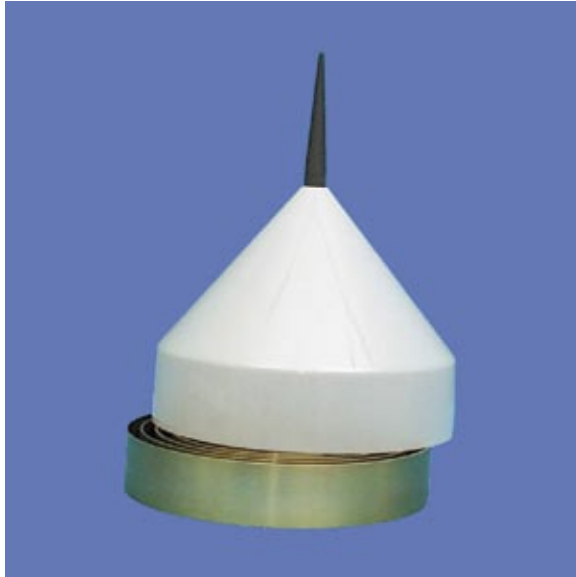


☉ Choke Ring GPS S96-1575-Series



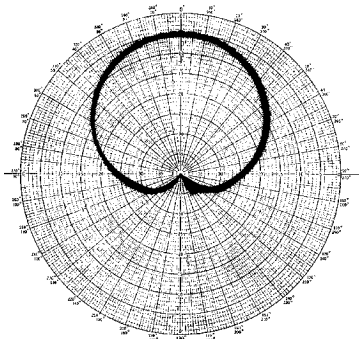
DESCRIPTION

S96-1575-139: Includes Model S67-1575-39, 26 dB active GPS antenna mounted in a choke ring with radome. Ideal for WAAS and LAAS requirements. Makes Special Category 1 approaches available to airports and heliports regardless of size. The antenna/choke ring combination reduces multipath effects by decreasing antenna gain at and below the horizon. Typical gain reduction is 0.5 dB per degree below 10 degrees above the horizon. Antenna gain at 5 degrees above the horizon is approximately 13 dB down from the gain at Zenith. The choke ring/GPS antenna is housed in a sealed radome, with or without a heater, to prevent snow and ice buildup. Radome is shaped to deter birds from perching and interfering with the reception of GPS signals.

An L1/L2 version of the choke ring is available. Both active and passive antennas are available. Choke Rings may be used with any Sensor Systems GPS Antennas.

FEDERAL & MILITARY SPECS: DO-160, MIL-STD-810, MIL-C-5541. Antenna TSO: C115a and C129.

**1575 MHz
L1 & L2
available**



RADIATION PATTERN

Sensor Systems Inc.
8929 Fullbright Avenue
Chatsworth, CA 91311 USA
818-341-5366 fax: 818-341-9059
email: info@sensorantennas.com
www.sensorantennas.com

SPECIFICATIONS

CHOKE RING/GPS S96-1575-139

ELECTRICAL

Frequency	1575.42 MHz
VSWR	2.0:1
Polarization	RHCP
Impedance	50 ohms
Gain Coverage	+7.5 dBic @ 0° (zenith)
	+6.4 dBic @ 20°
	+3.2 dBic @ 40°
	-3.6 dBic @ 60°
	-8.7 dBic @ 80°
	-14.0 dBic @ 90°
Gain (preamp)	26.0 dB
Noise Figure	2.8 dB
Power Handling	1 watt
Voltage	+4 to +24 VDC
Current	25 mA
Lightning Protection	DC grounded

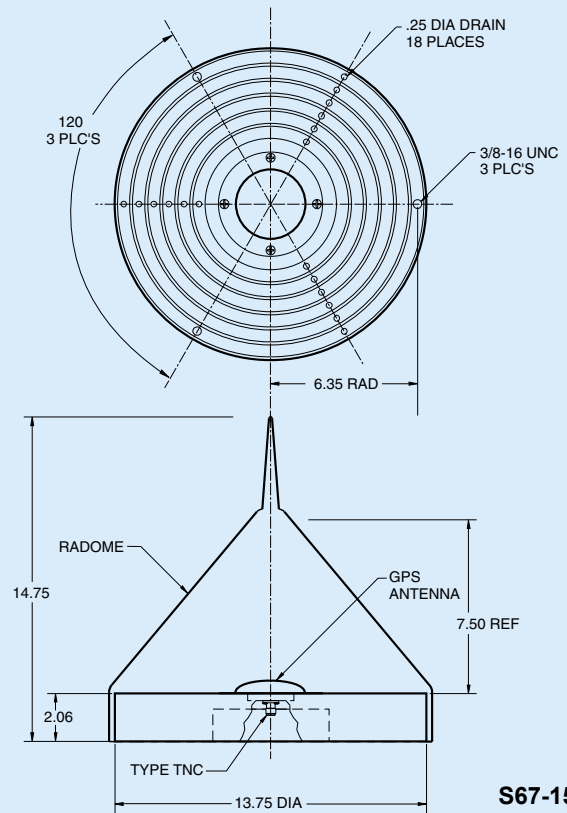
MECHANICAL

Weight	12.5 lbs.
Height	14.75 in.
Diameter	13.75 in.
Material	Radome - Polycarbonate
	Antenna - 6061-T6 aluminum / thermoset plastic
	Base - 6061-T6 aluminum
Finish	Radome - White polycarbonate
	Antenna - Skydrol resistant enamel
Connector	TNC

ENVIRONMENTAL

Temperature	-67°F to +185°F
Vibration	10 G's
Altitude	20,000 ft.

OUTLINE DRAWING



S67-1575-139