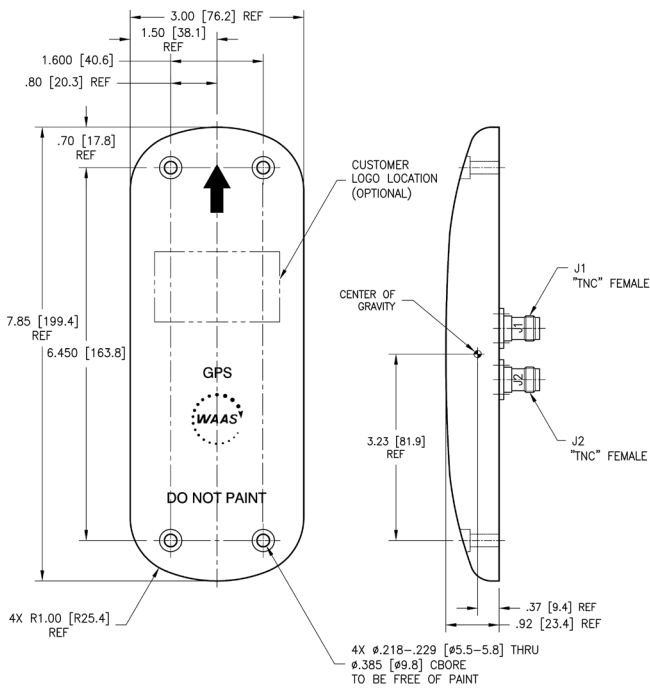


# WAAS/ACTIVE GPS/IRIDIUM S67-1575-160



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

## Description

This low-profile dual band antenna features a GPS WAAS LPV antenna element and a 29.5 dB amplifier combined with an passive Iridium element. The dual element design simplifies installation when GPS WAAS LPV receivers are required and Iridium voice and data are also utilized.

The antenna's advance radome design and material provides superior protection against lightning, rain and ice.

The **S67-1575-160** is approved as Iridium Compatible Equipment (ICE) and is TSO C190 certified.

## Federal & Military Certifications:

FAA TSO C159d and C190, DO-160C, DO-160E, DO-262A, DO-301 MIL-HDBK-5400 and MIL-STD-810.

## Specifications

### Electrical

|                             |  |
|-----------------------------|--|
| Frequency                   | Iridium (J1): 1616.0-1626.5 MHz<br>GPS (J2): 1575.42 ±10.23 MHz  |
| VSWR                        | Iridium (J1): ≤1.8:1<br>GPS (J2): ≤1.5:1   |
| Gain Iridium (J1) (nominal) | +2.0 dBic 0°≤Ø≤20°<br>+0.5 dBic 20°≤Ø≤60°<br>-1.0 dBic 60°≤Ø≤75°<br>-2.5 dBic 75°≤Ø≤80°<br>-4.5 dBic 80°≤Ø≤82° |
| Gain GPS (J2) (antenna)     | -1.0 dBic 0°≤Ø≤75°<br>-2.5 dBic 75°≤Ø≤80°<br>-4.5 dBic 80°≤Ø≤85°<br>-7.5 dBic Ø= 90° @ Horizon                 |
| Gain (preamplifier)         | 29.5 ±3 dB   |
| Polarization                | Iridium (J1) & GPS (J2): RCHP  |
| Impedance                   | Iridium (J1) & GPS (J2): 50 Ω  |
| Power                       | Iridium (J1): 6 Watts  |
| Power (burnout protection)  | GPS (J2): 1W (+30 dBm for 5 mins.)   |
| Axial Ratio                 | Iridium (J1) & GPS (J2): ≤3.0 dB (@ Zenith)  |
| Supply Voltage              | GPS (J2): +4 to +24 VDC @ 60 mA Max.   |

### Mechanical

|           |  |
|-----------|--|
| Weight    | 18 oz. Max.                                |
| Height    | .92 in.                                    |
| Length    | 7.85 in.                                   |
| Width     | 3.00 in.                                   |
| Material  | 6061-T6 Aluminum Alloy / Thermoset Plastic |
| Finish    | Skydrol Resistant Polyurethane Enamel      |
| Connector | TNC Female (2)                             |

### Environmental

|                         |                                 |
|-------------------------|---------------------------------|
| Temperature (Operating) | -55°C (-67°F) to +85°C (+185°F) |
| Altitude                | -100 to 55,000 ft.              |



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