



Voltage Regulator Equations

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

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

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 500; 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.

SPICE File Located: C:\Rich's Files\LT Spice\PhotodiodeAnalysis\lsc_rfpds\A_LIGO_LSC_2011\9_45_LSC_v3.asc