

# GPS WAAS Antenna S67-1575-137



### Description

**S67-1575-137:** Active antenna, low-profile, with advanced radome design and material, offers enhanced protection against rain, ice and lightning strikes. 29.55 dB gain, low-noise, wide bandwidth with special filtering. Accepts +4 to +24 VDC and contains internal voltage regulator. DC bias is provided through coax connector. Hermetically sealed. Meets TSO C190 for all MMR installations. See part number S67-1575-145 for ARINC equivalent. Approved for WAAS LPV Beta 3 applications.

**FEDERAL & MILITARY SPECS:** FAA TSO-C190, DO-160, DO-301, MIL-HDBK-5400, MIL-STD-810.

## Specifications

## Electrical

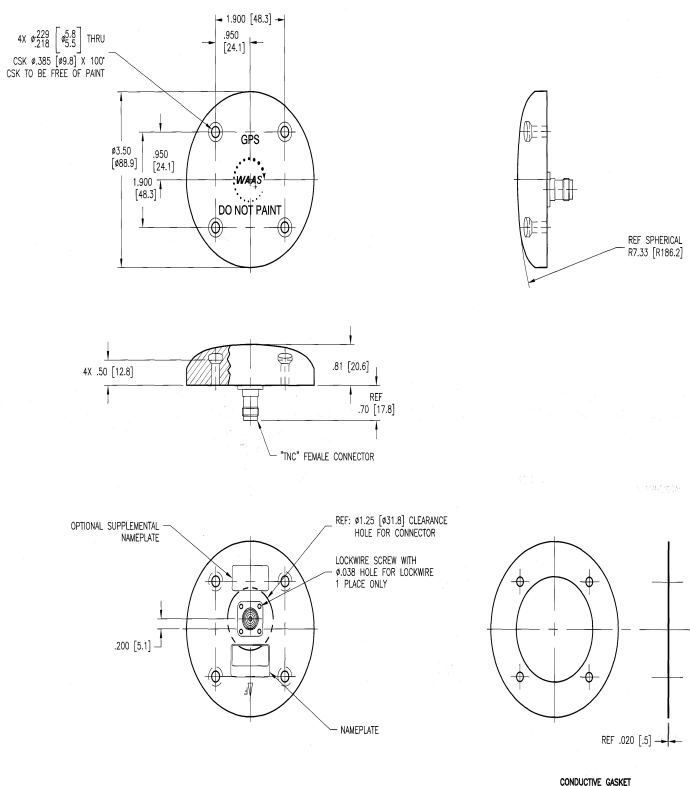
Frequency	1575.42 ± 10.23 MHz
VSWR	≤ 1.5:1
Polarization	RCHP
Axial Ratio	≤ 3.0 dB @ Zenith
Antenna Gain	-1.0 dBic 0° ≤ Θ ≤ 75°
	-2.5 dBic 75° ≤ Θ ≤ 80°
	-4.5 dBic 80° ≤ Θ ≤ 85°
	-7.5 dBic Θ = 90° @ Horizon
Impedance	50 Ω
GT ± 2 MHz	-31.6 dB/K @ 5° ABOVE THE HORIZON@ 70°C
Gain (Preamp)	29.5 ± 3 dB
Differential Group Delay	<25nS
Power Handling	1W (+30dBm for 5 min.)
Supply Voltage	+4 to +24 VDC @ 60 mA MAX

## Mechanical

Weight	8 oz.
Height	.81 in.
Diameter	3.50 in.
Finish	Skydrol Resistant Polyurethane Enamel
Material	6061-T6 Aluminum Alloy / Thermoset Plastic
Connector	TNC Female

## Environmental

Temperature	-55 ° C (-67°F) to 70 C° (+158°F)
Altitude	-100 to 55.000 ft.



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

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📞 Phone: 818-341-5366