

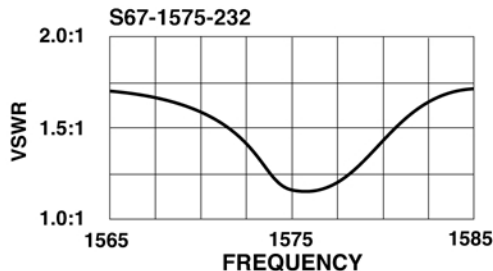
## DESCRIPTION

**S67-1575-232:** This is an active conformal L1 GPS antenna currently operational on the Gulfstream GV. A 29.5dB amplifier is integrated in the antenna housing, which includes band pass filtering to provide out-of-band rejection. The antenna has an internal voltage regulator and accepts +4 to +24 VDC. D.C. bias is provided through the center conductor of the connector. This antenna provides omni-directional coverage with a minimum gain of +3dBic at zenith. The O.M.L. of the antenna may be changed to meet your specific requirements. The antenna is furnished with a right angle "TNC" connector and weighs nine (9) ounces.

**FEDERAL AND MILITARY SPECS:** ARINC 743A, DO-160, DO-228, MIL-E-5400, MIL-STD-810, TSO-C144

SPECIFICATIONS	
<b>MODEL</b>	<b>S67-1575-232</b>
<b>ELECTRICAL</b>	
Frequency	1575.42 ±10MHz
VSWR	≤ 2.0:1
Polarization	RHCP
Impedance	50 ohms
Axial Ratio	≤ 3.0 dB @ Zenith
Gain (Antenna)	3dBic @ Zenith
Gain Coverage	-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)	29.5 ±3 dB
Power Handling	1 Watt (+30 dBm)
Supply Voltage	+4 to 24 VDC @ 45 mA MAX
Lightning Protection	DC grounded
<b>MECHANICAL</b>	
Weight	9 oz.
Height	.57 in.
Diameter	5.10 in.
Material	6061-T6 Aluminum Alloy / Teflon
Finish	Skydrol-Resistant Enamel
Connector	TNC Female
<b>ENVIRONMENTAL</b>	
Temperature	-55°C (-67°F) to +85°C (+185°F)
Vibration	10 Gs
Altitude	-100 to 55,000 FT

## PERFORMANCE



## RADIATION PATTERN

1575 MHz  
L1

