



Model Number L5690

Space Qualified GPS Filter/Amplifier

Rev E
10/26/05



Features:

- L1+L2 Operation
- Low Noise Figure
- Cavity Filter
- Discreet 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 Channel
Center Frequency	1575.4 ± 10 MHz	1227.6 ± 10 MHz
35 dB Two-sided Bandwidth	200 MHz max	200 MHz max
Rejection	60 dB minimum for all frequencies from 10 to 975 MHz	
Rejection	60 dB minimum for all frequencies from 1775 to 18,000 MHz	
Center Frequency Gain	43 dB ± 3 dB at L1 and L2	
Noise Figure (25° C)	2.5 dB maximum centered at L1 and L2	
Noise Figure (50° C)	2.9 dB maximum centered at L1 and L2	
VSWR input	1.5:1 maximum	
VSWR output	2:1	
Voltage	+7 to +25 VDC through RF output pin (only)	
Current	0.100 Amps max	
Operating Temperature	-30 to +50°C	
Survival temperature	-80 to +125°C	
Shock (survive)	Frequency (Hz)	SRS (g)
	20	40
	30	80
	320	270
	760	1140
	1500	3500
	2700	6600
	4200	9600
	5000	9600
Vibration (survive)	Frequency (Hz)	PSD (g ² /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	
Radiation Hardness	10 krad minimum	
Finish	Aeroglaze Z306 Flat Black Absorptive paint	
Outgassing	<1%TML	
	<0.1% VCML	
Discreet Components	High-Reliability designed and Screened	
Weight	220 Grams maximum	



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