# Field-proven Handhelds Mountable Trackers & Satellite Modems



## SYN7391-B Flat Mount Iridium<sup>®</sup> Antenna



## **General Description**

Model SYN7391-B is a pocket-sized, passive L-band antenna designed to operate with the NAL Research satellite modems and trackers. It provides continuous coverage from 1610 to 1626.5 MHz specifically for the Iridium network. The SYN7391-B is impact, UV, chemical and jet fuel resistance.

# **Specifications**

## Mechanical

Dimensions: Weight: Finish: Color:

Connector: Material: Ground Plane:

### Mounting:

### **Electrical**

Frequency: Radiation Pattern: Polarization: VSWR: Gain (dB): 1.54" L x 1.54" W x 0.37" H (3.91 cm x 3.91 cm x 0.94 cm)
1.1 oz. (31.2 g)
Skydrol Resistant Polyurethane Enamel and Base Iridite Per MIL-C-5441
Gloss White #17925, Lusterless Gray #36320, Olive Drab Green #34031,
Lusterless Black #37038
SMA Female Connector with 36" Cable (Option: TNC, MCX, MMCX or N)
6061-T6 Aluminum Alloy Base Composite Radome
Requires horizontal, relatively flat, metallic mounting surface with
minimum of 10" from all edges, centered for optimal performance
4x 2-56 screws

1610 to 1626.5 MHz Hemispherical **Right Hand Circular** Less than 1.5 : 1 4-Foot Ground Plane 90º Zenith +4.9 10º Elevation -1.0 20° Elevation +1.5 30° Elevation +2.4 45° Elevation +3.3 70º Elevation +4.7 2 dB 50 Ohms 200 Watts DC Grounded Less than 3dB





Axial Ratio:

Impedance: Power Handling:

Lightning Protection:

Cable loss between antenna and modem:

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### Environmental

Operating Temperature:

Operating Altitude: Vibration: Leakage: -67°F to +185°F (-55°C to +85°C) 70,000 ft (21 km) > 30 G's Hermetically Seal

### **Designed To**

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 and SAE J1455



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