

VERDANT JK S10 L

Cavity Backed Spiral Antenna

JK S10 L is a wide band circularly polarized cavity backed spiral antenna designed to withstand very high service temperature with optimum electrical performance. The antenna is encased within an electrically paired radome. The antenna is designed to be used with airborne ESM and ECM systems. The antenna is qualified for supersonic platforms and is designed to withstand high temperature up to 200°C.



SPECIFICATIONS

ELECTRICAL

Frequency	1-18 GHz
VSWR	≤ 2.5: 1
Polarization	Circular (LHCP)
Gain (Nominal)	-17 dBi C at 1 GHz -3 dBi C at 2 GHz 0 dBi C at 3-18 GHz
Gain Tracking (For a batch of antennas)	±1 dB On bore sight ±2 dB at ±45°
3dB Beam width	55° -110° over 100 % of the Band
10 dB Beam width	110° to 200° over 80 % of the Band 100° to 220° over 100% of the Band
Axial Ratio	Bore Sight : ≤ 3 dB ± 45° OFF Axis : ≤ 6.5 dB
Beam Squint	≤ 6° for 80% of band ≤ 10° for 100% Band
Back lobe Level	≤ -20 dB for 3-18 GHz ≤ -12 dB for <3 GHz
Power	≥ 2 W

MECHANICAL

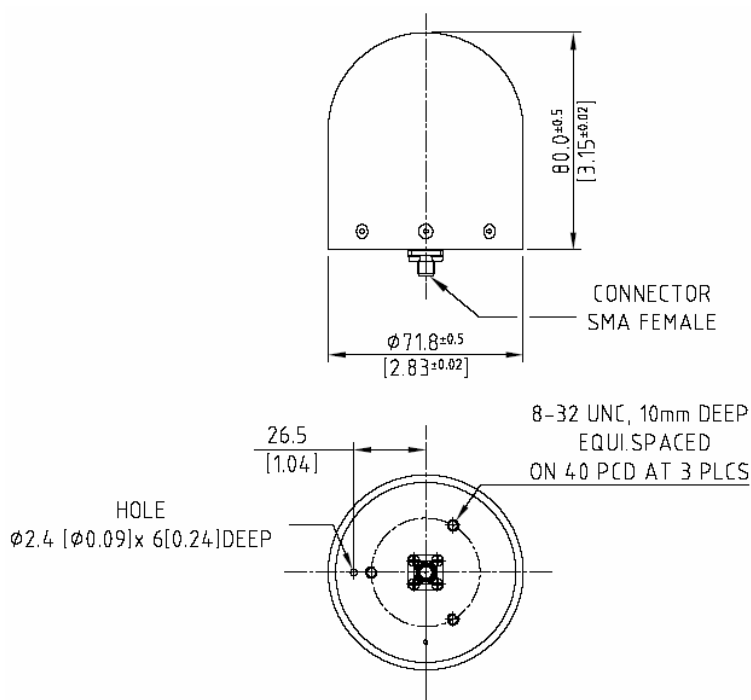
Weight	300 g Max (With radome)
Dimension	Diameter: 71.8 ± 0.5 mm Height: 80 ± 0.5 mm (without connector)
RF Connector	SMA Female
Finish	Antistatic rain erosion resistant semi gloss grey/black

ENVIRONMENTAL

Temperature	-54 °C to +190°C
Altitude	65, 000 feet

*Contact us for your customized requirements

Tests in accordance with MIL 810 F



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*All data contained herein is subject to change without notice



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