



DESCRIPTION

S67-1575-145: WAAS LPV GPS L1 antenna with 29.5 dB gain low-noise amplifier in an ARINC 743A configuration. Meets HIRF/EMI and TSO C190 requirements for all critical level MMR installations. The amplifier section incorporates special filtering providing significant out-of-band rejection while still maintaining full bandwidth. The internal voltage regulator accepts +4 to +24 volts DC. Advanced radome material provides enhanced protection against rain, ice and lightning strikes. DC bias is provided through the coaxial connector. Hermetically sealed.

FEDERAL & MILITARY SPECS: FAA TSO C190, DO-160D/E/G, DO-301, MIL-STD-810C/D, SAE ARP5416.

SPECIFICATIONS	
MODELS	S67-1575-145
ELECTRICAL	
Frequency	1575.42 ± 10.23 MHz
VSWR	≤1.5:1
Polarization	RHCP
Impedance	50 Ohms
Axial Ratio	≤ 3.0 dB @ Zenith
Gain Coverage (min)	-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
G/T ±2 MHz	-31.6 dB/K @ 5° Above the Horizon
Differential Group Delay	<25 nS
Power Handling	1 Watt (+30 dBm for 5 min.)
Supply Voltage	+4 to +24 VDC @ 60 mA MAX
Lightning Protection	DC grounded
MECHANICAL	
Weight	10 oz.
Height	.73 in
Width	3.0 in.
Length	4.70 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.

PERFORMANCE

