



SYN7391-A Magnetic Mount Iridium® Antenna

General Description



Model SYN7391-A is a pocket-sized, 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 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

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 80o°
Axial Ratio:	4 dB Max.
Impedance:	50 Ohms
Cable loss between antenna and modem:	Less than 3dB

Environmental

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