



### SAF4070-II Flat Mount Dual Iridium® Antenna



## **General Description**

Model SAF4070-II is a low-profile dual Iridium/Iridium antenna designed to operate with the NAL Research's A3LA and 9601 satellite modems and trackers. It provides continuous coverage from 1610.0 to 1626.5 MHz specifically for the Iridium network. The SAF4070-II is suitable for harsh environment and long term operations. It is impact, UV, chemical and jet fuel resistance.

## **Specifications**

#### **Mechanical**

Dimensions: 5.03" L x 2.08" W x 0.69" H (12.77 cm x 5.28 cm x 1.75 cm)

Weight: 8.0 oz. (226 g)

Finish: Skydrol Resistant Polyurethane Enamel and Base Iridite PerMIL-C-5441

Color: Gloss White #17925, Lusterless Gray #36320, Olive Drab Green #34031, Lusterless Black #37038

Connector: Iridium–TNC Female Connector

GPS–SMA Female Connector

(Option: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX or Cable)

Material: 6061-T6 Aluminum Alloy Base Composite Radome

Mounting: 4x 10-32 screws

## **Electrical**

Frequency: 1610.0 to 1626.5 MHz

Radiation Pattern: Hemispherical
Polarization: Right Hand Circular
VSWR: Less than 1.5 : 1

Gain (dB): With 4-Foot Ground Plane Free Space

 90° Zenith +4.9
 90° Zenith +5.0

 10° Elevation -1.0
 10° Elevation -2.5

 20° Elevation +1.5
 20° Elevation -0.5

 30° Elevation +2.4
 30° Elevation +1.0

60° to 90° Elevation > +3.3 60° to 90° Elevation > +2.7

Beam Width (3dB): 129° 98°

Axial Ratio: 2 dB

Power Handling: 30 Watts

Lightning Protection: DC Grounded

Cable loss between antenna and modem: Must be kept < 3 dB



# Field-proven Handhelds Mountable Trackers & Satellite Modems



#### **Environmental**

Operating Temperature: -67°F to +185°F

(-55°C to +85°C)

Operating Altitude: 70,000 ft (21 km)

Vibration: > 30 G's

Leakage: 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

