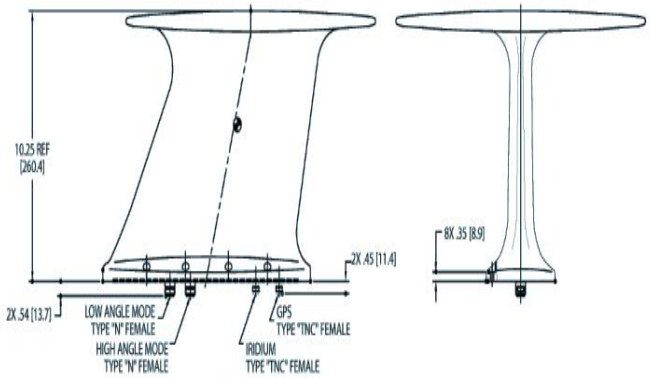
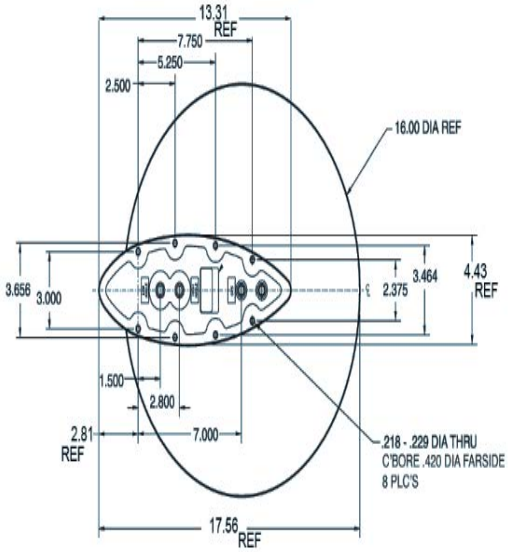
UHF/SATCOM/Active GPS/L1/L2 S65-8282-186





Please Note: For REFERENCE ONLY
Contact Sensor Systems for latest drawing

Description

S65-8282-186: UHF Satellite communications an-tenna provides four functions from a single, low-pro-file footprint. The traditional low-angle, vertically-po-larized blade section is used for air-to-air and air-to-ground UHF communications. The high-angle RHCP element is designed for UHF Satcom. The broad cardioid pattern provides coverage for up to plus or minus 35 degrees from zenith. An L 1/L2 GPS with a 26.5dB amplifier is housed in the radome along with an Iridium element for voice and data applications. Each antenna section has separate connectors for ease of installation and to eliminate the requirement for diplexers. The S65-8282-186 is approved as Iridium Compatible Equipment (ICE).

NSN: 5985-01-597-0009.

FEDERAL & MILITARY SPECS: MIL-HDBK-5400, MIL-STD-810, MIL-STD-877.

Specifications

Electrical	
Frequency	240-400 MHz (High Angle UHF Satcom) 225-400 MHz (Low Angle UHF) 1565-1586 MHz (L1 GPS) 1217-1238 MHZ (L2 GPS) 1618-1626.5 MHz (Iridium)
VSWR	2.0:1 (High Angle UHF Satcom) 2.0:1 (Low Angle UHF and GPS) 15:1 (Iridium)
Pattern	Cardioid Hemispheric RHCP (High Angle UHF Satcom) Omnidirectional in Azimuth Cosinusoidal in Elevation (Low Angle UHF)
Polarization	RHCP (High Angle UHF Satcom, GPS, and Iridium Vertical (Low Angle UHF)
Impedance	50 Ω
Power	125 Continuous Watts (High Angle UHF Satcom) 125 Continuous Watts (Low Angle UHF) 1 Watt (GPS) 60 Continuous Watts (Iridium)
Gain	+3 dBic min, +7 dBic peak @ zenith (High Angle UHF Satcom) 0 dBil min @ horizon, +2 dBil peak (Low Angle UHF) 26.5 dBic (GPS L1/L2 and Iridium)
Mechanical	
Weight	8.9 lbs [4.02 kg]
Height	10.25 in. max [260.4 mm]
Diameter	16.0 in.
Material	6061-T6 Aluminum Alloy / Fiberglass
Finish	Skydrol Resistant Polyurethane Enamel
Connector	N Female (x2) / TNC Female (x2)
Drag	2.8 lbs. Mach .85 @ 35,000 ft.
Environmental	
Temperature	-61°C (-77°F) to +85°C (+185°F)
Altitude	50,000 ft.

Sensor Systems Inc.
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Website: www.sensorantennas.com Phone: 818-341-5366