

# UHF/SATCOM/Active GPS/L1/L2 S65-8282-196



## Description

The UHF Satellite Communication antenna provides three 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. A 40 dB gain active L1/L2 GPS antenna is housed in the radome to provide GPS function on the third output connector.

## Federal & Military Certifications:

MIL-STD-810 and MIL-STD-877.

## Specifications

### Electrical

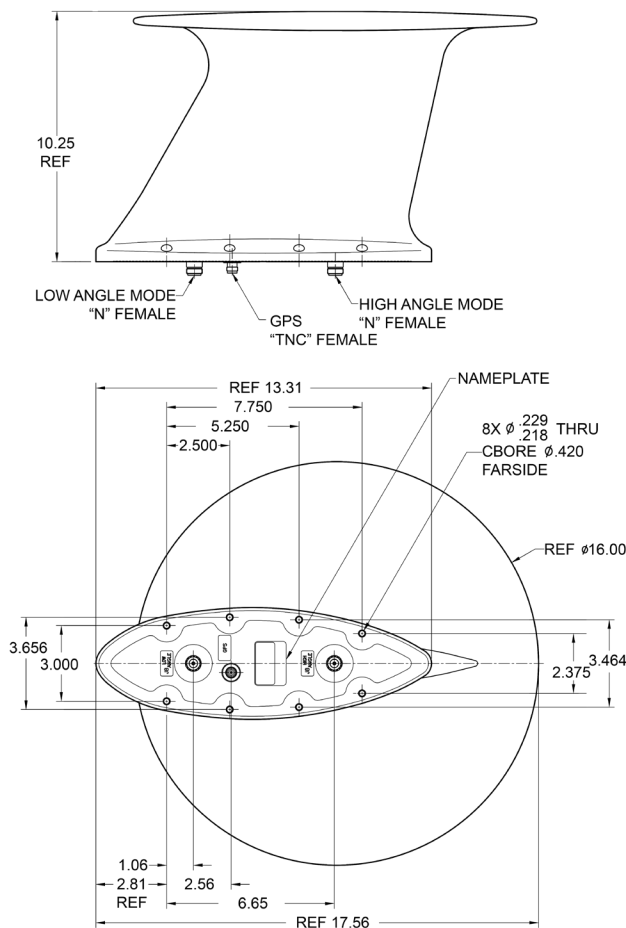
Frequency	UHF/Satcom: High Angle: 240-400 MHz Low Angle: 225-400 MHz
	GPS: L1: 1565 to 1586 MHz L2: 1217 to 1238 MHz
VSWR	UHF/Satcom: $\leq 2.0:1$ GPS: $\leq 2.0:1$
Gain	UHF/Satcom: High Angle: +3 dBic Min. Low Angle: +2.0 dBi
Gain (Antenna)	GPS: 3 dBic
Gain (Preamplifier)	GPS: 40.0 $\pm$ 4.0 dB
Polarization	UHF/Satcom: High Angle: RHCP Low Angle: Vertical
	GPS: RHCP
Pattern	UHF/Satcom: High Angle: Cardioid Hemispheric RHCP Low Angle: Omnidirectional in Azimuth Low Angle: Cosinusoidal in Elevation
Impedance	50 $\Omega$
Power	UHF/Satcom: 125 Watts Continuous GPS: 1 Watt

### Mechanical

Weight	8.4 lbs.
Height	10.25 in.
Length	17.56 in.
Width	$\varnothing$ 16.00 in.
Material	6061-T6 Aluminum Alloy / Fiberglass
Finish	Skydrol Resistant Polyurethane Enamel
Connector	Satcom: N Female (2) GPS: TNC Female

### Environmental

Temperature (Operating)	-61°C (-77°F) to +85°C (+185°F)
Altitude	-1800 to 50,000 ft.



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



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