

Dual Port Circular Polarised Antenna

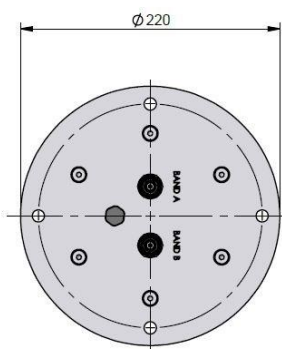
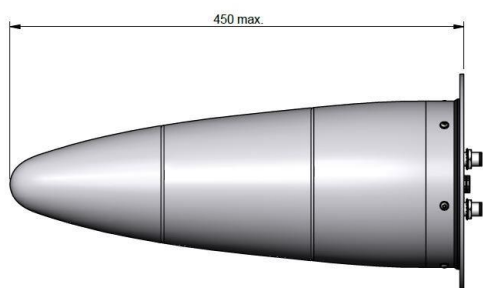
900 – 6000 MHz

VERSION: 2.0

Product Code: SPRL-A0010

SPECIFICATIONS:

Product Codes:		
SPRL-A0010-01	RHCP (Band A) and LHCP (Band B) antenna	
SPRL-A0010-02	LHCP (Band A) and RHCP (Band B) antenna	
Electrical:		
Frequency range:	900 – 2500 MHz	
Band A	2500 – 6000 MHz	
Band B		
Gain:	> 6 dBic (typical)	
Beamwidth:	55° (typical)	
Feed power handling:	100 W CW	
Band A	50 W CW	
Band B		
	SPRL-A0010-01	SPRL-A0010-02
Polarisation:	RHCP	
Band A	LHCP	
Band B	LHCP	RHCP
Nominal impedance:	50 Ω	
VSWR:	< 2.0:1	
Connector:	2 x N-type female	
Mechanical:		
Overall height:	450 mm	
Diameter:	165 mm (Radome)	
	220 mm (Mounting flange)	
Weight:	< 4 kg including bracket	
Material:	Aluminium, Stainless steel, Acetal, PTFE, Nylon, ABS, copper, brass	
Colour	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	



PRODUCT OVERVIEW:

SPRL-A0010 is a dual port conical spiral, right-hand circularly polarised antenna designed operating in the 900 to 2500 MHz and 2500 to 6000 MHz bands. The antenna provides broad beam coverage without nulls or reduction in performance.

The antenna features a low VSWR and high gain over both operating bands with a light weight, yet robust radome to protect the radiator.

PRODUCT FEATURES:

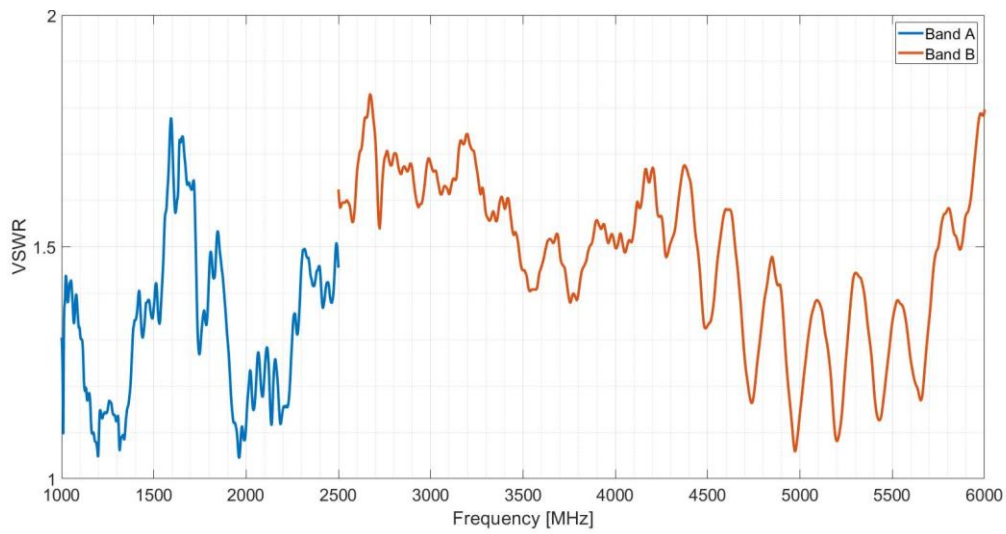
- LHCP and RHCP antenna
- High gain
- High power
- Low VSWR

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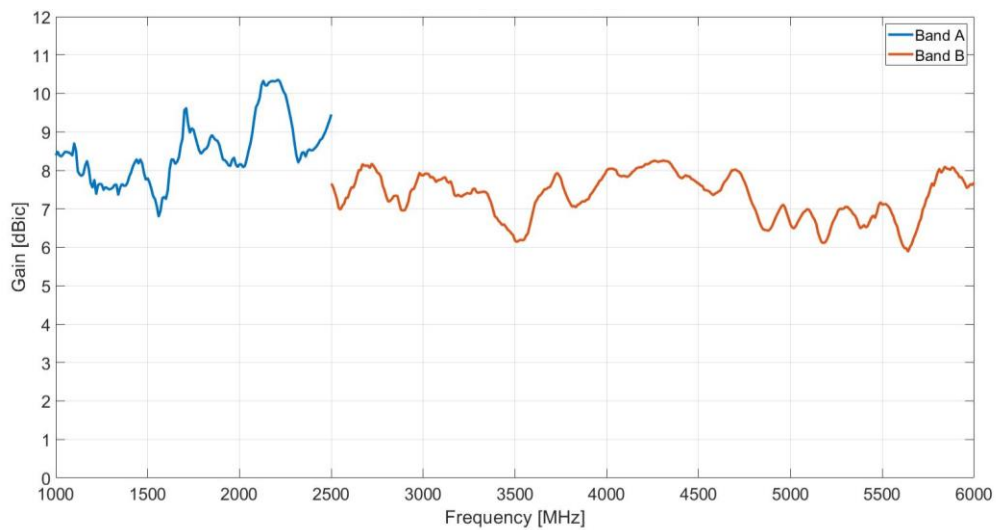
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Typical VSWR of the SPRL-A0010



Typical Gain of the SPRL-A0010

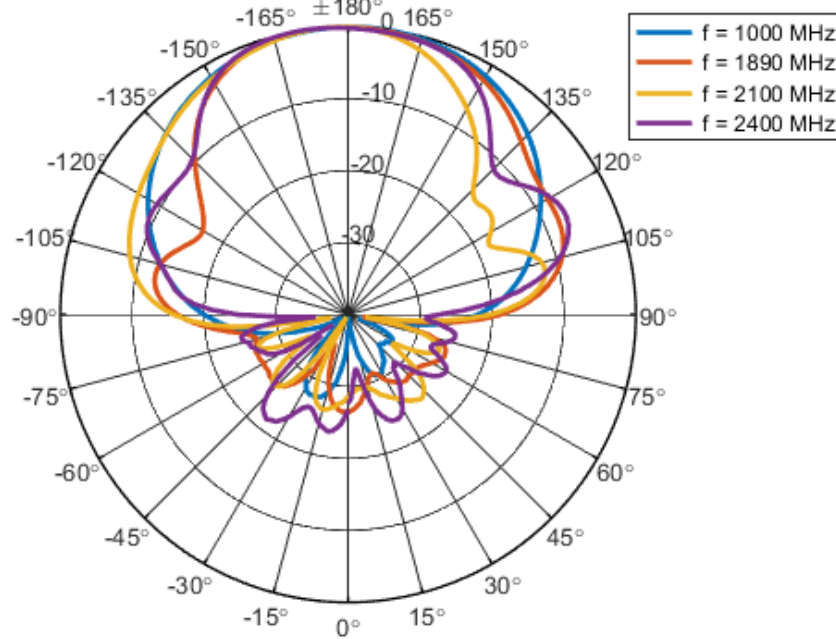
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900 – 6000 MHz

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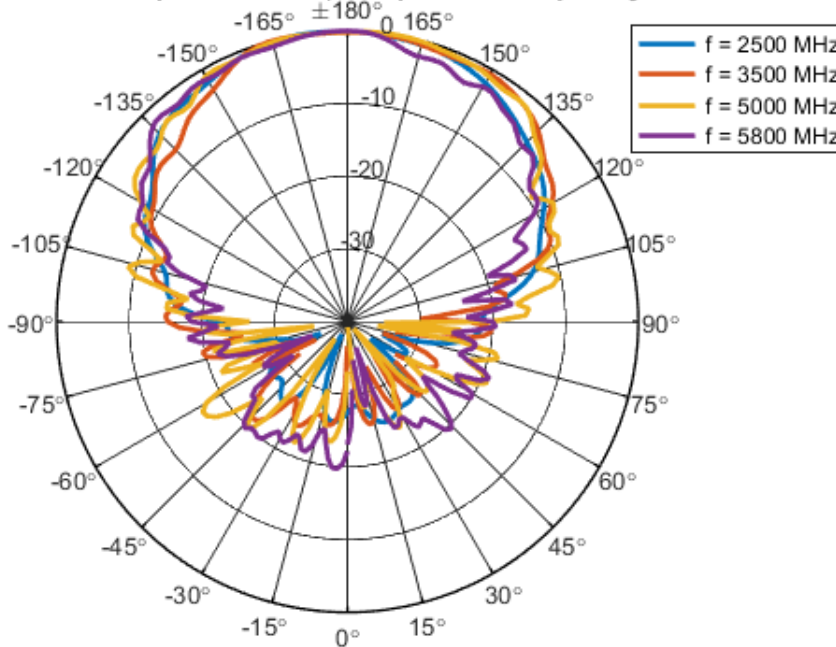
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Normalised amplitude over ϕ at specified frequency values



Normalised band A radiation patterns of the SPRL-A0010

Normalised amplitude over ϕ at specified frequency values



Normalised band B radiation patterns of the SPRL-A0010