



DESCRIPTION

S67-1575-86: 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. 26.5 dB gain LNA. Requires +4 to +24 VDC. The 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 through the coax connector.

NSN: 5985-01-458-1780

FEDERAL & MILITARY SPECS: FAA TSO-C129, DO-160C, MIL-STD-810, MIL-DTL-5541, MIL-E-5400.

SPECIFICATIONS	
MODEL	S67-1575-86
ELECTRICAL	
Frequency	1565-1585 MHz (L1), 1217-1237 MHz (L2)
VSWR	2.0:1
Polarization	RHCP
Impedance	50 ohms
Axial Ratio	3 dBic @ Zenith
Antenna Gain	-1.0 dBic $0^\circ \leq \theta \leq 75^\circ$ -2.5 dBic $75^\circ < \theta \leq 80^\circ$ -4.5 dBic $80^\circ < \theta \leq 85^\circ$ -7.5 dBic $\theta = 90^\circ$ @ Horizon
Gain (Preamp)	26.5 ± 3 dB
Power Handling	1 watt
Voltage	+4 to +24 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 Polyurethane Enamel
Connector	TNC Female
ENVIRONMENTAL	
Temperature	-62°C (-80°F) to +95°C (+203°F)
Vibration	10 Gs
Altitude	70,000 ft.

PERFORMANCE

