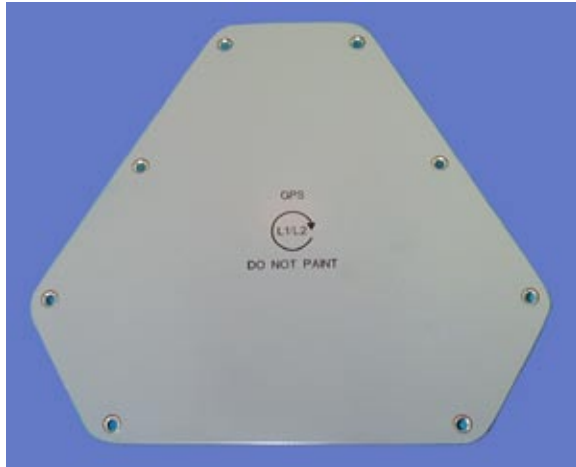




GPS L1/L2 S67-1575-503; -507



DESCRIPTION

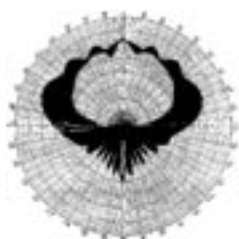
S67-1575-503: Dual band passive conformal "L1/L2 GPS" antenna array. This antenna provides hemispherical coverage at 1227.60 MHz and 1575.42 MHz. Designed for CRPA applications requiring maximum suppression of multiple jammers by forming steerable nulls. The radiating elements are DC grounded for lightning protection. The conformal configuration provides a very low radar cross section and zero drag. The O.M.L. and mounting configuration of the antenna may be changed to meet specific requirements. The antenna is furnished with "SMA" connectors.

Available in Lusterless Gray #34102 or Lusterless Green #34102.

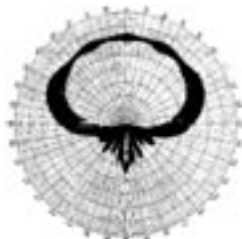
S67-1575-507: Same as (-503) except for square configuration.

FEDERAL & MILITARY SPECS: AMS-C-5541, Mil-E-5400, MIL-STD-810.

PERFORMANCE



1575 MHz L1



1227 MHz L2

RADIATION PATTERNS

SPECIFICATIONS

GPS

S67-1575-503

S67-1575-507

ELECTRICAL

| | | |
|--------------------------|------------------------------|------------------------------|
| Array | 4-Element | 4-Element |
| Frequency | 1575.42 MHz (L1) ± 10.23 MHz | 1227.60 MHz (L2) ± 10.23 MHz |
| VSWR | 2.0:1 | 2.0:1 |
| Polarization | RHCP | RHCP |
| Impedance | 50 ohms | 50 ohms |
| Axial Ratio | 3 dBic @ Zenith | |
| Power Handling | 1 watt | 1 watt |
| 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 |
| Lightning Protection ... | DC grounded | |

MECHANICAL

| | | |
|-----------------|---------------------------------|----------|
| Weight | 1.7lbs. | 1.5 lbs. |
| Height | .53 in. | .65 in. |
| Length | 9.60 in. | 7.00 in. |
| Width | 10.80 in. | 7.00 in. |
| Material | 6061-T6 aluminum / teflon glass | |
| Finish | Skydrol Resistant Enamel | |
| Connector | Type "SMA" Female | |

ENVIRONMENTAL

| | |
|-------------------|-----------------|
| Temperature | -80°F to +185°F |
| Vibration | 10 G's |
| Altitude | 70,000 ft. |

OUTLINE DRAWING

