

Portable Magnetic Mount Antenna Model SYN7391-A

General Description

Model SYN7391-A is a pocket-sized, passive L-band antenna designed to operate with the NAL Research satellite modems and tracking modems. It provides continuous coverage from 1616 to 1626.5 MHz specifically for the Iridium network. The SYN7391-A has a magnetic mounting for quick, convenient placement on or inside vehicles.



Specifications

Mechanical

Diameter: 2.2" (5.5 cm)
Height: 0.6" (1.4 cm)
Weight: 6.4 oz. (83.6 g)
Connector: 4-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 (6,000 m)

Electrical

Frequency: 1616 to 1626.5 MHz
Radiation Pattern: Hemispherical
Polarization: Right Hand Circular
VSWR: Less than 2.0 : 1
Radiation Coverage: +0.5 dB Zenith to 20°
0.0 dB 20° to 40°
-0.5 dB 40° to 60°
-3.0 dB 60° to 80°
Axial Ratio: 4 dB Max.
Impedance: 50 Ohms
Cable loss between antenna and modem: Less than 3dB

NOTE: All dimensions are in inches

