



| 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. |
| 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. | | |

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.

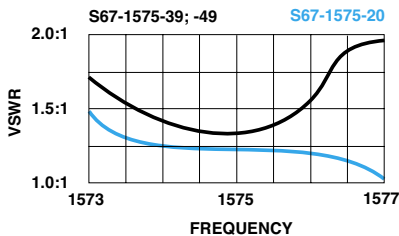
NSN: 5985-01-441-5048

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

MECHANICAL

| | | | |
|-----------------|--------------------------------------|---------|---------|
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| 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

