

Electrical Features

SP91510-RHCP¹
SP91510-LHCP²

Type	Sector Antenna
Bandwidth	902 up to 928 MHz
Nominal Gain	9.4 dBi
Nominal Impedance	50 Ohms
V.S.W.R (Max)	< 1.3:1
Polarization	Right ¹ / Left ² – Hand Circular Polarization
Front-to-Back Ratio	> 30 dB
Axial Ratio (Max)	< 1.5
-3 dB Beamwidth @ 915 MHz – Horizontal Plane	60°
-3 dB Beamwidth @ 915 MHz – Vertical Plane	60°
Maximum Input Power	10 W
Lighting Protection	DC Ground



Mechanical Characteristics

Connector Type	N Female
Weight	1.5 Kg
Wind Area	0.06 m ²
Maximum Dimensions (H X W X D)	300 X 300 X 100 mm
Structure	Aluminum 5052 H34 Naval Alloy
Radome	Anti-UV PE
Stand	Galvanized Steel
Assembly	1 1/4 in Round Pipe



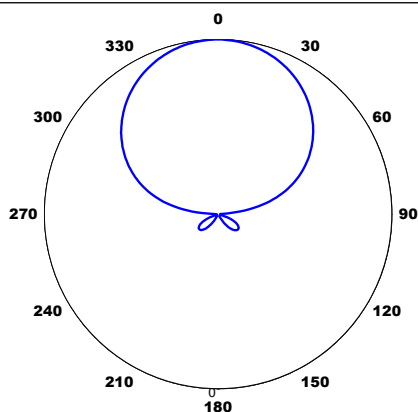
SP91510-RHCP¹ SP91510-LHCP²

Environment*

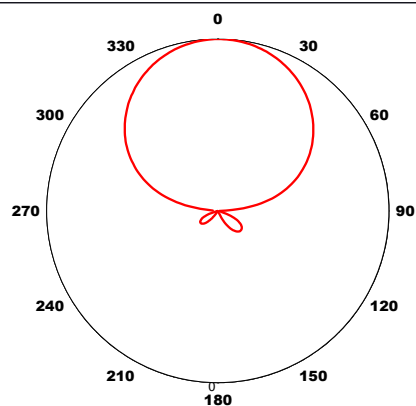
Test	Standard	Duration	Temperature / Classification	Note
Maximum temperature	IEC 68-2-1		-55°C	
Minimum temperature	IEC 68-2-2		+71°C	
Temperature cycling	IEC 68-2-14	72 h		
Thermal shock out of operation		1 h	-30°C a +70° C	Ramp 30° C/min
Humidity	ETS EN300-2-4 T4.1E	144 h		95%
Water jet resistance	IEC 529		IP67	
Resistance to dust			IP67	
Resistance to solar radiation	ASTM G53	1000 h		
Ozone resistance	ETSI 300			
Flammability	UL 94			Class HB

*Test environment - climatic chamber -85°C a 180°C with vibration system and Humidity Ramp.

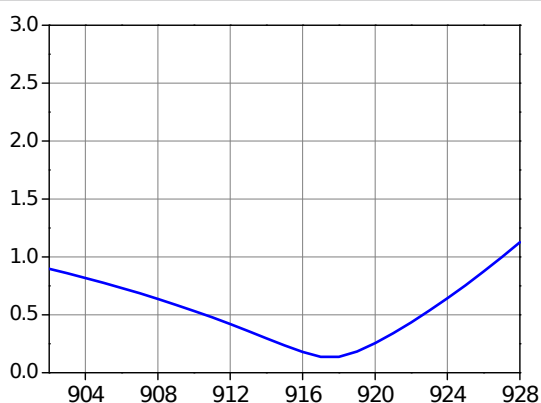
Radiation Pattern @ 915 MHz – Horizontal Plane



Radiation Pattern @ 915 MHz – Vertical Plane



Axial Ratio (dB) vs Frequency (MHz)



VSWR vs Frequency (MHz)

