



# Model Number L56113

## Space Qualified

## GPS L1-L2-L5 Filter/Amplifier

Rev a  
07/05/13



### Features:

- L1, L2, L5 Operation
- Low Noise Figure
- Cavity Filter
- Discrete Amplifier
- Excellent out-of-band attenuation
- Space Qualified

### Applications:

- Spacecraft
- Test Equipment

### Package size:

- 0.8 x 2.6 x 3.0"

(Please see outline for exact dimensions)

Parameter	L1 Channel	L2+L5 Channel
Center Frequency	1575.4 ± 10 MHz	1166.45 to 1237.6 MHz
35 dB Two-Sided Bandwidth	200 MHz maximum	600 MHz maximum
Rejection from 10 MHz to 700 MHz	60 dB minimum	
Rejection from 1775 MHz to 18 GHz	60 dB minimum	
Center Frequency Gain	43 dB ± 3 dB at L1 and L2	
Noise Figure (25° C)	2.5 dB maximum centered at L1, L2, L5	
Noise Figure (50° C)	2.9 dB maximum centered at L1, L2, L5	
VSWR, Input	1.5:1 maximum	
VSWR, Output	2:1 maximum	
Voltage	+5 VDC through RF output connector (only)	
Current Draw	0.150 Amps maximum	
Operating Temperature	-30° to +50° C	
Survival Temperature	-80° to +125° C	
Shock (Survival)	Frequency (Hz)	SRS (g)
	20	40
	30	80
	320	270
	760	1140
	1500	3500
	2700	6600
	4200	9600
Vibration (Survival)	5000	9600
	10000	2000
	Frequency (Hz)	PSD (g <sup>2</sup> /Hz)
	5	0.05
	10	0.1
	63	0.1
	64	0.2
	72	0.2
	73	0.1
	96	0.1
97	1.25	
107	1.25	
108	0.095	
300	0.5	
500	0.5	
1000	0.01	
2000	0.01	
RF Emission	-80 dBm maximum	
Radiation Hardness	10 krad minimum	
Finish	Aeroglaze Z306 Flat Black Absorptive Paint	
Outgassing	<1%TML <0.1% VCML	
Discrete Components	High-Reliability Designed and Screened	
Weight	220 Grams maximum	
Connectors	SMA Female	



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Written By    Approved By