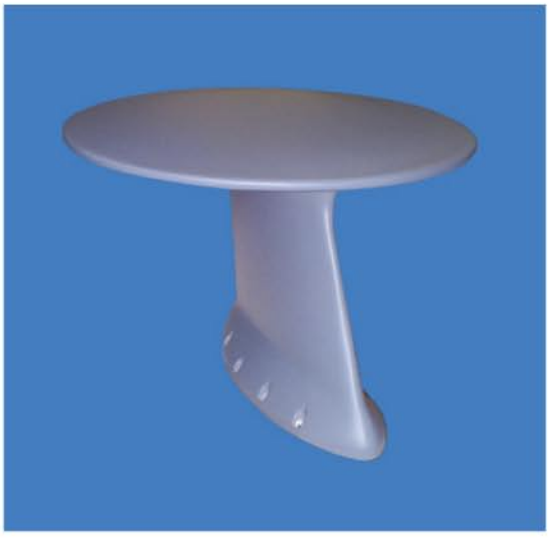
UHF/Satcom/GPS/Iridium S65-8282-186

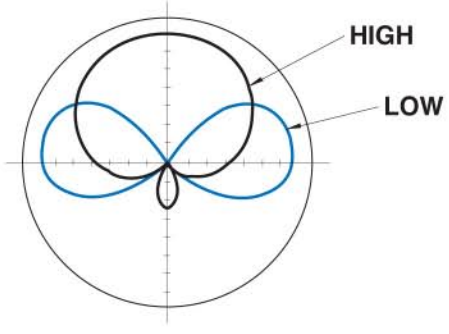


DESCRIPTION

S65-8282-136: UHF Satellite Communication antenna provides four functions from a single low-profile antenna footprint. The traditional low-angle, vertically-polarized blade can be used for air-to-air and air-to-ground 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 L1/L2 GPS antenna is housed in the radome to provide GPS function on the third output connector. A fourth output connector provides Iridium satellite voice and data services. Military application.

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

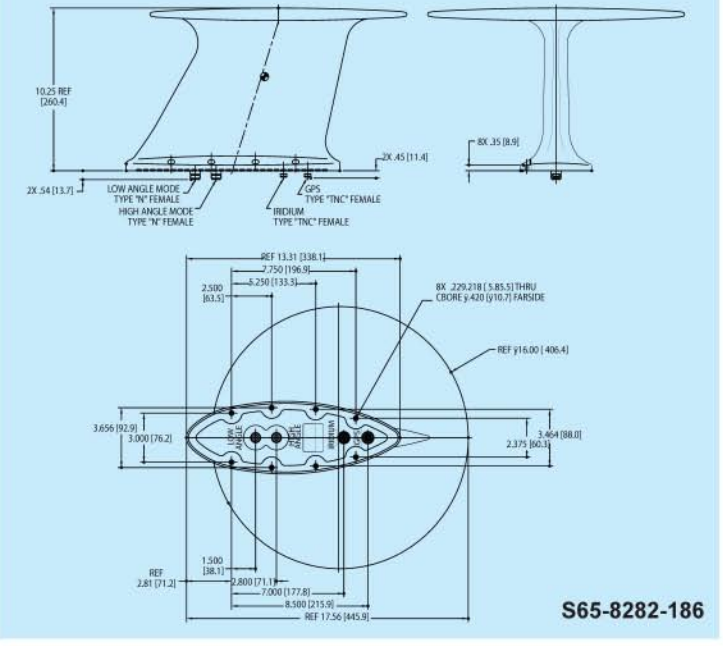
PERFORMANCE



RADIATION PATTERNS

SPECIFICATIONS	S65-8282-130
ELECTRICAL	
Frequency	240-400 MHz (high angle UHF/Satcom) 225-400 MHz (low angle UHF/Satcom) 1565 to 1586 MHz (L1 GPS) 1217 to 1238 MHz (L2 GPS)
VSWR	2.0:1 (high angle) 2.0:1 (low angle) UHF and GPS
Pattern	Cardioidhemispheric RHCP (high angle) Omni/Az, Cos/El (low angle)
Polarization	RHCP (high angle) UHF and GPS Vertical (low angle)
Impedance	50 Ohms
Power	125 watts CW (high angle) 125 watts CW (low angle) 1 watt (GPS)
Gain	+3 dBic min, +7 dBic peak @ zenith (high angle UHF) 0 dBil min @ horizon, +2 dBil peak (low angle UHF) 26 dBic (GPS L1-L2)
MECHANICAL	
Weight	8.9 lbs [4.02 kg]
Height	10.25 in max [260.4 mm]
Diameter	16.0 in.
Material	6061-T6 aluminum / glass
Finish	Skydrol-resistant enamel
Connector	N, TNC
Drag	2.8 lbs. Mach .85 @ 35,000 ft.
ENVIRONMENTAL	
Side Load	10 psi
Temperature	-77°F to +185°F
Vibration	10 G's
Shock	20 G's
Altitude	50,000 ft.

OUTLINE DRAWING



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