



DESCRIPTION

S65-8282-101: Low-gain Satcom antenna covering Inmarsat frequency range of 1530 to 1559 MHz and 1625.5 to 1660.5 MHz, designed to meet SB200 Class 15 service. The broad-band coverage of the antenna also includes frequencies of 1616 to 1626.5 MHz for Iridium Satellite Services voice and data applications. The unit provides over 90% sky coverage.

Small, lightweight, low-drag antenna is DC-Grounded and hermitically sealed.

The antenna is approved for Inmarsat Aero-L and Aero-C (store-and-forward) applications. May be used as a back-up antenna for the high-gain ARINC 741 antenna.

The S65-8282-101 is also approved as Iridium Compatible Equipment (ICE).

NSN: 5985-01-457-5077

FEDERAL & MILITARY SPECS: FAA PMA, DO-160D, MIL-HDBK-5400T, MIL-STD-810D, TSO C132 AND TSO C159a.

SPECIFICATIONS		
MODEL		S65-8282-101
ELECTRICAL		
Frequency	Inmarsat:	Receive: 1530-1559 MHz Transmit: 1625.5-1660.5 MHz
	Iridium:	Receive/Transmit: 1616.0-1626.5 MHz
VSWR	Inmarsat:	≤ 1.5:1
	Iridium:	≤ 1.3:1
Gain		≥2.7 dBic Minimum Coverage: 98%
Axial Ratio		≥3.8 dB Minimum Coverage Volume: 93.6%
Polarization		RHCP
Impedance		50 Ohms
Power Handling		60 Watts CW
Lightning Protection		DC Grounded
MECHANICAL		
Weight		1.35 lbs.
Height		4.58 in.
Length		11 in.
Width		4.25 in.
Material		6061-T6 Aluminum Alloy / Thermoset Plastic
Finish		Skydrol Resistant Polyurethane Enamel
Connector		TNC Female
Drag		1.1 lbs. @ Mach .85 @ 35,000 ft.
ENVIRONMENTAL		
Temperature		-55°C (-65F) to +85°C (+185°F)
Vibration		10 Gs
Altitude		70,000 ft.

