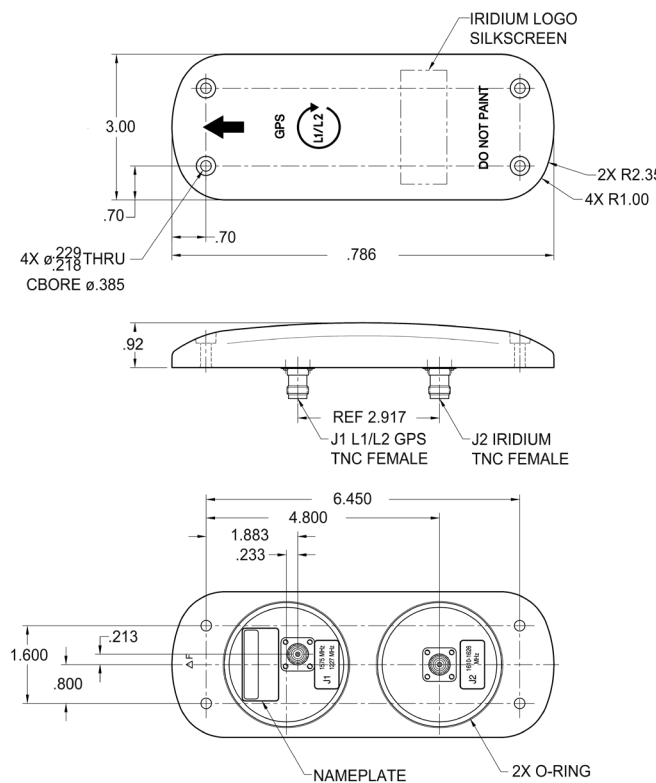


# L1/L2/ACTIVE GPS/IRIDIUM S67-1575-168



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

## Description

This dual band Iridium and GPS L1/L2 antenna is designed for military applications with low voltage requirements such as UAV'S and DAGR/MAGR receivers. The antenna's GPS port features a 26.5 dB LNA with special filtering and an internal voltage regulator which accepts 3.3 to 5 volts. The antenna is DC grounded.

The **S67-1575-168** is approved as Iridium Compatible Equipment (ICE) and is TSO C190 certified.

## Federal & Military Certifications:

FAA TSO C129, MIL-HDBK-5400, MIL-STD-810 and MIL-STD-877.

## Specifications

### Electrical

|                                |   |
|--------------------------------|---|
| Frequency                      | Active GPS (J1): 1565-1585 MHz (L1)<br>(J2): 1217-1237 MHz (L2)<br>Iridium (J2): 1610-1626 MHz              |
| VSWR                           | (J1): ≤2.0:1<br>(J2): ≤2.0:1  |
| Gain Active GPS (J1) (antenna) | 1.0 dBic 0° ≤ Θ ≤ 75°<br>-2.5 dBic 75° ≤ Θ ≤ 80°<br>-4.5 dBic 80° ≤ Θ ≤ 85°<br>-7.5 dBic Θ = 90° @ Horizon  |
| Gain Iridium (J2)              | -1.0 dBic 0° ≤ Θ ≤ 75°<br>-2.5 dBic 75° ≤ Θ ≤ 80°<br>-4.5 dBic 80° ≤ Θ ≤ 85°<br>-7.5 dBic Θ = 90° @ Horizon |
| Gain J1 (preamplifier)         | 26.5 ±3 dB  |
| Polarization                   | J1 & J2: RCHP   |
| Impedance                      | J1 & J2: 50 Ω Nominal   |
| Power                          | J1: 1 Watt<br>J2: 60 Watts  |
| Axial Ratio                    | J1 & J2: ≤3.0 dB @ Zenith   |
| Supply Voltage                 | J1: +3.3 to +5.0 VDC @ 65 mA Max.   |

### Mechanical

|           |  |
|-----------|--|
| Weight    | 16 oz.                                     |
| Height    | .92 in.                                    |
| Length    | 7.86 in.                                   |
| Width     | 3.00 in.                                   |
| Material  | 6061-T6 Aluminum Alloy / Thermoset Plastic |
| Finish    | Skydrol Resistant Polyurethane Enamel      |
| Connector | TNC Female (2)                             |

### Environmental

|                         |                                  |
|-------------------------|----------------------------------|
| Temperature (Operating) | -54°C (-65°F) to +110°C (+230°F) |
| Altitude                | -1500 to 70,000 ft.              |

### Accessories

|                 |                  |
|-----------------|------------------|
| O-ring          | MS28775-142 (2x) |
| Mounting Screws | MS51958-66       |



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Website: [www.sensorantennas.com](http://www.sensorantennas.com)

Phone: 818-341-5366