



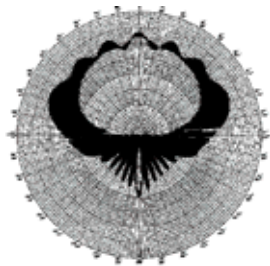
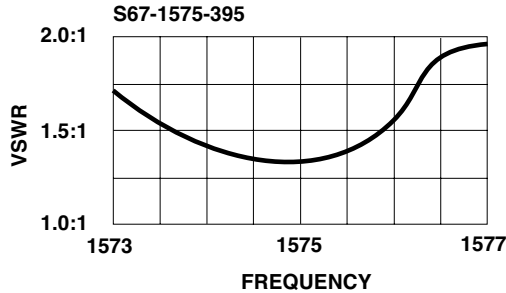
### DESCRIPTION

**S67-1575-395:** Provides the following data in a continuous output: Heading, Inclination (pitch and roll), XYZ Magnetometer and Temperature, along with an active TSO'd GPS antenna. Multi-sensor GPS antenna provides excellent directional control information for heading and position.

Data is sent in a continuous serial format via subcarrier modulation along the coax center conductor. All sensor calculations are accomplished at rates up to 4 Hz.

**FEDERAL & MILITARY SPECS:** DO-160, MIL-E-5400, MIL-C-5541, FAA TSO C129.

### PERFORMANCE



RADIATION PATTERN

### SPECIFICATIONS

#### GPS

#### S67-1575-395

#### ELECTRICAL - GPS

Frequency	1575.42 MHz
VSWR	2.0:1
Polarization	RHCP
Impedance	50 ohms
Power Handling	1 watt
Antenna Gain	(Typ) 3 dBic @ Zenith
Gain Coverage (min)	-1.0 dBic 0° ≤ θ ≤ 75° -2.5 dBic 75° < θ ≤ 80° -4.5 dBic 80° < θ ≤ 85° -7.5 dBic θ = 90° @ Horizon
Gain (preamp)	26 dB
Lightning Protection	DC grounded

#### ELECTRICAL - COMPASS

Data Calculation Rate	.4 Hz
Baud Rate	4.8K Baud
Subcarrier Frequency	.220 KHz
Input Power (system)	+12 to +24 VDC @ 100ma max

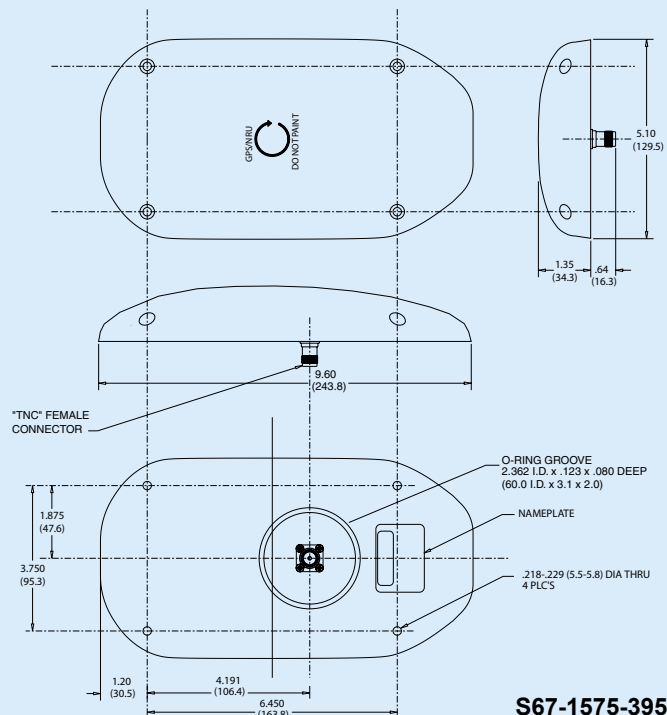
#### MECHANICAL

Weight	2.0 lbs.
Height	1.36 in.
Material	6061-T6 aluminum / thermoset plastic
Finish	Skydrol resistant enamel
Connector	TNC

#### ENVIRONMENTAL

Temperature	-67°F to +185°F
Vibration	10 G's
Altitude	55,000 ft.

### OUTLINE DRAWING



S67-1575-395