

Dual Iridium/GPS Antenna Model SAF7352-IG

General Description

Model SAF7352-IG is a small, inexpensive dual Iridium/GPS 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 and 1575.42±13 MHz (L1) for the GPS.



Specifications

Mechanical

Dimensions: 2.74" L x 1.71" W x 0.45" H
(6.96 cm x 4.34 cm x 1.14 cm)
Weight: 2.0 oz. without cable
Color: Lusterless Black
Connector: Iridium-SMA Male w/ 36" Cable
GPS-SMA Male w/ 36" Cable
(Option: SMA, TNC, TNC Bulkhead,
N, N Bulkhead, MCX, MMCX or
Longer Cables)
Material: Aluminum Base
Ground Plane: Requires horizontal, relatively
flat, metallic mounting surface
with minimum of 2" from all
edges, centered for optimal
performance

Environmental

Operating Temperature: -40°F to +185°F
(-40°C to +85°C)
Operating Altitude: 20,000 ft (6 km)
Vibration: > 30 G's

Electrical for Iridium Antenna

Frequency: 1610.0 to 1626.5 MHz
Radiation Pattern: Hemispherical
Polarization: Right Hand Circular
VSWR: Less than 1.5 : 1
Gain Free Space (dB): 90° Zenith +5.0
10° Elevation -2.5
20° Elevation -0.5
30° Elevation +1.0
60° to 90° Elevation > +2.7
Axial Ratio: 2 dB
Impedance: 50 Ohms
Power Handling: 30 Watts
Cable: Less than 3dB

Electrical for GPS Antenna

Frequency: 1575.42±13 MHz (L1)
Power: 20mA at 5VDC