



# GPS S67-1575-Series

Vehicle/Manpack



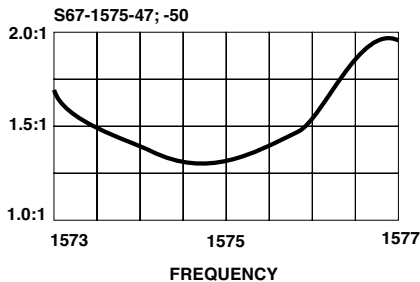
## DESCRIPTION

**S67-1575-50:** Small GPS antenna for use on vehicle, manpack or hand-held application. Ideal for limited space installation. Universal single hole mounting, threaded connector and nut.

**S67-1575-47:** Same as (-50) except with internal 26 dB integrated amplifier. Designed for long cable remote installation. Includes band pass filtering. DC bias provided through the coaxial connector.

**FEDERAL AND MILITARY SPECS:** DO-160, MIL-STD-810, MIL-C-5541, MIL-E-5272, MIL-E-5400.

## PERFORMANCE



RADIATION PATTERN

## SPECIFICATIONS

	GPS	
	S67-1575-50	S67-1575-47
<b>ELECTRICAL</b>		
Frequency .....	1575.42 MHz	1575.42 MHz
VSWR .....	1.5:1	2.0:1
Polarization .....	RHCP	RHCP
Impedance .....	50 ohms	50 ohms
Power Handling .....	1 watt	100mW / (+20dBm)
Antenna Gain (Typ) .....	3 dBic@Zenith	
Gain Coverage (min) ...	$-1.0 \text{ dBic} \quad 0^\circ \leq \theta \leq 75^\circ$ $-2.5 \text{ dBic} \quad 75^\circ < \theta \leq 80^\circ$ $-4.5 \text{ dBic} \quad 80^\circ < \theta \leq 85^\circ$ $-7.5 \text{ dBic} \quad \theta = 90^\circ \text{ @ Horizon}$	
Gain (preamp) .....	Passive	26.0 dB
Voltage .....		+4 to 24 VDC
Lightning Protection .....	DC grounded	
<b>MECHANICAL</b>		
Weight .....	3 oz.	
Height .....	.48 in.	.65 in.
Material .....	6061-T6 aluminum / thermoset plastic	
Finish .....	Skydrol resistant enamel	
Connector .....	TNC	
<b>ENVIRONMENTAL</b>		
Temperature .....	-67°F to +185°F	
Vibration .....	10 G's	
Altitude .....	20,000 ft.	

## OUTLINE DRAWING

