



# Model Number L5661 GPS Filter/Amplifier

Rev -  
03/07/06

## Features:

- L1+L2 Operation
- Low Noise Figure
- Cavity Filter
- Discreet Amplifier
- Excellent out-of-band attenuation

## Applications:

- Aircraft
- Maritime
- Mobile
- Test Equipment

## Package size:

- 0.5 x 2.0 x 4.0"

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)	33+ 3 dB	33 + 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	3.1 dB maximum at + 10 MHz from L1 and L2 @ +25 C	
VSWR	1.5:1 referenced to 50 Ohms	
dc Power	Through center conductor of output coaxial connector.	
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	
In-Band Power Handling	+10 dBm RF for 1 minute	
Out-Of Band Power Handling	+ 33 dBm RF without damage (at least 100 MHz removed from L1 or L2)	
Continuous Operating Temp	- 54 to + 71 OC	
Elevated Temperature	+ 71 to + 95 OC	
Non Operating Temperature	- 62 to + 95 OC	
Altitude	-1000 to +150,000 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	
Vibration	MIL-STD-810C, Table 514.2-IV, Procedures 11A, 11B and 11C and sinusoidal vibration levels per MIL-E-5400T, Figure 2(sheet 2), curve 1LA (2g), and MIL-STD-810D, Test Method 514.3, Category 7A, buffet maneuver.	
Reliability (MTBF)	193,000 hours per MIL-HDBK-217 for Airborne, Uninhabited, Fighter Environment.	
Finish	Haze Gray per MIL-P-24441, Type 1	
Connectors	SMA Female	

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