

DESCRIPTION

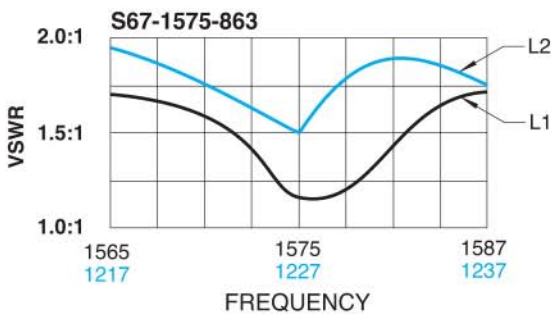
S67-1575-863: Dual-band L1/L2 GPS active antenna provides coverage at 1227.6 MHz and 1575.42 MHz with a VSWR of 2.0:1. The 26.5 dB amplifier operates in a voltage range of 3.3 to 5.0 volts DC and is integrated under the radome. Additional filtering provides significant out-of-band rejection and reduced possibility of saturation by non-GPS signals. DC bias is provided through the co-ax connector.

The spherical-radius, molded radome provides enhanced protection against rain, ice, and lightning strikes. Qualified for high-speed military aircraft.

Designed for use with PLGR, DAGR, and MAGR systems.

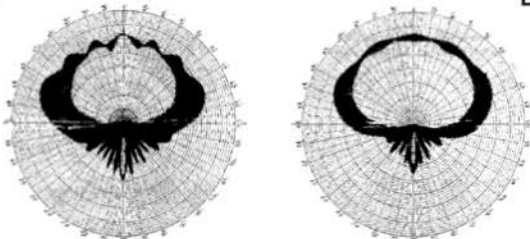
FEDERAL & MILITARY SPECS: MIL-STD-810, MIL-HDBK-5400, DO-160C, TSO-C129.

PERFORMANCE



RADIATION PATTERNS

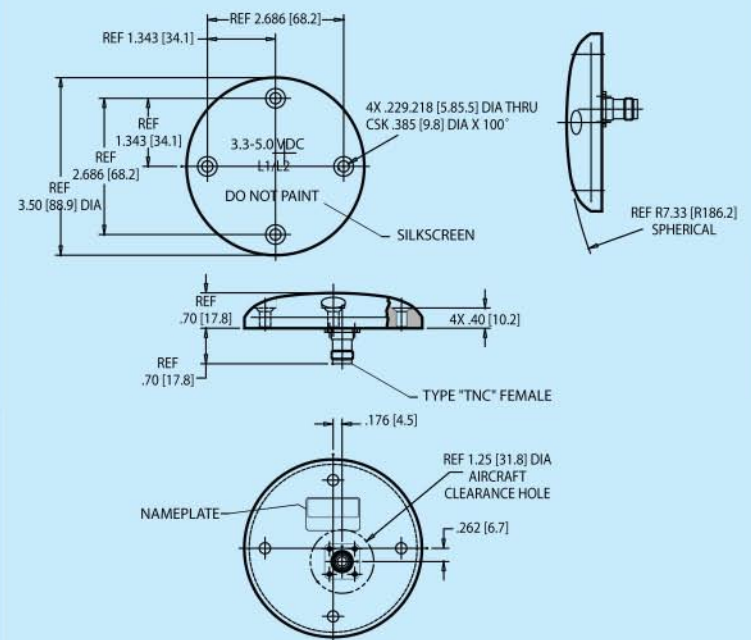
1575 MHz L1 1227 MHz L2



SPECIFICATIONS		GPS
MODELS	S67-1575-863	
ELECTRICAL		
Frequency	1565 - 1585 MHz (L1), 1217-1237 MHz (L2)	
VSWR	2.0:1	
Polarization	RHCP	
Impedance	50 ohms	
Axial Ratio	3 dBic @ Zenith	
Gain (Antenna)	-1.0 dBic $0^\circ \leq Q \leq 75^\circ$ -2.5 dBic $75^\circ < Q \leq 80^\circ$ -4.5 dBic $80^\circ < Q \leq 85^\circ$ -7.5 dBic $Q = 90^\circ$ @ HORIZON	
Gain (Preamp)	26.5 dB ± 3 dB	
Out-Of Band-Rejection	1177 MHz > 6 dB; 1277 MHz > 10 dB; 1525 MHz > 20 dB; 1625 MHz > 25 dB	
Power Handling	1 watt	
Voltage	+3.3 TO +5.0 VDC @ 65 mA MAX	
Lightning Protection	DC grounded	
MECHANICAL		
Weight	7 oz.	
Height	.70 in.	
Diameter	3.50 in.	
Material	6061-T6 aluminum / thermoset plastic	
Finish	Skydrol-resistant enamel	
Connector	TNC	
ENVIRONMENTAL		
Temperature	-62°C (-80°F) TO +95°C (+203°F)	
Vibration	10 G's	
Altitude	70,000 ft.	

OUTLINE DRAWING

S67-1575-863



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