



DESCRIPTION

S67-1575-20: L1 GPS antenna operating at 1575.42 MHz. Spherical radius molded radome provides enhanced protection against rain, ice and lightning strikes. Application for airborne, marine, ground vehicles and manpack installation.

S67-1575-39: Same as (-20) except preamplifier/filter assembly. Internal 26 dB gain amplifier requires +4 to +24 VDC which is provided through the coaxial connector. Height .57 inches.

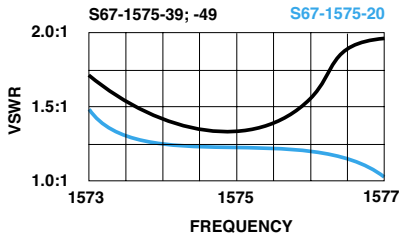
NSN: 5985-01-441-5048

S67-1575-49: Same as (-39) except 40 dB gain preamplifier. Height .60 Inches.

S67-1575-59: Same as (-49) except 13 dB gain preamplifier.

FEDERAL & MILITARY SPECS: FAA TSO C115a and C129, DO-160, MIL-STD-810, MIL-C-5541, MIL-E-5400.

PERFORMANCE



1575 MHz
L1



RADIATION PATTERN

SPECIFICATIONS	GPS		
	S67-1575-20	S67-1575-39	S67-1575-49 S67-1575-59
ELECTRICAL			
Frequency	1575.42 MHz	1575.42 MHz	1575.42 MHz
VSWR	1.5:1	2.0:1	2.0:1
Polarization	RHCP	RHCP	RHCP
Impedance	50 ohms	50 ohms	50 ohms
Antenna Gain (Typ)	3 dBic @ Zenith		
Gain Coverage (min)	-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)	26.0 dB	40.0 dB (-49)	13.0 dB (-59)
Noise Figure	2.8 dB	2.8 dB	2.8 dB
Power Handling	1 watt	1 watt	1 watt
Voltage	+4 to 24 VDC	+4 to 24 VDC	+4 to 24 VDC
Current	25 mA	45 mA	45 mA
Lightning Protection	DC grounded		
MECHANICAL			
Weight	3 oz.	5 oz.	5 oz.
Height40 in.	.57 in.	.60 in.
Width	3.5 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	55,000 ft.		

OUTLINE DRAWING

