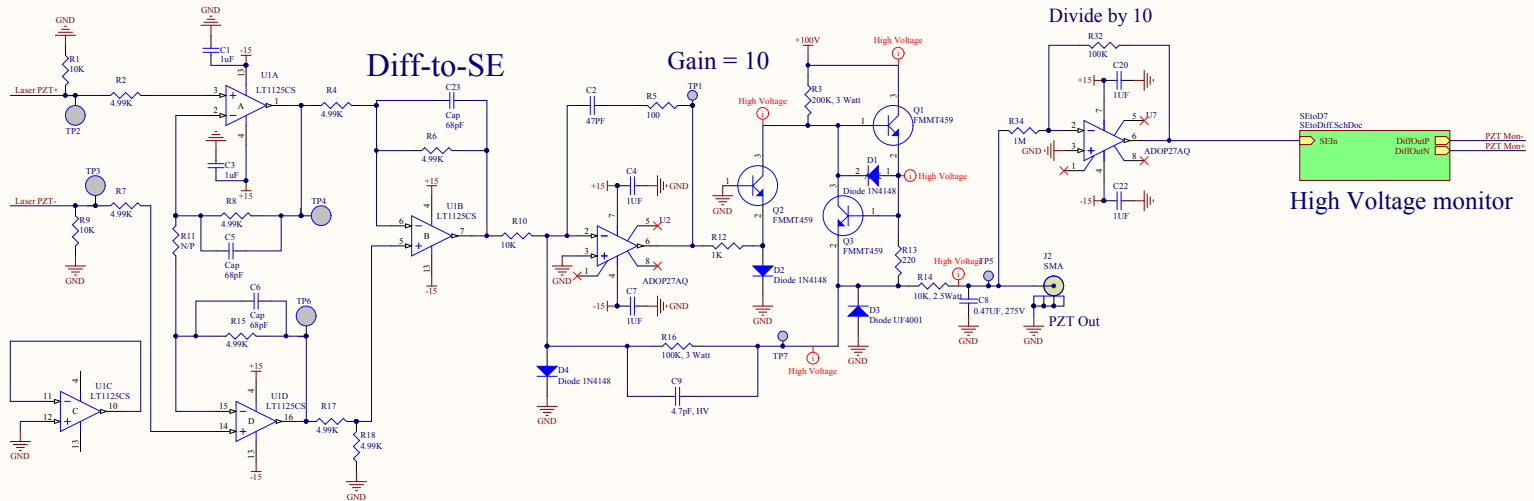
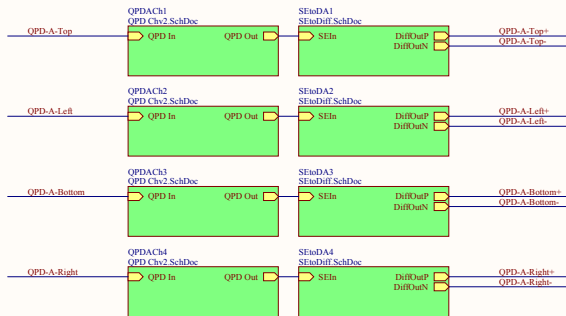
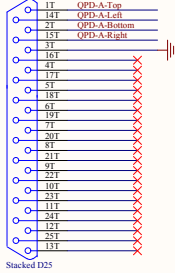


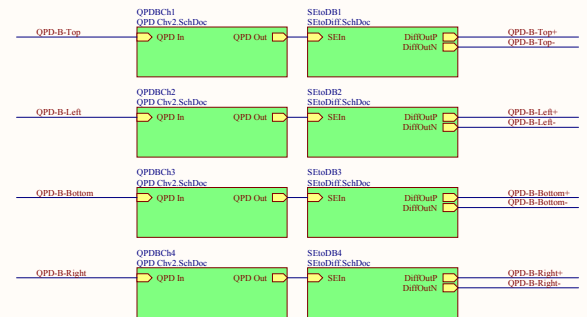
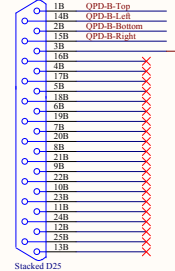
v2 changes the polarity of the PZT input to take into account the inherent reversal.



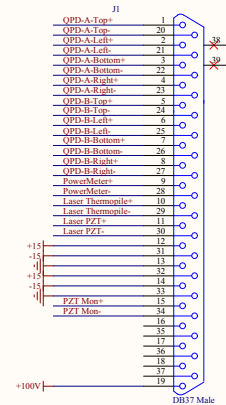
QPD-A



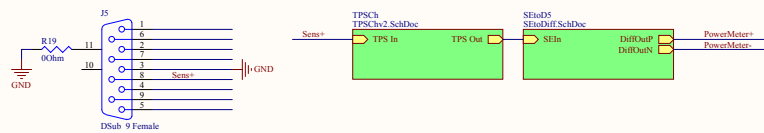
QPD-B



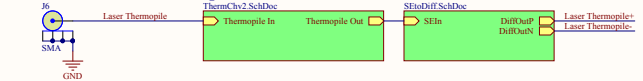
To Back Board



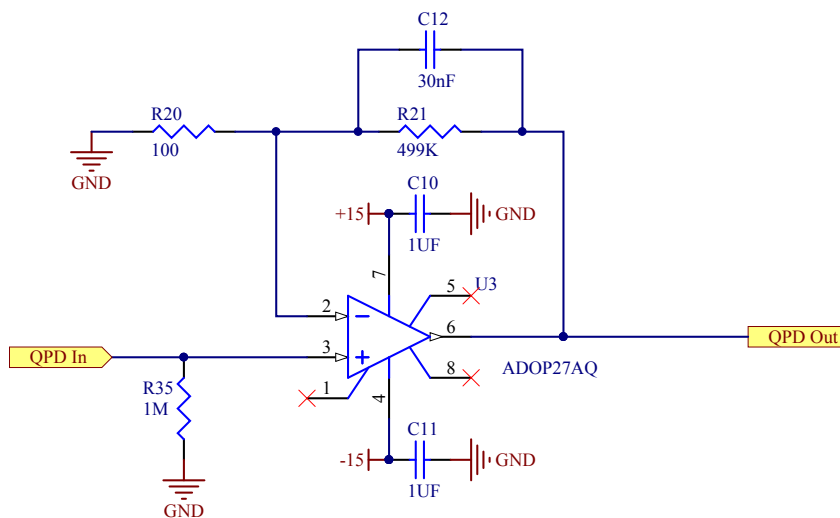
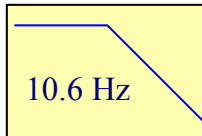
Thermal Power Sensor




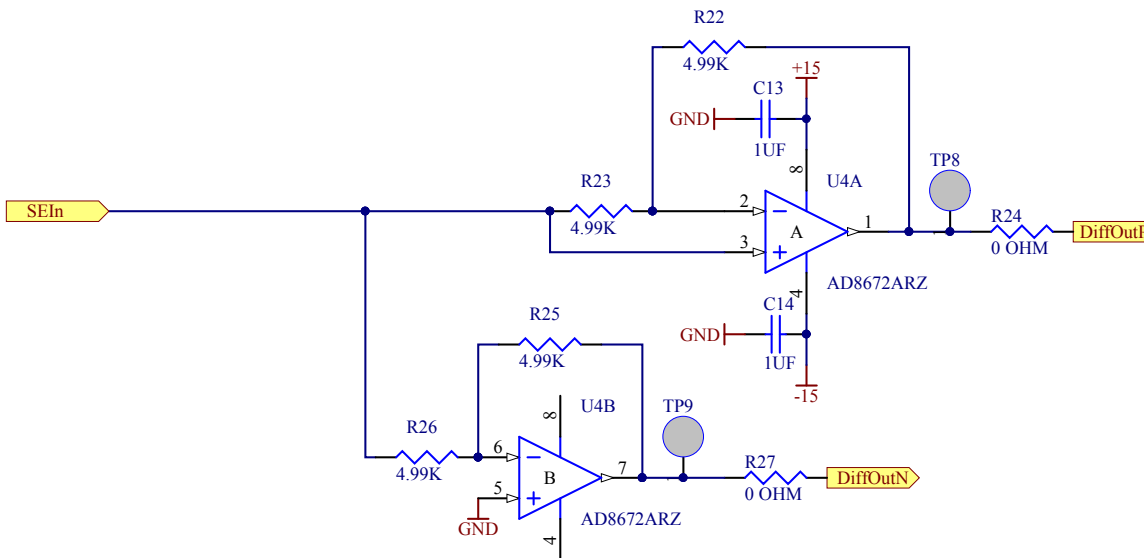
Laser Thermopile



Thermal Quadrant Photodiode Channel
 DC Gain = 5,000



Title <i>QPD Channel</i>			
Size: A	DCC Number: D1300650		<i>Ligo Project</i> <i>California Institute of Technology</i> <i>Massachusetts Institute of Technology</i> 
Drawn by: Ben Abbott	Date: 2/4/2014	Revision: v2	
File: C:\restored\Ben\AOS\TCS Stuff\TCS ISS Chassis\Interface Board\QPD\Title 2.5.0049 PM Sheet 2 of *			



Title **SE to Diff**

Size: **A**

DCC Number: **D1300650**

Ligo Project
California Institute of Technology
Massachusetts Institute of Technology



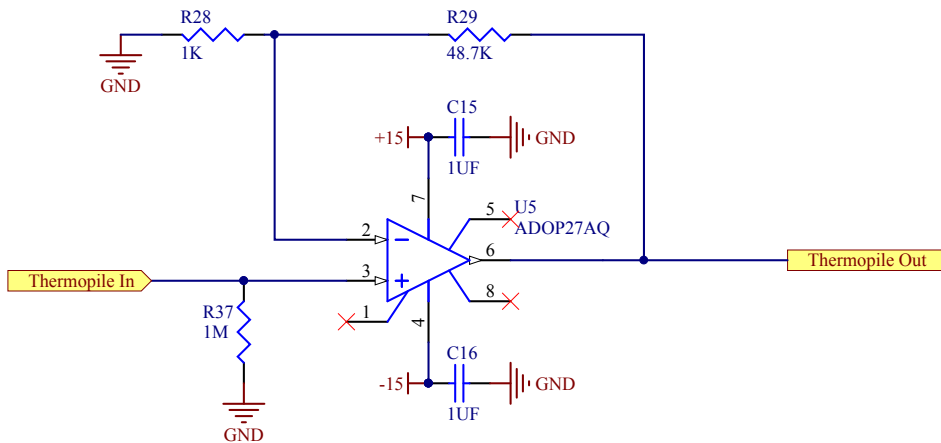
Drawn by:
Ben Abbott


Date: **2/4/2014**

Revision: **V1**

Laser Thermopile Channel

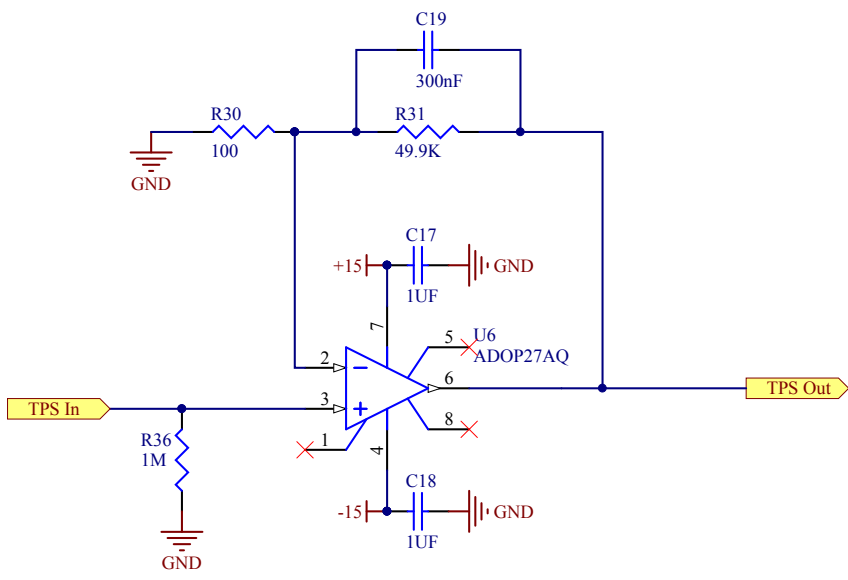
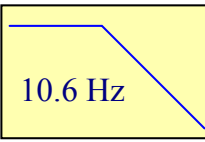
DC Gain = 50



Title <i>Therm Channel</i>			
Size: A	DCC Number: D1300650		<i>Ligo Project</i> <i>California Institute of Technology</i> <i>Massachusetts Institute of Technology</i> 
Drawn by: Ben Abbott	Date: 2/4/2014	Revision: v2	
File: C:\restored\Ben\AOS\TCS Stuff\TCS ISS Chassis\Interface Board\Therm by 250614c Sheet 4 of *			

Thermal Power Sensor Channel

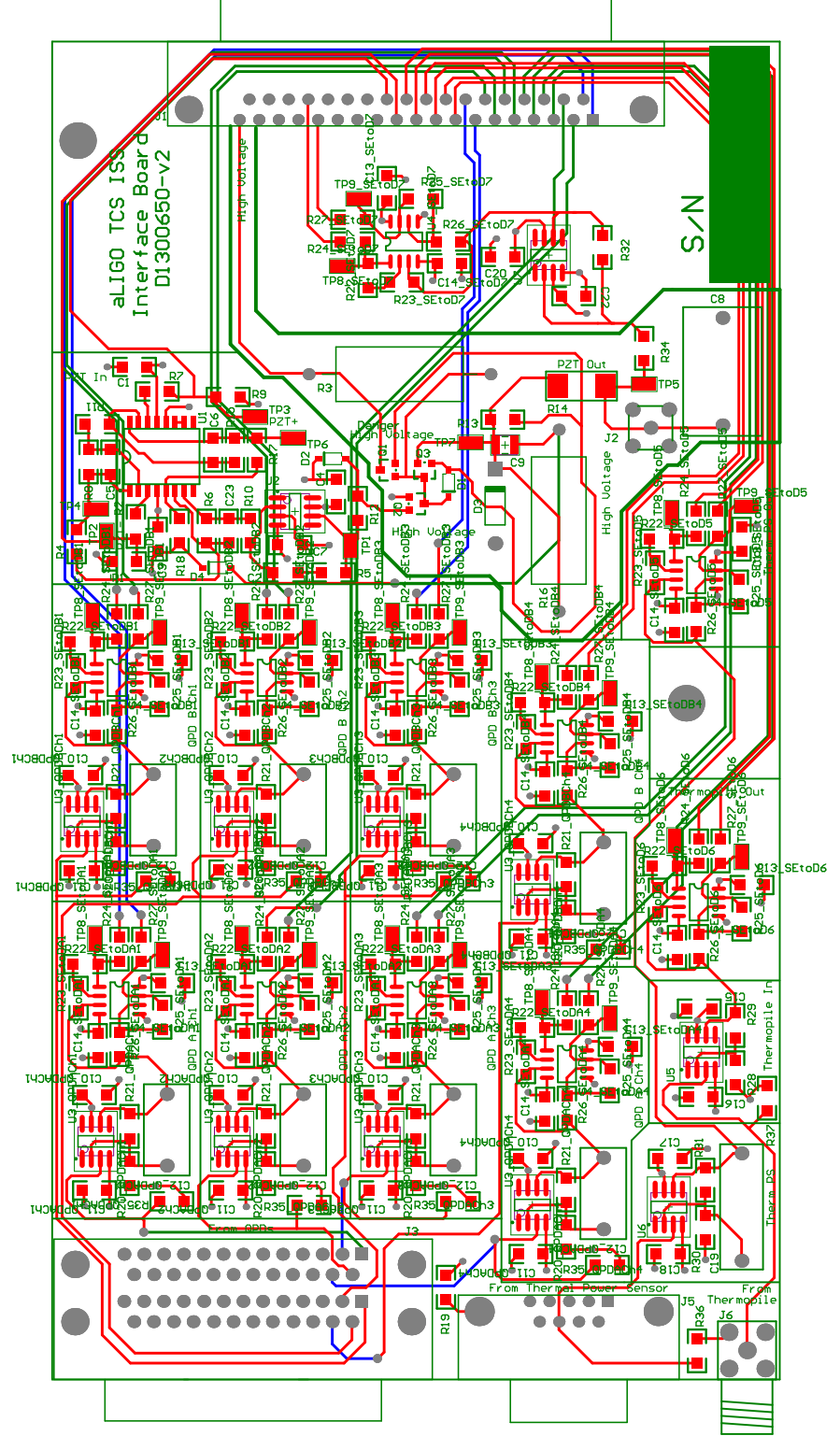
DC Gain = 500



Title TPS Channel			
Size: A	DCC Number: D1300650		<i>Ligo Project</i> <i>California Institute of Technology</i> <i>Massachusetts Institute of Technology</i>
Drawn by: Ben Abbott	Date: 2/4/2014	Revision: v2	
File: C:\restored\Ben\AOS\TCS Stuff\TCS ISS Chassis\Interface Board\TPS Channel.sch Time: 5:06:49 PM Sheet 5 of *			



aLIGO TCS ISS
Interface Board
D1300650-v2



S/N

From Thermopile Power Sensor

Thermopile In

J5 J6

R26 R27

C10 C11

U3 U4

R28 R29

C12 C13

U5

R30 R31

C14

R32 R33

C15

R34 R35

C16

R36 R37

C17

R38 R39

C18

R40 R41

C19

R42 R43

C20

R44 R45

C21

R46 R47

C22

R48 R49

C23

R50 R51

C24

R52 R53

C25

R54 R55

C26

R56 R57

C27

R58 R59

C28

R60 R61

C29

R62 R63

C30

R64 R65

C31

R66 R67

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R68 R69

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R70 R71

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R72 R73

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R74 R75

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R76 R77

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R84 R85

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R102 R103

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R104 R105

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R106 R107

C52

R108 R109

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R110 R111

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R112 R113

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R322 R323

C160

R324 R325

C161

R326 R327

C162