Model Number L54128
GPS Filter/Amplifier

Rev - 1/24/06

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 2.2 x 3.25”

(Please see outline for exact dimensions)

Parameter	
Passband	1227 +/- 10 MHz 1575 +/- 10 MHz
1 dB Bandwidth	>± 13 MHz
3 dB Bandwidth	>± 17 MHz <± 33 MHz
20 dB Bandwidth	<± 50 MHz
40 dB Bandwidth	<±135 MHz
50 dB Bandwidth	<± 200 MHz
Gain, Net , L1 or L2	10-14 dB
Δ Gain, L1 to L2	<3dB,<2dB goal
PB Ripple, Fo ± 8 MHz	<±0.4 dB
Ultimate Attenuation (a). 0.01 – 5GHz, excluding PB (L1, L2 ± 150 MHz) (b). 5-18GHz	 (a) >55dBo (b) >45dBo
Noise Figure	<2.7 dB @ 25° C <3.2 dB @ -40 to +80° C
VSWR, Input Fo ± 10 MHz	<1.6:1 Maximum
VSWR, Output Fo ± 10 MHz	<1.7:1 Maximum
DC Power, via output RF connector	+3.3V ±0.5V, <40mA
In-Band Input Power, Survive, Non-Operate, (In band: L1/L2 to ± 20 MHz) Duration < 1 minute	1 Watt peak, <0.3W, CW
In Band, Max. Input Power Operate	-15dBm max.
Out-Of Band Max Input Power, Survive, Non-Operate excluding L1/L2 to ±150 MHz Duration <1 minute	10 Watts Peak, <0.3W, CW 0.1-18 GHz
1dB Compression, Output	> +1dBm
Operating Temperature-Ambient, Baseplate	- 40°C to + 80°C
Delta Time Delay, Fo ±8 MHz	<8ns p-p
Sealing	Gross Leak per MIL-STD-202, Method 112, Condition D.
Connectors	SMA Female, gold
Size	See outline drawing
Finish	Haze Gray per MIL-P-24441, Type 1

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By	Checked

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