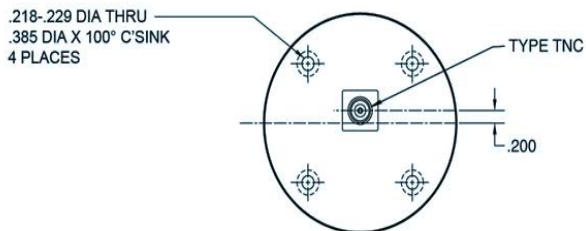
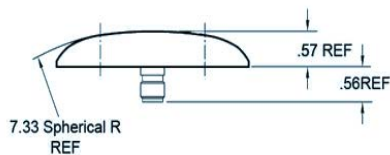
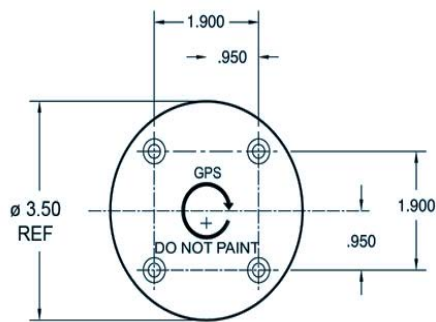


GPS L1 Antenna S67-1575-49



Please Note: For REFERENCE ONLY
Contact Sensor Systems for latest drawing

Description

S67-1575-49: L1 active GPS antenna that operates at 1575.42 ± 2 MHz. The spherical radius molded radome provides enhanced protection against rain, ice and lightning strikes. It features a 40 dB gain preamplifier/filter assembly.

This antenna is ideal for airborne, marine, ground vehicles and manpack installation.

Federal & Military Specs: TSO C129, DO-160C, MIL-C-5541, MIL-E-5400 and MIL-STD-810.

Specifications

Electrical

Frequency	1572.42 ± 2 MHz
VSWR	$\leq 2.0:1$
Polarization	RCHP
Gain Coverage (min)	-1.0 dBic $0^\circ \leq \theta \leq 75^\circ$ -2.5 dBic $75^\circ \leq \theta \leq 80^\circ$ -4.5 dBic $80^\circ \leq \theta \leq 85^\circ$ -7.5 dBic $\theta = 90^\circ$ @ Horizon
Gain (Preamp)	40.0 ± 3 dB
Impedance	50Ω
Power Handling	100 mWatt (+30 dBm)
Voltage	+4 to +24 VDC
Axial Ratio	≤ 3 dBic @ Zenith
Out of Band Rejection	35 dB @ 1625 MHz

Mechanical

Weight	5 oz.
Height	.60 in.
Diameter	3.50 in.
Material	6061-T6 Aluminum / Thermoset Plastic
Finish	Gloss White
Connector	TNC Female

Environmental

Temperature	-55°C (-67°F) to $+85^\circ\text{C}$ ($+185^\circ\text{F}$)
Altitude	-100 ft. to 55,000 ft.



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