



# Model Number S59109

## Hi-Rel Filter/Amplifier

Rev.C  
06/12/12

### 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	2025 to 2060 MHz	
Gain	45 ± 3 dB	
Noise Figure	2.5 dB	
Input VSWR	1.3:1	
Output VSWR	2:1	
Rejection from 2200 to 2300 MHz	80 dB <sub>c</sub>	
Rejection from 800 to 1500 MHz	60 dB <sub>c</sub>	
Phase	± 10°	
Voltage	+7 to +34 VDC at < 150 mA	
Operating Temperature	-30° to +70° C	
Survival Temperature	-55° to +100° C	
Shock (Survival)	Frequency (Hz)	SRS (g)
	20	40
	30	80
	320	270
	760	1140
	1500	3500
	2700	6600
	4200	9600
	5000	9600
	10000	2000
Vibration (Survival)	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	
Connectors	RF Input and Output	SMA Female
	DC Power	D-Sub Socket (Glenair #MWDM3L-9SSB)

## Delta Microwave

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