

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



## 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 unit is DC grounded and hermetically sealed.

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  
GPS (J2): 1575.42 ±10.23 MHz

VSWR Iridium (J1): ≤1.8:1  
GPS (J2): ≤1.5:1

Gain Iridium (J1) (nominal) +2.0 dBic 0°≤θ≤20°  
+0.5 dBic 20°≤θ≤60°  
-1.0 dBic 60°≤θ≤75°  
-2.5 dBic 75°≤θ≤80°  
-4.5 dBic 80°≤θ≤82°

Gain GPS (J2) (antenna) -1.0 dBic 0°≤θ≤75°  
-2.5 dBic 75°≤θ≤80°  
-4.5 dBic 80°≤θ≤85°  
-7.5 dBic θ= 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

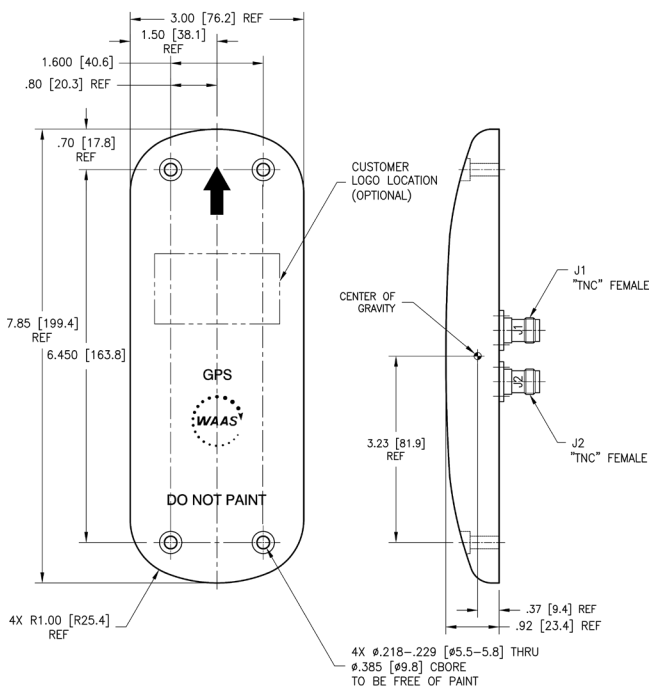
Finish Skydrol Resistant Polyurethane Enamel

Connector TNC Female (2)

### Environmental

Temperature (Operating) -55°C (-67°F) to +85°C (+185°F)

Altitude -100 to 55,000 ft.



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



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