



SAF5350-C Mast Mount Iridium® Rod Antenna

General Description



Model SAF5350-C is a passive L-band antenna designed to operate with the NAL Research satellite modems and trackers. It provides continuous coverage from 1610 to 1626.5 MHz specifically for the Iridium network. The SAF5350-C is suitable for harsh environment and long term operations. It is impact, UV, chemical and jet fuel resistance.

Specifications

Mechanical

Dimensions:	3.5" D x 4.69" H (8.89 cm x 11.91 cm)
Weight:	5.15 oz. (146 g)
Finish:	Skydrol Resistant Polyurethane Enamel and Base Iridite Per MIL-C-5441
Color:	Gloss White #17925, Lusterless Gray #36320, Olive Drab Green #34031, Lusterless Black #37038
Connector:	TNC Female Connector (Option: TNC, SMA, N, N Bulkhead, MCX, MMCX or Cable)
Material:	6061-T6 Aluminum Alloy Base Composite Radome

Electrical

Frequency:	1610 to 1626.5 MHz
Radiation Pattern:	Hemispherical
Polarization:	Right Hand Circular
VSWR:	Less than 1.5 : 1
Gain (dB):	90° Zenith +0.1/+1.1 10° Elevation -1.6/-0.8 20° Elevation -0.8/+1.2 30° Elevation -0.7/+1.1 45° Elevation -0.3/-0.3 70° Elevation -0.7/0.0
Axial Ratio:	2 dB
Lightning Protection:	DC Grounded
Cable loss between antenna and modem:	Must be kept < 3 dB

Environmental

Operating Temperature:	-67°F to +185°F (-55°C to +85°C)
Operating Altitude:	70,000 ft (21 km)
Vibration:	> 30 G's
Leakage:	Hermetically Seal

Designed To

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 and SAE J1455