

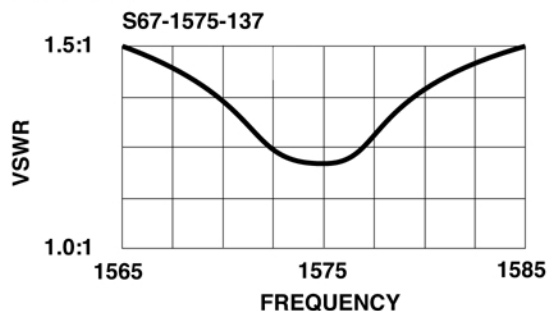


## DESCRIPTION

**S67-1575-137:** Active antenna, low profile, with advanced radome design and material, offers enhanced protection against rain, ice and lightning strikes. 29.5dB 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.

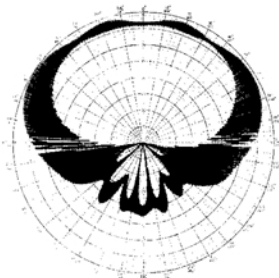
**FEDERAL & MILITARY SPECS:** FAA TSO-C190, DO-160, DO-301, MIL-HDBK-5400, MIL-STD-810.

## PERFORMANCE



## RADIATION PATTERN

1575 MHz  
L1



SPECIFICATIONS	
MODEL	S67-1575-137
ELECTRICAL	
Frequency	1575.42 ± 10 MHz
VSWR	≤1.5:1
Polarization	RHCP
Impedance	50 ohms
Axial Ratio	≤ 3.0 dB @ Zenith
Antena 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
Gain (preamp)	29.5 ± 3 dB
GT ± 2 MHz	-31.6 dB/K @ 5° Above horizon @ 70°C
Differential Group Delay	<25nS
Power Handling	1 watt (+30 dBm for 5 minutes)
Supply Voltage	+4 to +24 VDC @ 60 mA MAX
Lightning Protection	DC grounded
MECHANICAL	
Weight	8 oz.
Height	.81 in.
Diameter	3.50 in.
Material	6061-T6 Aluminum Alloy / Thermoset Plastic
Finish	Skydrol Resistant Polyurethane Enamel
Connector	TNC Female
ENVIRONMENTAL	
Temperature	-55°C (-67°F) to +70°C (+158°F)
Vibration	10 Gs
Altitude	-100 to 55,000 ft

