Model Number L5633
GPS Filter/Amplifier

Rev C
06/15/12

Parameter	L1 Channel	L2 Channel
Center Frequency	1575.4 MHz	1227.6 MHz
1 dB Bandwidth	24 MHz minimum	24 MHz minimum
80 dB Bandwidth	200 MHz minimum	200 MHz minimum
Center Frequency Gain	25 ± 3 dB	25 ± 3 dB
Gain Match between L1 and L2	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	
Group Delay Variation, L1 and L2	5 ns maximum, unit to unit	
Passband Noise Figure	4.1 dB maximum at ± 10 MHz from L1 and L2 (4.5 dB at elevated temperature)	
VSWR	1.5:1 referenced to 50 Ohms	
DC Power	+8.7 to +22.0 VDC, 0.06 Amps maximum through the RF Output Connector	
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 for 1 minute	
Out-Of-Band Power Handling	+ 33 dBm without damage (at least 100 MHz removed from L1 or L2)	
Continuous Operating Temperature	- 55 to + 85 °C	
Elevated Temperature	+ 85 to + 95 °C for 10 minutes, maximum	
Non-Operating Temperature	- 55 to + 125 °C	
Altitude	70,000 feet	
Humidity	100 %, Condensing	
Sand and Dust	MIL-STD- 810, Method 510.1, Procedure I	
Salt Spray	MIL-STD- 810, Method 510.1, Procedure I	
Non-Operating Salt Water Immersion	One hour immersion per MIL-STD-810, Method 512.1, Procedure III	
Shock	20 g and time 11 ms per MIL-STD-810, Test Method 516.2, Procedure I	
Rain	MIL-STD-810, Test Method 506.1, Procedure I	
Weight	0.5 pounds, maximum	
Active Component Screening	MIL-STD-883	
MTBF	100,000 hours per MIL-HDBK-217 for Airborne, Uninhabited, Fighter Environment	
Finish	Haze Gray per MIL-P-24441, Type 1	
Connectors	SMA Female	

Features:

- L1+L2 Operation
- Low Noise Figure
- Cavity Filter
- Discrete Amplifier
- Excellent Out-of-Band Rejection

Applications:

- Aircraft
- Simulators
- Maritime
- Mobile
- Test Equipment

Package size:

- 0.5 x 1.3 x 4.3”

(Please see outline for exact dimensions)

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QUALITY SYSTEM REGISTERED TO ISO 9001:2000

Author	Approved

Delta Microwave reserves the right to change specifications without notice. Please verify specification revision letter upon order placement.