



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.

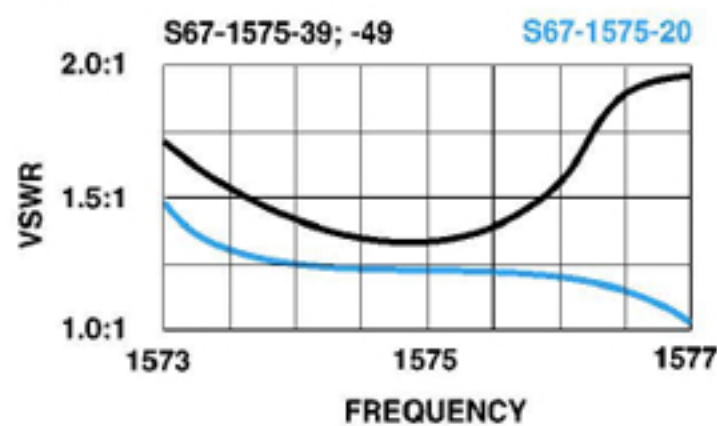
NSN: 5985-01-441-5048

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	S67-1575-20	GPS 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° ≤ θ ≤ 75° -2.5 dBic 75° < θ ≤ 80° -4.5 dBic 80° < θ ≤ 85° -7.5 dBic θ = 90° @ Horizon		
Gain (preamp).....		26.0 dB	40.0 dB (-49) 13.0 dB (-59)
Noise Figure		2.8 dB	2.8 dB
Power Handling	1 watt	1 watt	1 watt
Voltage		+4 to 24 VDC	+4 to 24
VDC			
Current		25 mA	45 mA
Lightning Protection ...		DC grounded	
MECHANICAL			
Weight	3 oz.	5 oz.	5 oz.
Height	.40 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

