



# Model Number L5663

## High Reliability GPS Filter/Amplifier

Rev.B  
11/4/09



**Features:**

- L1+L2 Operation
- Low Noise Figure
- Cavity Filter
- Discreet Amplifier
- Excellent out-of-band attenuation
- 883B Screened Components

**Applications:**

- Missile
- Aircraft
- Maritime
- Mobile
- Test Equipment

**Package size:**

- 0.5 x 2.5 x 4.4”

(Please see outline for exact dimensions)

Parameter	L1 Channel	L2 Channel
Center Frequency	1575.4 $\pm$ 10 MHz	1227.6 $\pm$ 10 MHz
1 dB Two-sided Bandwidth	20 MHz min	20 MHz min
80 dB Two-sided Bandwidth	200 MHz max	200 MHz max
Rejection	80 dB minimum for all frequencies between 100 MHz and 10GHz that are greater than $\pm$ 100 MHz from L1 and L2. 65 dB minimum from 10 GHz to 12 GHz	
Center Frequency Gain	43 dB $\pm$ 3 dB at L1 and L2	
Group Delay	< 5ns unit to unit	
Noise Figure	2.7 dB maximum at L1 and L2	
Power Handling	+ 10 dBm (in band) +33 dBm (out of band)	
VSWR	1.5:1 maximum	
Voltage	+7 to +25 VDC through RF output pin (only)	
Current	0.100 Amps max	
Finish	Haze Gray per MIL-P-24441, Type 1	
RF Connectors	SMA Female	
Micro Electronic Parts Screening	In Accordance with MIL-STD-883, Method 5004, Class B. Groups A and B	
<b>Environment</b>		
Temperature	-54 to + 85C (operating) -55 to +125 C (non-operating)	
Humidity	100% Condensing	
Sand and Dust	Per MIL-STD-810, Method 510.1, Procedure I	
Salt Water Immersion	1 hour per per MIL-STD-810, Method 12.1 Procedure III	
Vibration (Operating)	Freq	G <sup>2</sup> /Hz
	50	.07
	300	.24
	500	.24
	2000	.01
Vibration (Buffet)	Freq	G <sup>2</sup> /Hz
	10	.2
	25	1.5
	42	1.5
	100	.2



**Delta Microwave**

300 Del Norte Blvd  
Oxnard, CA. 93030

Phone: 805.751.1100  
Fax: 805.240.9544

email: sales@deltamicrowave.com  
www.deltamicrowave.com

--	--

Author

Approved