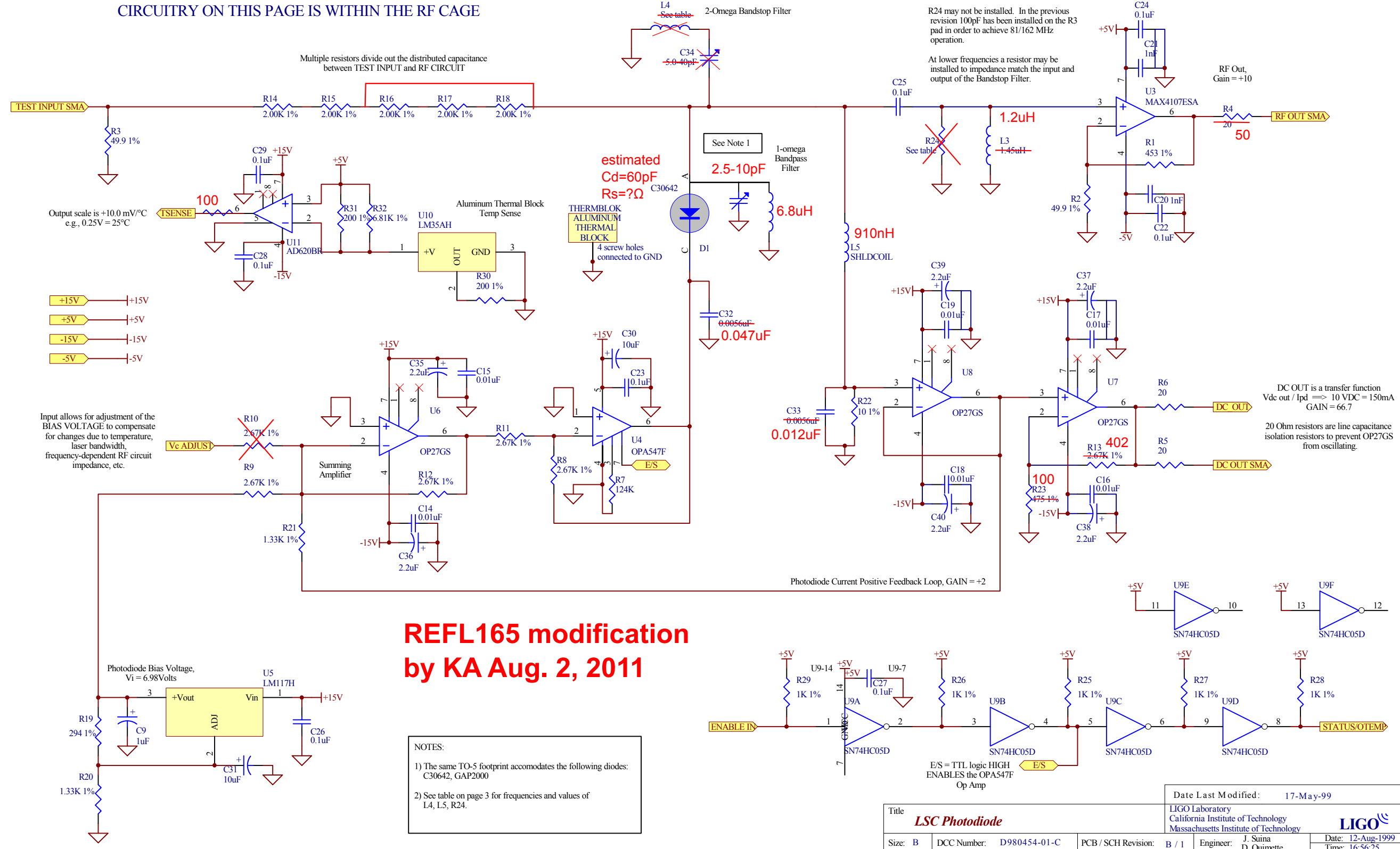


CIRCUITRY ON THIS PAGE IS WITHIN THE RF CAGE



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.

**REFL165 modification
by KA Aug. 2, 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.

Title LSC Photodiode		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	

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.

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.

E/S = TTL logic HIGH
ENABLES the OPA547F
Op Amp