

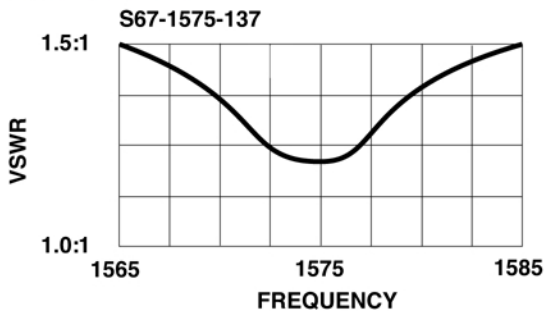


## DESCRIPTION

**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.

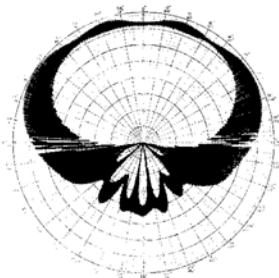
**FEDERAL & MILITARY SPECS:** FAA TSO-C190, DO-160, DO-301, MIL-HDBK-5400, MIL-STD-810.

## PERFORMANCE



## RADIATION PATTERN

1575 MHz  
L1



SPECIFICATIONS	
<b>MODEL</b>	<b>S67-1575-137</b>
<b>ELECTRICAL</b>	
<b>Frequency</b>	1575.42 ± 10 MHz
<b>VSWR</b>	≤1.5:1
<b>Polarization</b>	RHCP
<b>Impedance</b>	50 ohms
<b>Axial Ratio</b>	≤ 3.0 dB @ Zenith
<b>Antena Gain</b>	-1.0 dBic 0° ≤ θ ≤ 75° -2.5 dBic 75° < θ ≤ 80° -4.5 dBic 80° < θ ≤ 85° -7.5 dBic θ = 90° @ Horizon
<b>Gain (preamp)</b>	29.5 ± 3 dB
<b>GT ± 2 MHz</b>	-31.6 dB/K @ 5° Above horizon @ 70°C
<b>Differential Group Delay</b>	<25nS
<b>Power Handling</b>	1 watt (+30 dBm for 5 minutes)
<b>Supply Voltage</b>	+4 to +24 VDC @ 60 mA MAX
<b>Lightning Protection</b>	DC grounded
<b>MECHANICAL</b>	
<b>Weight</b>	8 oz.
<b>Height</b>	.81 in.
<b>Diameter</b>	3.50 in.
<b>Material</b>	6061-T6 Aluminum Alloy / Thermoset Plastic
<b>Finish</b>	Skydrol Resistant Polyurethane Enamel
<b>Connector</b>	TNC Female
<b>ENVIRONMENTAL</b>	
<b>Temperature</b>	-55°C (-67°F) to +70°C (+158°F)
<b>Vibration</b>	10 Gs
<b>Altitude</b>	-100 to 55,000 ft

