

SAF2040-A Flat Mount Iridium® Antenna



General Description

Model SAF2040-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 bolt attachment option allows a secure and permanent installation.

Specifications

Mechanical

Diameter :	3.53" (8.9 cm)
Height:	0.83" (2.2 cm)
Weight:	14.3 oz. (405 g)
Connector:	16-Foot Cable with TNC Male Connector
Mounting:	Requires a 0.640" diameter hole on mounting surface
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 : 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	

Environmental

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