



Spiral Antenna S08C101-H0

S08C101-H0 is a left hand circularly polarized spiral antenna, designed for the application where gain requirements are at premium in the frequency band of 1-18GHz.

The antenna provides excellent return loss, gain and axial ratio over the full 1 - 18GHz operation band and is ideal for satisfying challenging land , sea and airborne applications which include radar warning receiver systems.

ELECTRICAL SPECIFICATION

Frequency Range	: 1-18GHz
VSWR	: 2.5:1
Beam Width	: 80° Nominal
Beam squint	: 6° Max
Gain	: -16dBLi@1GHz, -6dBLi@2GHz 0dBLi@4-18GHz.
Back Lobe Level	: -20dB Max
Axial Ratio	: 3dB at 1GHz, 5dB at $\pm 45^\circ$ off Axis : 2dB at 2-18GHz ON Axis : 4dB at $\pm 45^\circ$ OFF Axis
Radome	: Hemispherical
Polarization	: LHCP (Left Hand Circular)
RF Power	: 2W CW
Static Protection	: By DC Grounding



ENVIRONMENTAL SPECIFICATION

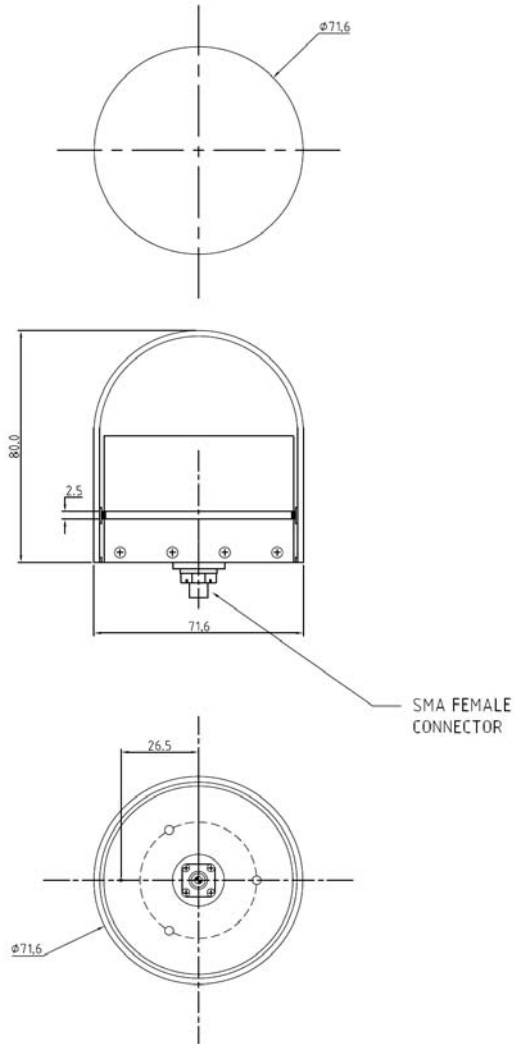
Temperature Range	: -54°C to +180°C
Altitude	: 50,000 Feet
Generally in accordance with MIL-STD-810	

MECHANICAL SPECIFICATION

Weight	: 240 Grams (Max)
Height	: 80 mm (Max)
Colour	: Black
Finish	: Semi gloss
Connector	: SMA Female
Dimension	: Refer Drawing Overleaf

Contact for custom requirements

DRAWING SPECIFICATION FOR SPIRAL ANTENNA S08C101-H0



All dimensions are in mm
Drawing not to scale

Three fixing hole with 8-32NC X 10 mm
deep equally spaced 40PCD



Spectrum Antenna & Avionics Systems (P) Ltd, Cochin, India.

For installation use factory supplied drawings and instructions

Specifications are subjected to change without prior notice

Contact for custom requirements

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www.spectrumantennas.com