

# GPS Filter Amplifier L5217

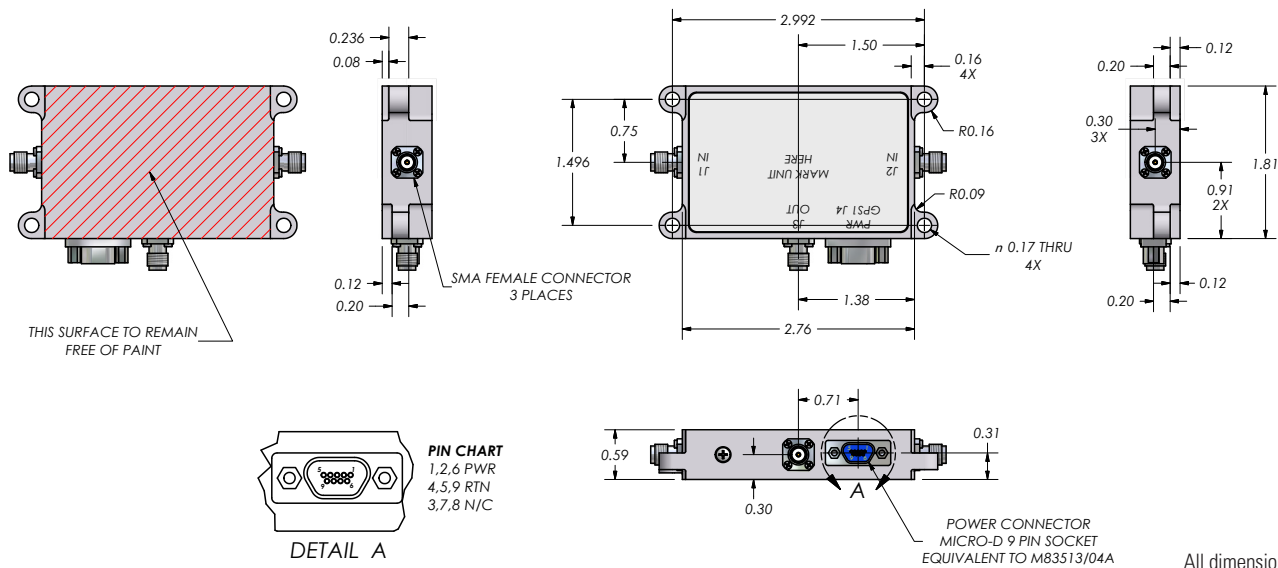


Specifications are subject to change without notice

## Electrical Specifications (+25°C)

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

## Outline Drawing



## Need More Help? Need a Variant of This Product?

Contact Mercury's RF & Microwave engineering team at [rf.microwave@mrcy.com](mailto:rf.microwave@mrcy.com) or visit [www.mrcy.com/rf](http://www.mrcy.com/rf) for a detailed listing of RF and Microwave products.



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