



### DESCRIPTION

**S67-1575-16:** ARINC 743A passive GPS antenna. Low profile, with advanced radome design and material, offers enhanced protection against rain, ice and lightning strikes. Hermetically sealed. ARINC applications.

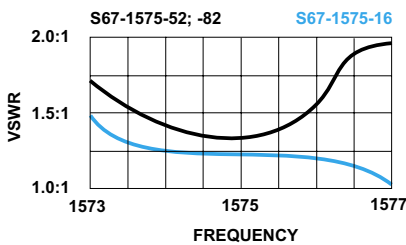
**S67-1575-52:** Same as (-16) except 26 dB gain internal amplifier with special filtering for airline applications. Requires +4 to +24 VDC with internal voltage regulator. D.C. bias is provided through the coax connector. Height .55 inches.

**S67-1575-82:** Same as (-52) except 40.0 dB gain amplifier.

**S67-1575-38:** Same as (-52) except covers GPS/ Glonass frequency Band.

**FEDERAL & MILITARY SPECS:** FAA TSO C115a and C129. DO-160, MIL-STD-810, ARINC 743A, MIL-C-5541, MIL-E-5400.

### PERFORMANCE



1575 MHz  
L1



RADIATION PATTERN

### SPECIFICATIONS

	GPS		
	S67-1575-16	S67-1575-52	S67-1575-82
<b>ELECTRICAL</b>			
Frequency .....	1575.42 MHz	1575.42 MHz	1575.42 MHz
VSWR .....	1.5:1	2.0:1	2.0:1
Polarization .....	RHCP	RHCP	RHCP
Impedance .....	50 ohms	50 ohms	50 ohms
Antenna Gain (Typ) .....	3 dBic @ 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) .....		26.0 dB	40.0 dB
Noise Figure .....		2.5 dB	2.5 dB
Power Handling .....	1 watt	1 watt	1 watt
Voltage .....		+4 to 24 VDC	+4 to 24 VDC
Current .....		25 mA	45 mA
Lightning Protection .....		DC grounded	
<b>MECHANICAL</b>			
Weight .....	5 oz.	6 oz.	6 oz.
Height .....	.50 in.	.55 in.	.55 in.
Width .....	3.0 in.		
Length .....	4.70 in.		
Material .....	6061-T6 aluminum / thermoset plastic		
Finish .....	Skydrol resistant enamel		
Connector .....	TNC		
<b>ENVIRONMENTAL</b>			
Temperature .....	-67°F to +185°F		
Vibration .....	10 G's		
Altitude .....	55,000 ft.		

### OUTLINE DRAWING

