

L1/L2 Active GPS S67-1575-96



Description

This dual-band L1/L2 active GPS antenna provides low-noise coverage at 1227.6 MHz and 1575.42 MHz with a VSWR of 2.0:1 and 40 dB gain LNA. The antenna requires +4 to +24 VDC.

The **S67-1575-96**'s amplifier is integrated under the radome. Additional filtering provides significant out-of-band rejection and reduced possibility of saturation by non-GPS signals. DC bias is provided via the coax connector.

Federal & Military Certifications:

FAA TSO C129, DO-160C, MIL-E-5400, MIL-STD-810 and AMS-C-5541.

Specifications

Electrical

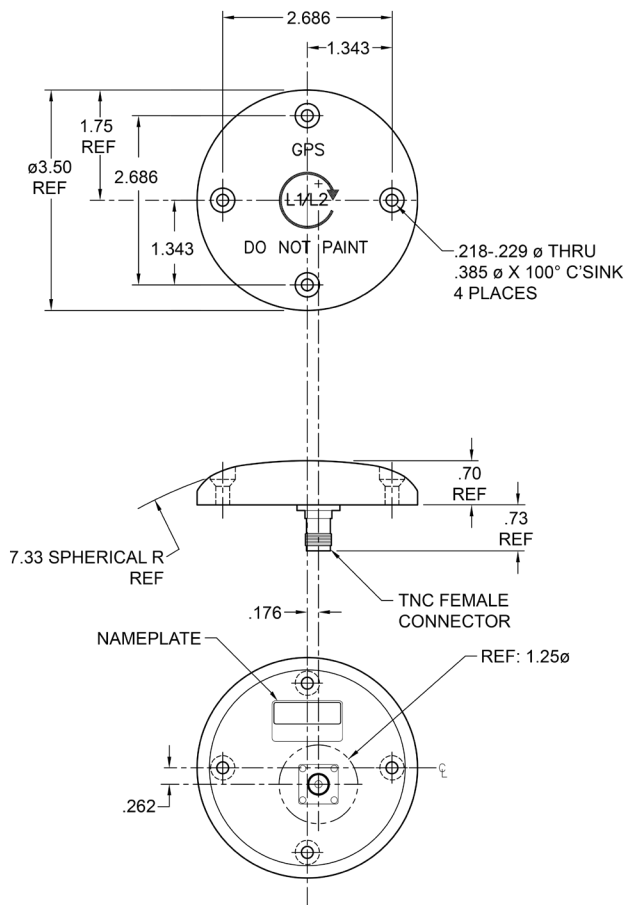
Frequency	L1: 1565 to 1858 MHz L2: 1217 to 1237 MHz
VSWR	$\leq 2.0:1$
Gain (antenna)	-1.0 dBic $0^\circ \leq \Theta \leq 75^\circ$ -2.5 dBic $75^\circ \leq \Theta \leq 80^\circ$ -4.5 dBic $80^\circ \leq \Theta \leq 85^\circ$ -7.5 dBic $\Theta = 90^\circ$ @ Horizon
Gain (Preamplifier)	40 ± 4 dB
Polarization	RCHP
Impedance	50Ω
Power	1 Watt
Supply Voltage	+4 to +24 VDC @ 75 mA Max.
Axial Ratio	≤ 3.0 dB @ Zenith
Out of Band Rejection	> 6 dB @ 1177 MHz > 10 dB @ 1277 MHz > 20 dB @ 1525 MHz > 25 dB @ 1625 MHz

Mechanical

Weight	7 oz.
Height	.70 in.
Diameter	3.50 in.
Material	6061-T6 Aluminum Alloy / Thermoset Plastic
Finish	Skydrol Resistant Enamel
Connector	TNC Female

Environmental

Temperature (Operating)	-62°C (-80°F) to +95°C (+203°F)
Altitude	-1500 to 70,000 ft.



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



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