



Model Number L5217

High Reliability GPS Filter/Amplifier/
Limiter/Combiner

Rev. B
06/12/12



Features:

- Ceramic filter design
- Low Loss
- Integrated Combiner

Applications:

- Space
- Airborne
- Timing
- Test Equipment

Package size:

- 0.6 x 1.81 x 3.0"

(Please see outline for exact dimensions)

Parameters	Requirements
Frequency Band (L1):	1575 ± 10 MHz
1dB Passband Bandwidth	1575 ± 1 MHz minimum
VSWR	1.5:1 maximum
Input Power at J1 or J2, Output Power at J3	
1565 to 1585 MHz	-145 to -120dBm
2200 to 2400 MHz	+5dBm maximum
Output Power at J3 from 400 MHz to 12 GHz	+10dBm CW maximum
Gain at J3	20 ± 2dB
Output 1dB Compression Point at J3	+7dBm minimum
Amplitude Unbalance at J3 over frequency (Variation over L1 frequency range relative to input power at either J1 or J2)	± 1.0dB maximum
1 dB Passband Ripple	0.5dB Peak to Peak maximum
Noise Figure	2.0 dB maximum
Phase Unbalance at J3 over frequency	± 10° maximum
Phase Linearity (1dB Bandwidth)	10° Peak maximum from straight line
J1, J2 Isolation	20dB minimum
Out of Band Signal Rejection at J3 (Signal Rejection is J3 output power relative to the input power at J1 or J2 for out of band frequency.)	
424 to 446 MHz	60dB minimum
Below 1375 MHz	60dB minimum
Above 1775 MHz	60dB minimum
2200 to 2400 MHz	60dB minimum
8.0 to 12.0 GHz	60dB minimum
DC Power Requirements	+19 to +34 VDC at 100 mA



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