## GPS WAAS LPV Antenna S67-1575-145





Please Note: For REFERENCE ONLY Contact Sensor Systems for latest drawing



## Description

**S67-1575-145:** WAAS LPV GPS L1 antennas with 29.5 dB gain lownoise amplifier in an ARINC 743A configuration. Meets HIRF/EMI and TSO C190 requirements for all critical level MMR installations. The amplifier section incorporates special filtering providing significant out-ofband rejection while still maintaining full bandwidth. The internal voltage regulator accepts +4 to +24 volts DC. Advanced radome material provides enhanced protection against rain, ice and lightning strikes. DC bias is provided through the coaxial connector. Hermetically sealed.

## FEDERAL & MILITARY:FAA TSO C190, DO-160D/E/G, DO-301, MIL-STD-810C/D, SAE ARP5416

## **Specifications**

| Electrical               |  |
|--------------------------|--|
| Frequency                | 1575.42 ± 10.23 MHz  |
| VSWR                     | ≤ 1.5:1  |
| Polarization             | RCHP   |
| Axial Ratio              | ≤ 3.0 dB @ Zenith  |
| Gain Coverage (min)      | -1.0 dBic $0^{\circ} \le \Theta \le 75^{\circ}$<br>-2.5 dBic 75° $\le \Theta \le 80^{\circ}$<br>-4.5 dBic 80° $\le \Theta \le 85^{\circ}$<br>-7.5 dBic $\Theta = 90^{\circ}$ @ Horizon |
| Impedance                | 50 Ω   |
| G/T ±2 MHz               | -31.6 dB/K @ 5° ABOVE THE HORIZON  |
| Gain (PreAmp)            | 29.5 ±3 dB   |
| Differential Group Delay | <25nS  |
| Power Handling           | 1W (+30dBm for 5 min.)   |
| Supply Voltage           | +4 to +24 VDC @ 60 mA MAX  |
| Mechanical               |  |
| Weight                   | 10 oz. [283 g]   |
| Height                   | .73 in. [18.4 mm]  |
| Width                    | 4.70 in. [119.4 mm]  |
| Length                   | 3.0 in. [76.2 mm]  |
| Finish                   | Skydrol Resistant Polyurethane Enamel  |
| Material                 | 6061-T6 Aluminum Alloy / Thermoset Plastic   |
| Connector                | TNC Female   |
| Environmental            |  |
| Temperature              | -55 ° C (-67°F) to 70 C° (+158°F)  |
| Altitude                 | -100 to 55,000 ft.   |