



GPS S67-1575-Series

Vehicle/Manpack



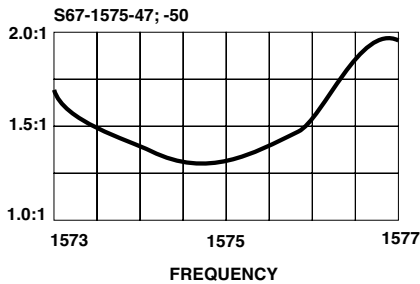
DESCRIPTION

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
ELECTRICAL		
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	
MECHANICAL		
Weight	3 oz.	
Height48 in.	.65 in.
Material	6061-T6 aluminum / thermoset plastic	
Finish	Skydrol resistant enamel	
Connector	TNC	
ENVIRONMENTAL		
Temperature	-67°F to +185°F	
Vibration	10 G's	
Altitude	20,000 ft.	

OUTLINE DRAWING

