

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 trackers. It provides continuous coverage from 1616 to 1626.5 MHz specifically for the Iridium network. The SAF5340-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