



**Voltage Regulator Equations**

LM337  $V_o = -1.25(1 + \text{Radj}/120) + (50\mu\text{A} * \text{Radj})$

LM317  $V_o = 1.25(1 + \text{Radj}/249) + (100\mu\text{A} * \text{Radj})$

SPICE File Located: C:\Rich's Files\LT Spice\PhotodiodeAnalysis\lsc\_rfjds\ligo\_lsc\_201119\_45\_lsc\_v3.asc

Version 5 schematic uses version 3 circuit board

**Version Summary:**

- Version 1 - Initial release
- Version 2 - Added whitening to DC readout
- Version 3 - Added input DC power conditioning and DC reverse polarity protection diodes
- Version 4 - Only a schematic change; Changed R27 from 750 to 909, R29 from 357 to 453. This was done to increase the voltage on the RF opamp from +/- 5 volts DC to +/- 5.9 volts DC for greater dynamic range
- Version 5 - Reworked Bill of Materials to reflect actual parts used.

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Last Edited: 20September2012		Sheet: 1 of 1	

