

## Mobile Magnetic Mount Antenna Model SAF5340-A

### General Description

Model SAF5340-A is a low profile, passive L-band antenna designed to operate with the NAL Research satellite modems and tracking terminals. It provides continuous coverage from 1616 to 1626.5 MHz specifically for the Iridium network. The SAF5240-A has a magnetic mounting for quick, convenient placement on or inside vehicles.



### Specifications

#### Mechanical

Diameter: 3.5" (8.9 cm)  
Height: 0.85" (2.2 cm)  
Weight: 14.3 oz. (405 g)  
Connector: 15-foot Cable with TNC Male Connector  
Ground Plane: Requires horizontal, relatively flat, metallic mounting surface with minimum of 10" from all edges, centered for optimal performance

#### Environmental

Operating Temperature: -40°F to +158°F  
(-40°C to +70°C)  
Operating Altitude: 20,000 ft (6 km)

#### Electrical

Frequency: 1616 to 1626.5 MHz  
Radiation Pattern: Hemispherical  
Polarization: Right Hand Circular  
VSWR: Less than 2.0 : 1  
Radiation Coverage: 4.0 dBic  $\theta = 0^\circ$   
-1.0 dBic  $0^\circ < \theta < 75^\circ$   
-2.5 dBic  $75^\circ \leq \theta < 80^\circ$   
-4.5 dBic  $80^\circ \leq \theta < 85^\circ$   
-7.5 dBic  $\theta = 90^\circ$   
Axial Ratio: 3 dB Max.  
Impedance: 50 Ohms

NOTE: All dimensions are in inches

