

Mobile Magnetic Mount Antenna Model SAF5340-B

General Description

Model SAF5340-B is a low profile, passive L-band antenna designed to operate with the NAL Research satellite modems and tracking terminals. It provides continuous coverage from 1610 to 1626.5 MHz specifically for the Iridium network. The SAF5340-B has a magnetic mounting for quick, convenient placement on or inside vehicles. It is impact, UV, chemical and jet fuel resistance.



Specifications

Mechanical

Diameter:	2.6" (6.60 cm)
Height:	1.0" (2.54 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:	SMA Female Connector (Option: TNC, N, N Bulkhead or Cable)
Material:	6061-T6 Aluminum Alloy Base Composite Radome

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

Electrical

Frequency:	1610 to 1626.5 MHz
Radiation Pattern:	Hemispherical
Polarization:	Right Hand Circular
VSWR:	Less than 1.5 : 1
Gain (dB):	4-Foot Ground Plane Free Space
	90° Zenith +4.9 90° Zenith +4.4
	10° Elevation -1.0 10° Elevation -2.6
	20° Elevation +1.5 20° Elevation -1.0
	30° Elevation +2.4 30° Elevation +0.4
	45° Elevation +3.3 45° Elevation +2.5
	70° Elevation +4.7 70° Elevation +4.0
Axial Ratio:	2 dB
Impedance:	50 Ohms
Power Handling:	200 Watts
Lightning Protection:	DC Grounded
Cable loss between antenna and modem:	Must be kept 3dB

Designed To

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

NOTE: All dimensions are in inches [mm]

