



Model Number S59111

Hi-Rel Filter/Amplifier

Rev. C
05/14/09

Features:

- Cavity Design
- Low Noise Figure
- Sealed Design

Applications:

- Launch Telemetry
- Test Equipment

Package size:

- 1.25 x 1.75 x 8.0"

(Please see outline for exact dimensions)

Specifications: (-30 to +70C)

Passband	2200 to 2400 MHz	
Gain	35 dB min and 40 dB max	
Noise Figure	1.5 dB	
VSWR	1.5 input	
Rejection	--Gain at 2100 MHz at least 15 dB lower than Gain at 2200 MHz --Gain at 2500 MHz at least 15 dB lower than Gain at 2400 MHz	
Phase	+/- 10 degrees	
Voltage	+9 to +25 VDC @ < 110 mA	
Temperature	-30 to +70 C Operating -55 to +100 C Storage	
Shock (survive)	Frequency (Hz)	SRS (g)
	20	40
	30	80
	320	270
	760	1140
	1500	3500
	2700	6600
	4200	9600
	5000	9600
	10000	2000
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	
Connectors		
RF input and output	SMA Female	
DC Power	RF Output Connector	

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