



Model Number L5698

GPS Filter/Amplifier

Rev.-
11/14/05



Features:

- Cavity Design
- Low Loss

Applications:

- Maritime
- Airborne
- Mobile
- Timing
- Test Equipment

Package size:

- 0.85 x 2.5 x 4.0"

(Please see outline for exact dimensions)

Parameter	L1 Channel	L2 Channel
Center Frequency	1575.4 + 10 MHz	1227.6 + 10 MHz
1 dB Two-sided Bandwidth	25 MHz min	25 MHz min
80 dB Two-sided Bandwidth	200 MHz max	200 MHz max
Center Frequency Gain (1)	30+ 3 dB	30 + 3 dB
L1 & L2 Gain Match	Within 2 dB	
Rejection	80 dB minimum for all frequencies between 100 MHz and 10GHz that are greater than + 100 MHz from L1 and L2. 65 dB minimum from 10 GHz to 12 GHz	
Signal Band Noise Figure	3.6 dB maximum at + 10 MHz from L1 and L2	
VSWR	1.5:1 referenced to 50 Ohms	
dc Power	Through center conductor of output coaxial connector or separate terminals	
Voltage	+ 8.7 Vdc to + 22.0 Vdc	
Current	0.050 Amps max	
Ripple and noise	0.25V peak-to-peak, maximum	
Transient excursion	0.2 V for 0.2 seconds, maximum	
Input In-Band Power Handling	+10 dBm RF for 1 minute	
Input Out-Of-Band Power Handling	+ 33 dBm RF without damage (at least 100 MHz removed from L1 or L2)	
1 dB Compression Point	>+0 dBm min. +5 dBm typ.	
Continuous Operating Temp	- 54 to + 71 OC	
Elevated Temperature	+ 71 to + 95 OC	
Non Operating Temperature	- 62 to + 95 OC	
Altitude	-1000 to +15,000 feet	
Humidity	100 percent, condensing	
Sand and Dust	MIL-STD- 810, Method 510.1, Procedure I.	
Salt Spray	MIL-STD- 810, Method 510.1, Procedure I.	
Salt Water Immersion	Non-operating, One hour immersion per MIL-STD-810, Method 512.1, Procedure III.	
Shock	MIL-STD-810, Test Method 516.2, Procedure I Amplitude @ 20 g and time 11 ms	
Rain	MIL-STD-810, Test Method 506.1, Procedure I	
Weight	0.5 pounds maximum	
Reliability (MTBF)	193,000 hours per MIL-HDBK-217 for Airborne, Uninhabited, Fighter Environment.	
Finish	Haze Gray per MIL-P-24441, Type 1	
Connectors	TNC Female	



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