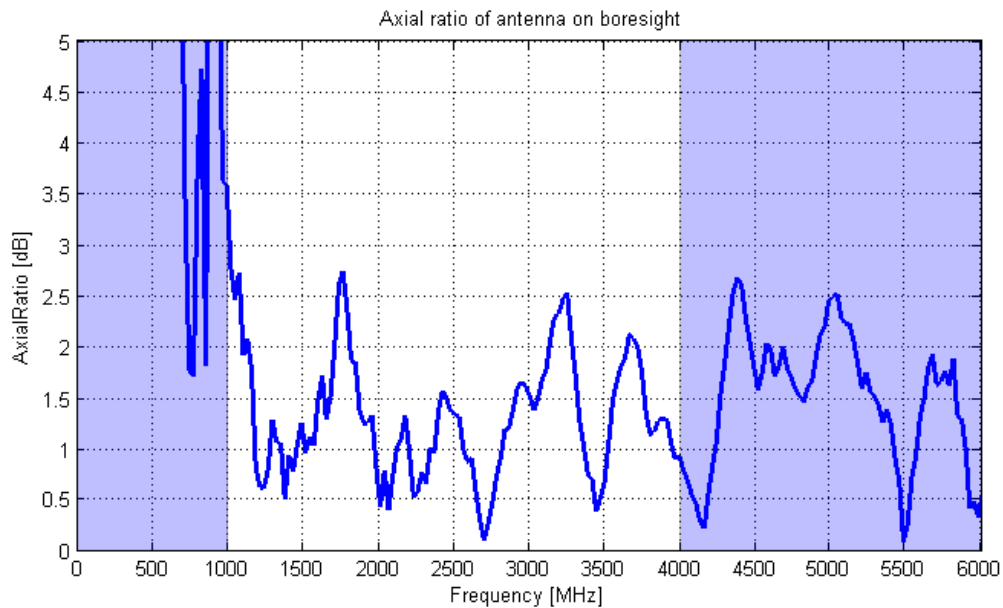
GAIN ON BORESIGHT



NORMALISED ANTENNA PATTERNS



AXIAL RATIO



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**DEFENCE AND
SPECIALISED**

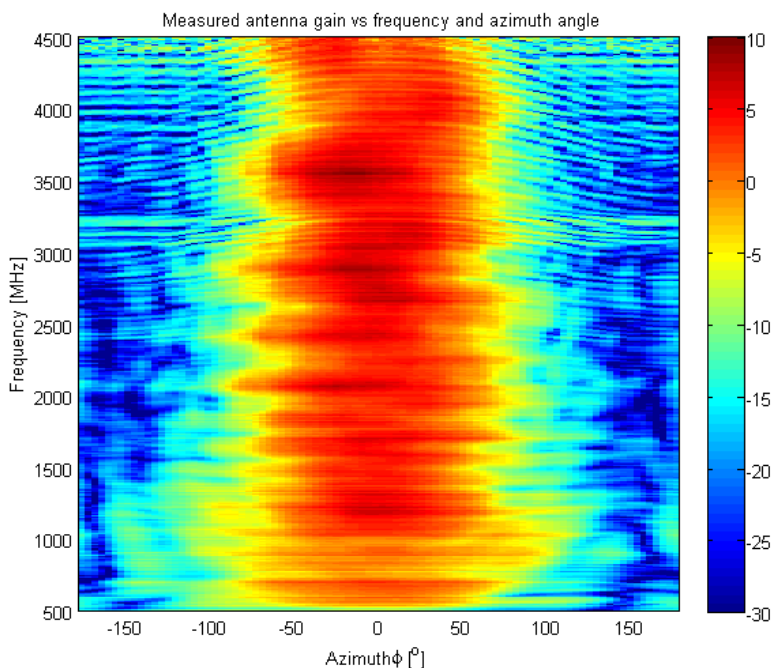
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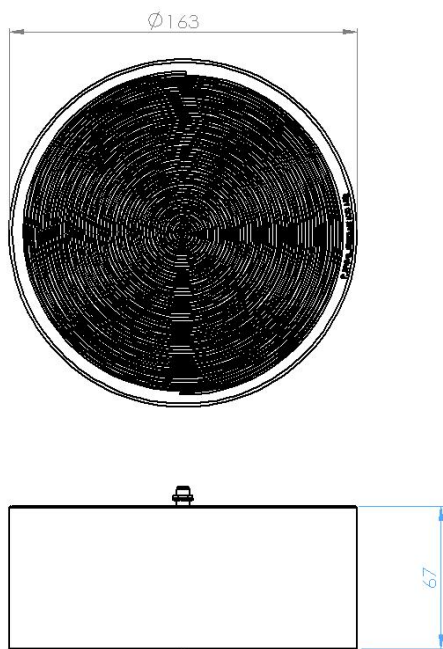
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GAIN PATTERN



MECHANICAL INTERFACE DRAWINGS:

OUTLINE DIMENSIONS



MOUNTING DIMENSIONS

