



# Model Number L54122

## GPS Filter/Amplifier/Combiner

Rev -  
2/9/06



### Features:

- L1 Operation
- Built in combiner for dual antenna use
- Low Noise Figure
- Cavity Filter
- Discreet Amplifier
- Excellent out-of-band attenuation

### Applications:

- Guided Munitions
- Missile
- Airborne
- Mobile
- Test Equipment

### Package size:

- 0.5 x 2.2 x 2.75"

(Please see outline for exact dimensions)

Parameter	L1 Channel
Center Frequency	1575.4 + 10 MHz
Center Frequency Gain (1)	21 Min, 29 Max
Passband Ripple	< ±0.5 dB
Noise Figure	< 5.8 @ Ambient
Delta TD Fo ±8 MHz	< 8 ns p-p
1dB Compression Point	> +4 dBm (+1 dBm min. per port)
1 dB Bandwidth	± 13 MHz Min
3 dB Bandwidth	± 17 MHz Min to ± 33 MHz Max
20 dB Bandwidth	± 50 MHz Max
40 dB Two-sided Bandwidth	± 135 MHz Max
Isolation from input to output	20 dB
Ultimate Rejection	>48 dBc min for all frequencies between 1 to 3 GHz that are greater than + 150 MHz from L1. >45 dB min from 3 GHz to 18 GHz. > 15 from 18 to 40 GHz.
Signal Band Noise Figure	2.5 dB Max
VSWR (In & Out)	3.0 dB Max over Operating Temperature
Splitter ports matching	1.6:1 Max referenced to 50 Ohms
Amplitude	< ±0.5 dB
Phase	< ± 5degrees
Noise Figure	< ±0.3 dB
DC Power	Through center conductor of output coaxial connector
Voltage	+ 5 ±0.5 VDC
Current Draw	0.050 Amps Max
In-Band Power Handling Operating	-15 dBm Max
In-Band Power Handling Survive	0.3 Watt CW Max (24.8dBm)
Out-Of Band Power Handling	10 Watts Peak, 10µs, 1% duty cycle Max
RF Output power	+12 dBm Max
Continuous Operating Temp	- 40° to + 80 OC
Non Operating Temperature	- 62° to + 80 OC
Connectors	SMA Female per MIL-C-39012
Finish	Haze Gray per MIL-P-24441, Type 1

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