

# GPS S67-1575-49



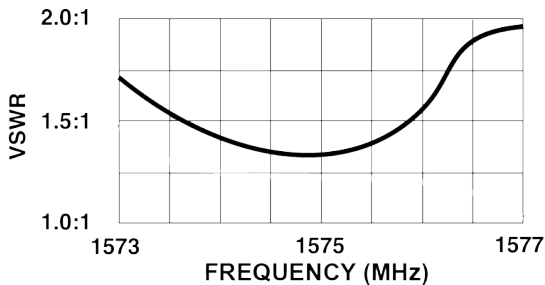
## DESCRIPTION

**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.

## PERFORMANCE



## SPECIFICATIONS

ELECTRICAL	
Frequency	1575.42 ± 2 MHz
VSWR	≤ 2.0:1
Gain (Antenna)	≤ 3.0 dB @ Zenith
Gain Coverage (Antenna)	-1.0 dBic 0° ≤ θ ≤ 75° -2.5 dBic 75° ≤ θ ≤ 80° -4.5 dBic 80° ≤ θ ≤ 85° -7.5 dBic θ = 90° @ Horizon
Gain (Preamplifier)	40.0 ± 3 dB
Polarization	RHCP
Impedance	50 Ω
Power Handling	100 mWatt (+30 dBm)
Supply Voltage	+4 to +24 VDC @ 45 mA Max.
Axial Ratio	≤ 3.0 dB @ Zenith
Out of Band Rejection	35 dB @ 1625 MHz
Lightning Protection	DC Grounded
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°C (+185°F)
Altitude	-100 ft. to 55,000 ft.
Vibration	10 G's

