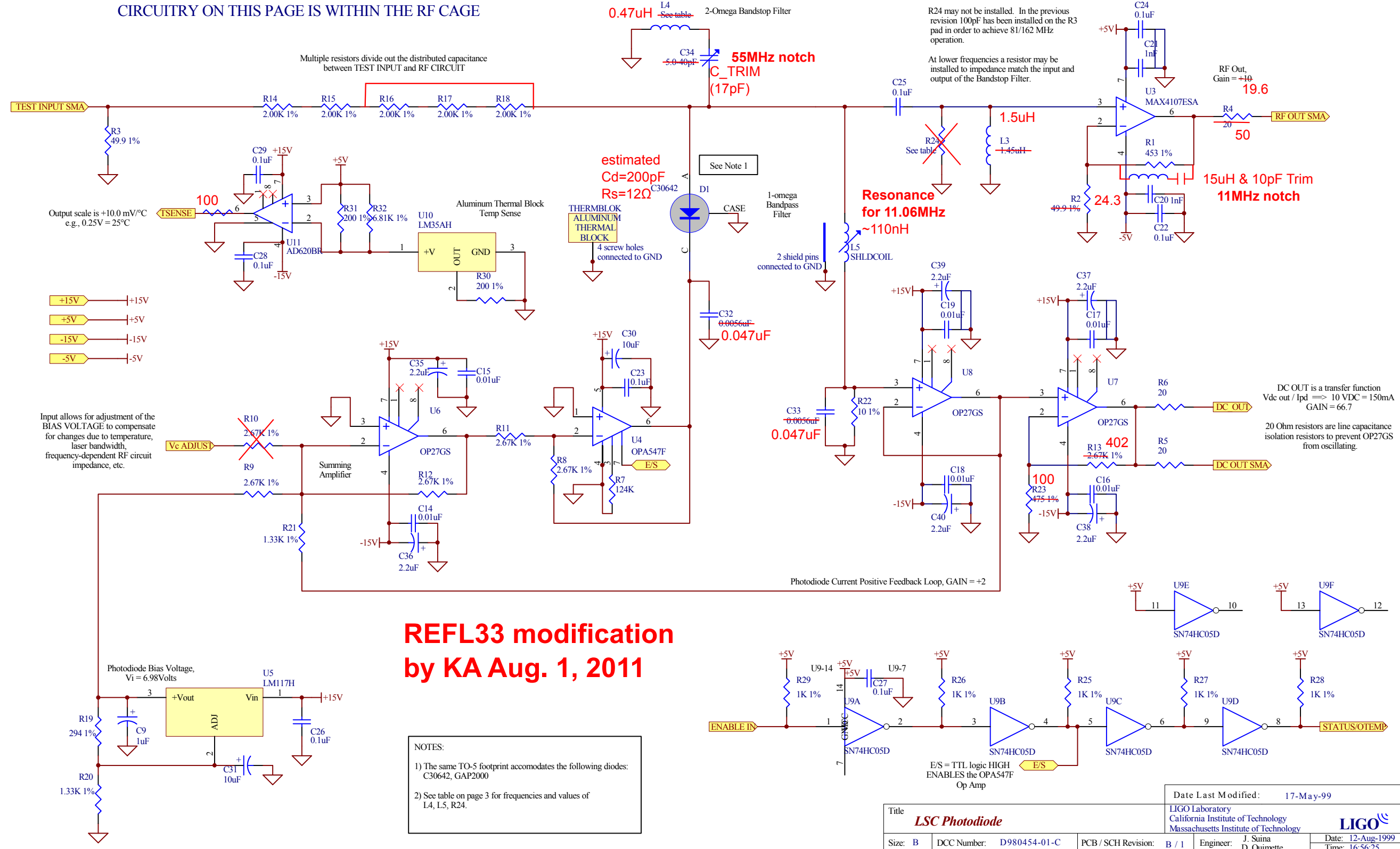


CIRCUITRY ON THIS PAGE IS WITHIN THE RF CAGE



Multiple resistors divide out the distributed capacitance between TEST INPUT and RF CIRCUIT

Output scale is +10.0 mV/°C  
e.g., 0.25V = 25°C

- +15V → +15V
- +5V → +5V
- 15V → -15V
- 5V → -5V

Input allows for adjustment of the BIAS VOLTAGE to compensate for changes due to temperature, laser bandwidth, frequency-dependent RF circuit impedance, etc.

**REFL33 modification by KA Aug. 1, 2011**

- NOTES:
- 1) The same TO-5 footprint accommodates the following diodes: C30642, GAP2000
  - 2) See table on page 3 for frequencies and values of L4, L5, R24.

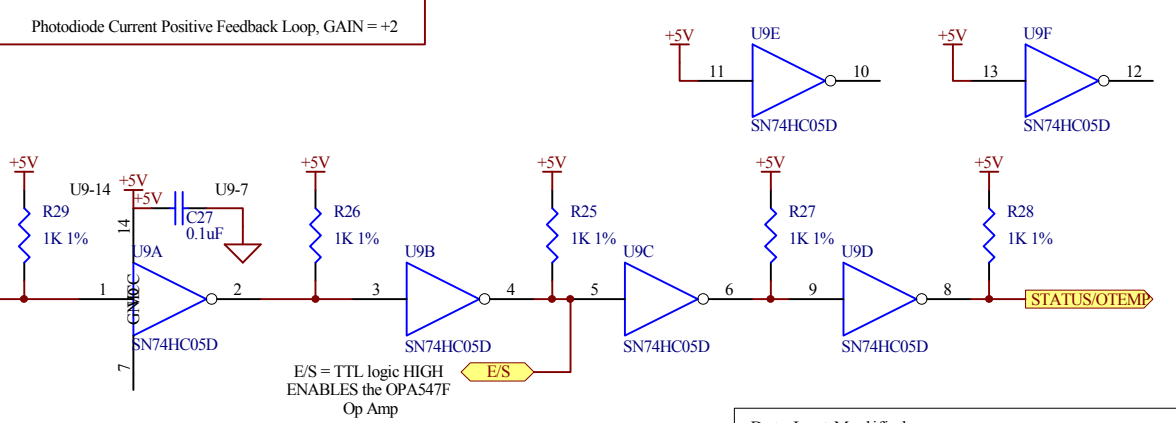
R24 may not be installed. In the previous revision 100pF has been installed on the R3 pad in order to achieve 81/162 MHz operation.  
At lower frequencies a resistor may be installed to impedance match the input and output of the Bandstop Filter.

Resonance for 11.06MHz ~110nH

RF Out, Gain = +10  
19.6

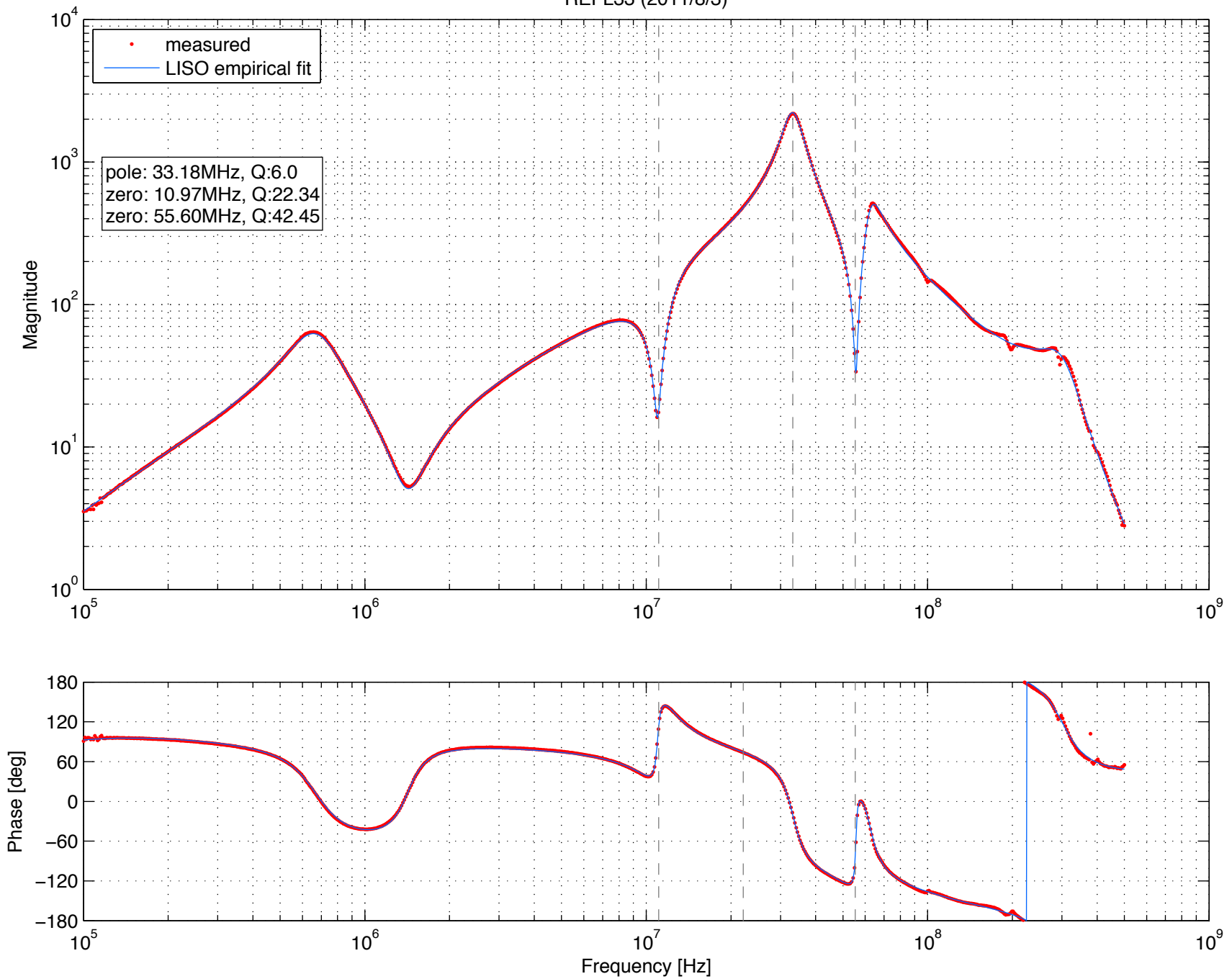
15uH & 10pF Trim  
11MHz notch

DC OUT is a transfer function  
Vdc out / Ipd ⇒ 10 VDC = 150mA  
GAIN = 66.7  
20 Ohm resistors are line capacitance isolation resistors to prevent OP27GS from oscillating.

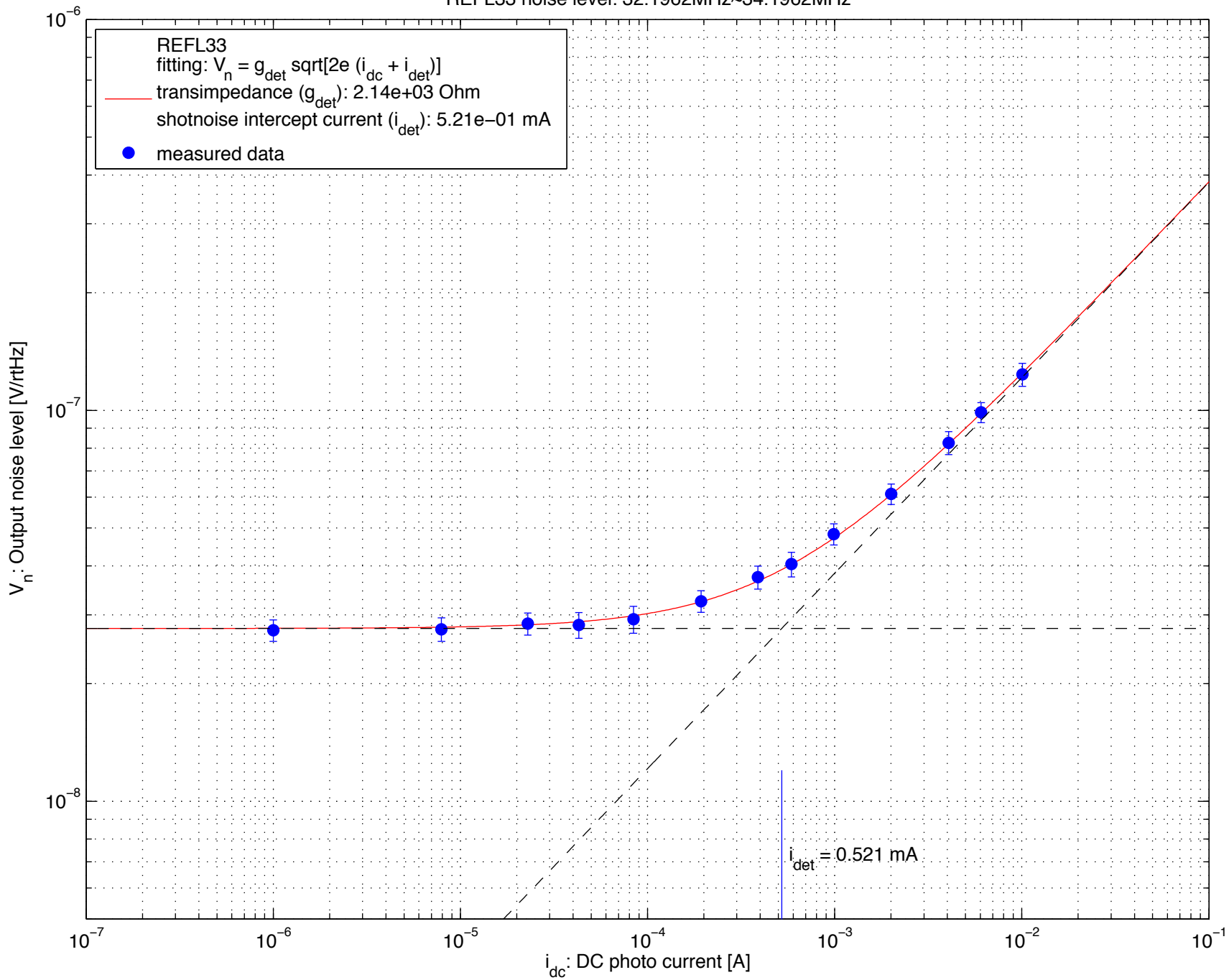


Title <b>LSC Photodiode</b>		Date Last Modified: 17-May-99	
LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology			
Size: B	DCC Number: D980454-01-C	PCB / SCH Revision: B / 1	Engineer: J. Suina D. Ouimette
File: S:\SYSTEMS\LSCPHOTOD-1\FINAL\SCHEMA-1\8045401A.SCH		Date: 12-Aug-1999	Time: 16:56:25
		Sheet 2 of 2	

REFL33 (2011/8/3)



REFL33 noise level: 32.1962MHz~34.1962MHz



PD current noise level

