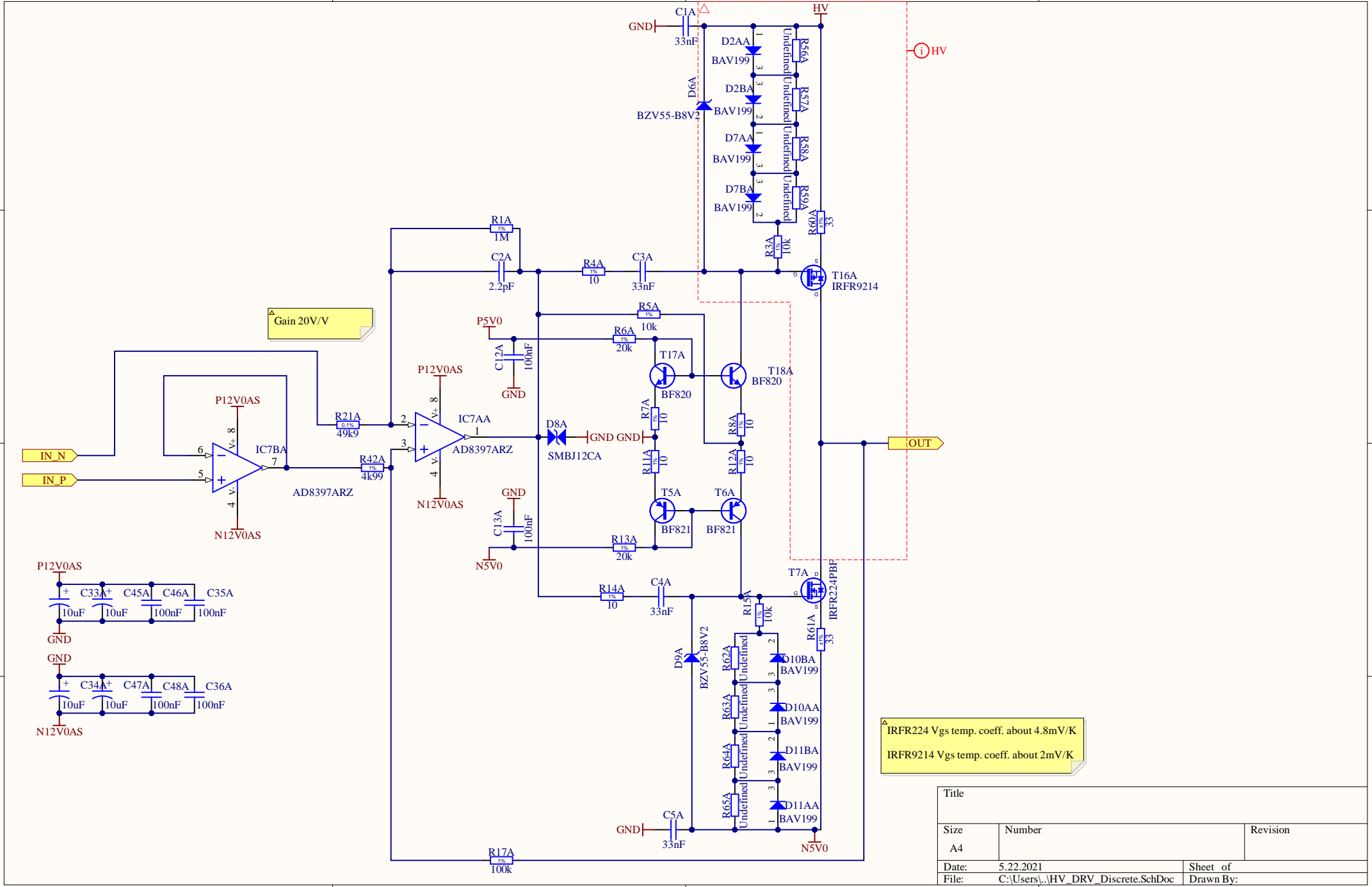
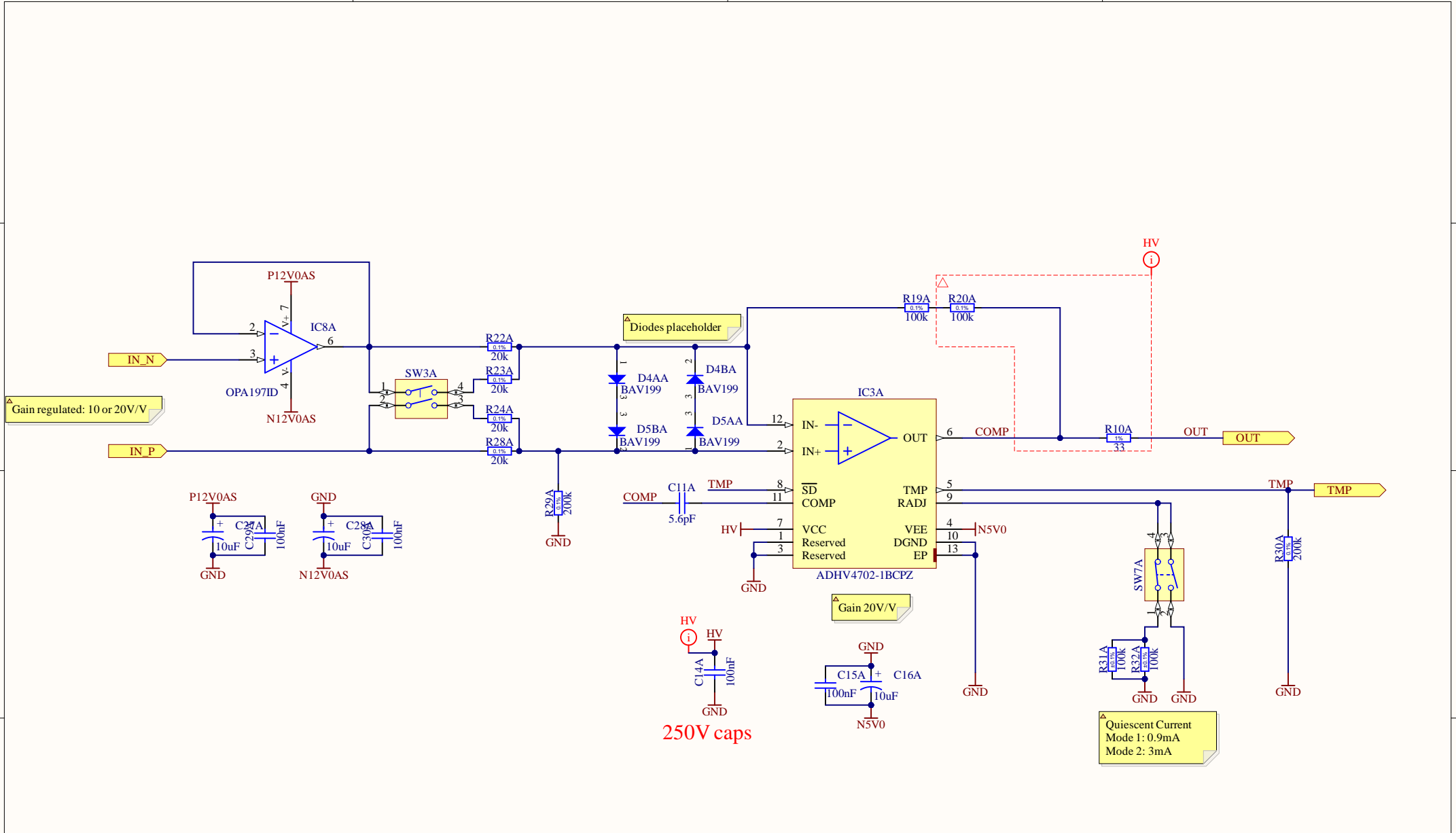


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Date:	5.22.2021	Sheet of
File:	C:\Users\...\Offset_Selector.SchDoc	Drawn By:



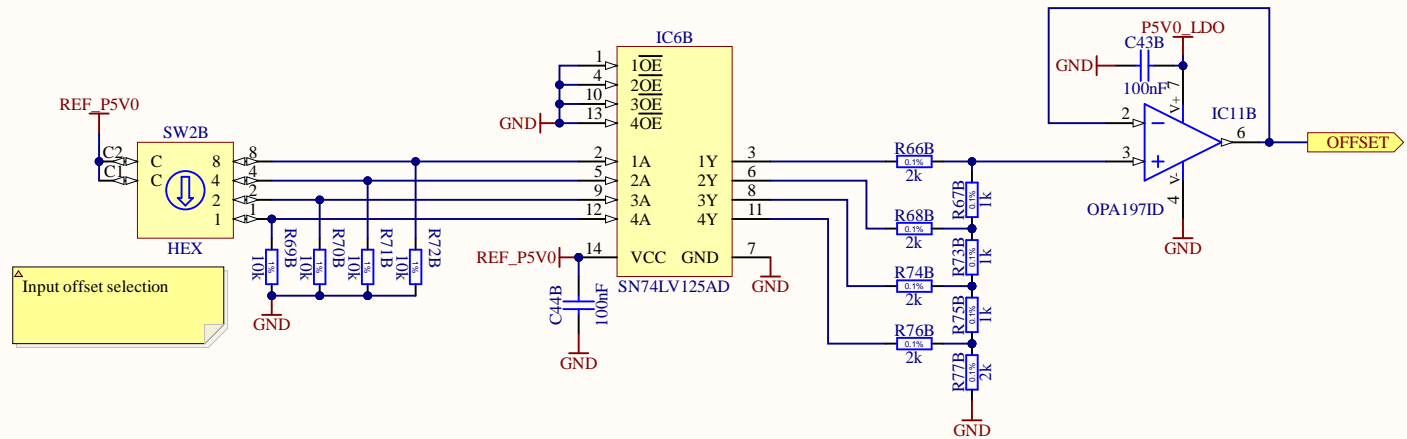
IRFR224 Vgs temp. coeff. about 4.8mV/K
IRFR9214 Vgs temp. coeff. about 2mV/K

Title		
Size	Number	Revision
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Date:	5.22.2021	Sheet of
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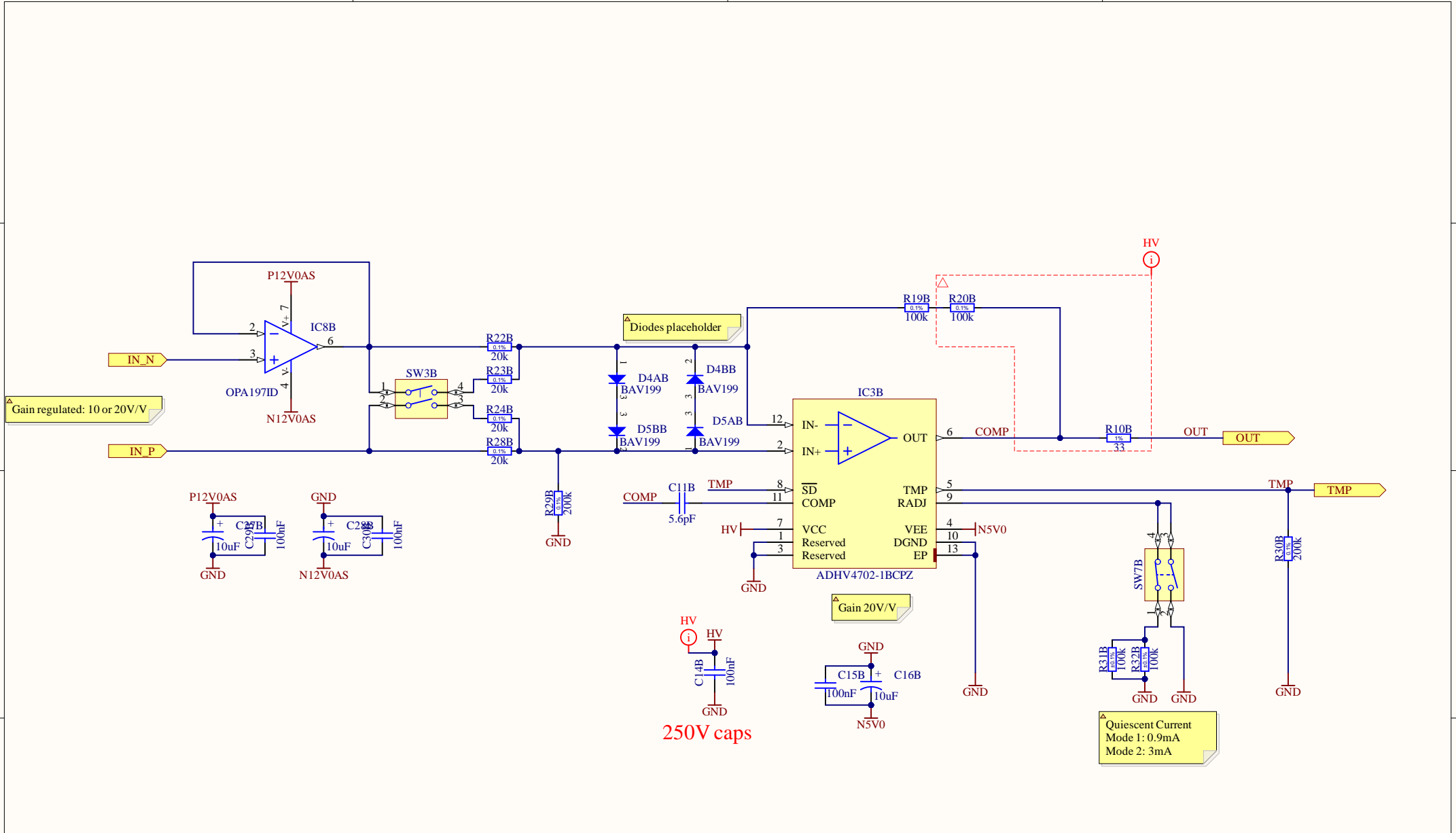


250V caps

Title		
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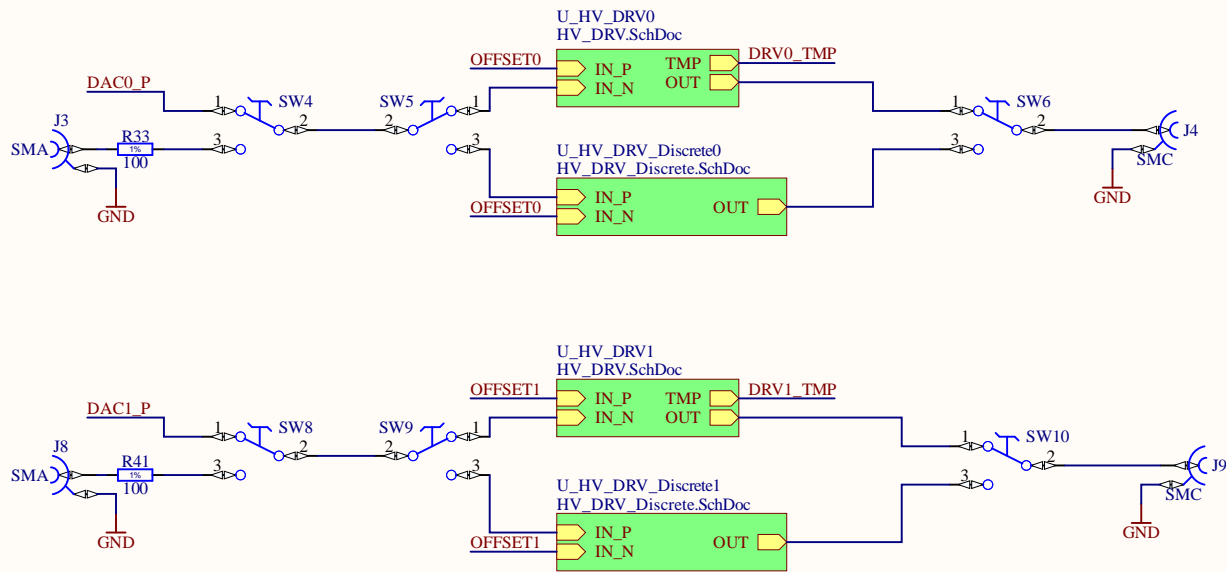
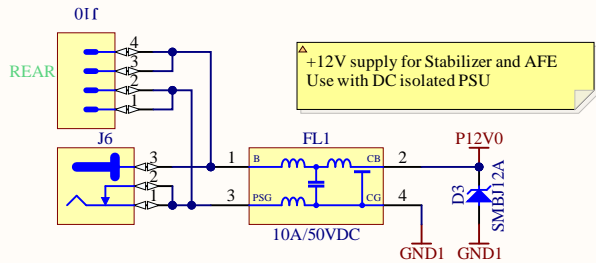


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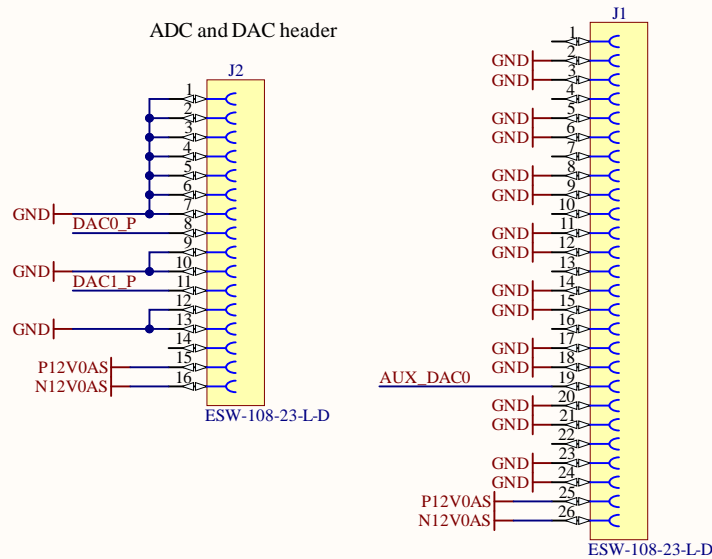


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Front Panel Connectors

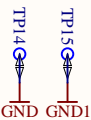
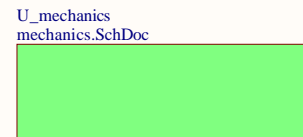
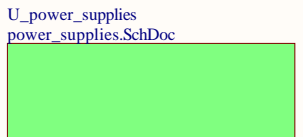
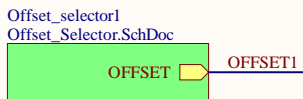
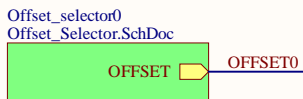
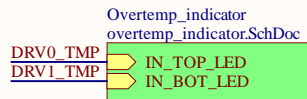
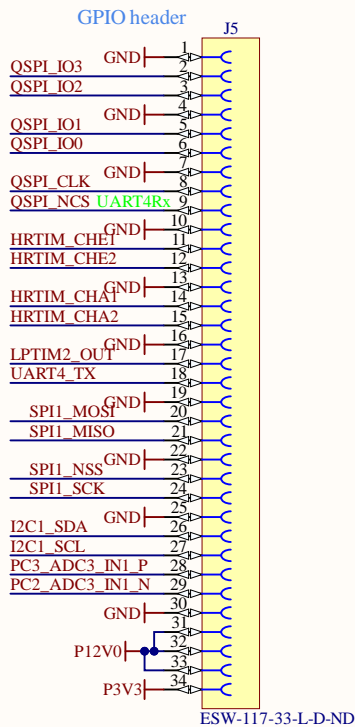


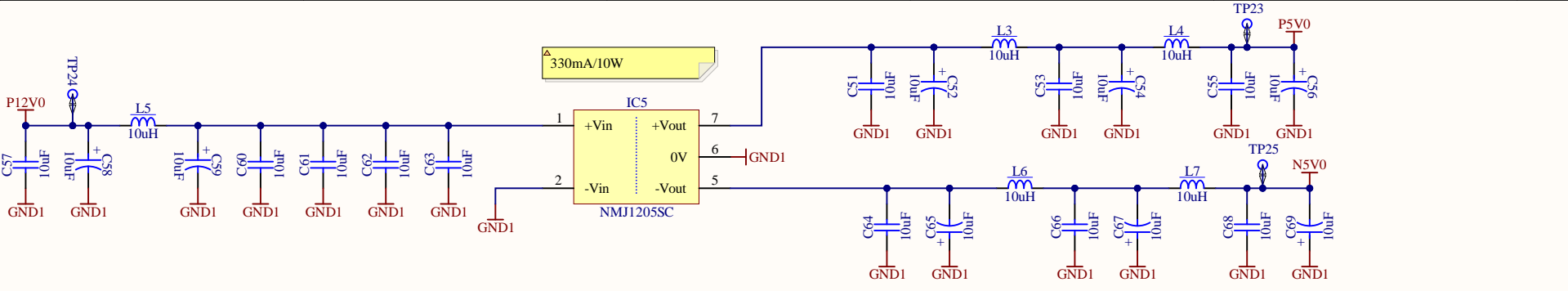
ADC and DAC header



To ensure reliable contact, mount board-board connectors 1.25mm +/-0.25mm from board surface

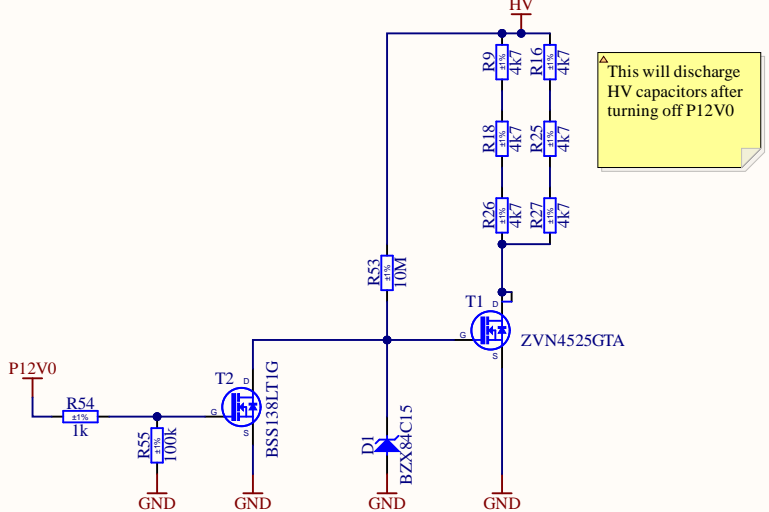
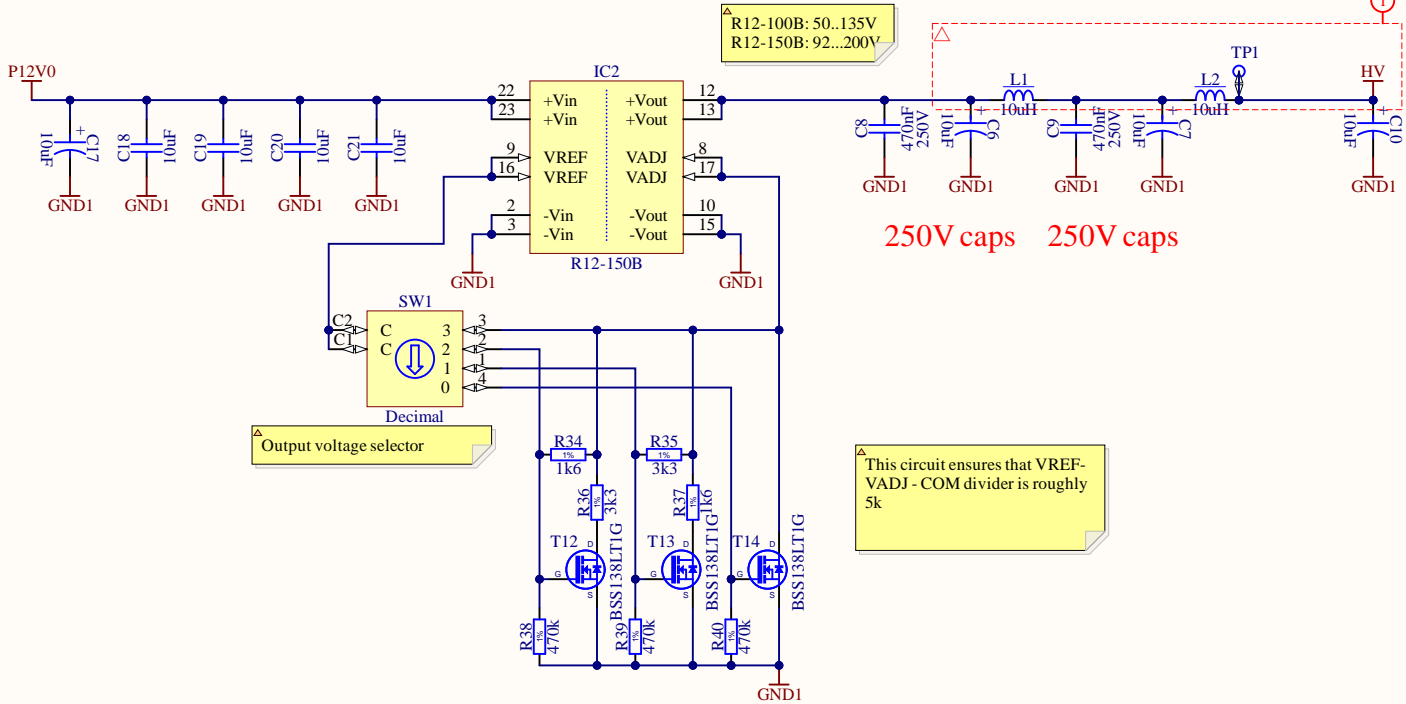
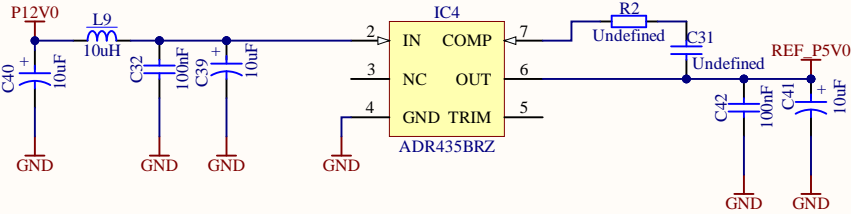
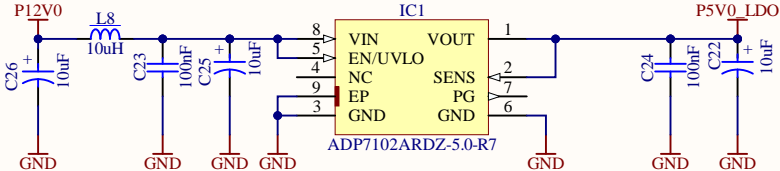
GPIO Header



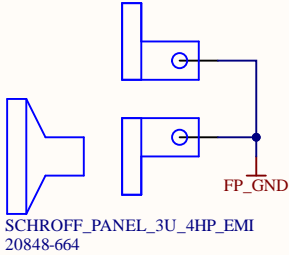


	HV rail	12V rail	5V rail	3V3 rail	-5V rail
ADHV4702-1 x2					
Quiescent current*		6mA			6mA
Load max**		19mA			20mA
OPA197 x4					
Quiescent current				4mA	4mA
Load max**				40mA	40mA
AD8397					
Quiescent current				18mA	18mA
LM75A x2					
Supply current					1mA
Sink current					0.33mA
Total current		25mA	0mA	62mA	1.33mA
Power from rail		5.00W	0.00W	0.31W	0.00W
Conv. Eff.		82%	100%	60%	28%
Power losses		1.10W	0.00W	0.21W	0.01W
Rail power		6.10W	0.00W	0.52W	0.02W
Total power losses		1.61W			
Total Power		7.36W		613.63mA@12V	

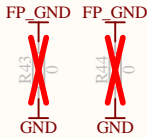
*Max
**Max constant load



ST2



⚠ Populate to connect panel ground to circuit ground if a ground connection is not present elsewhere.

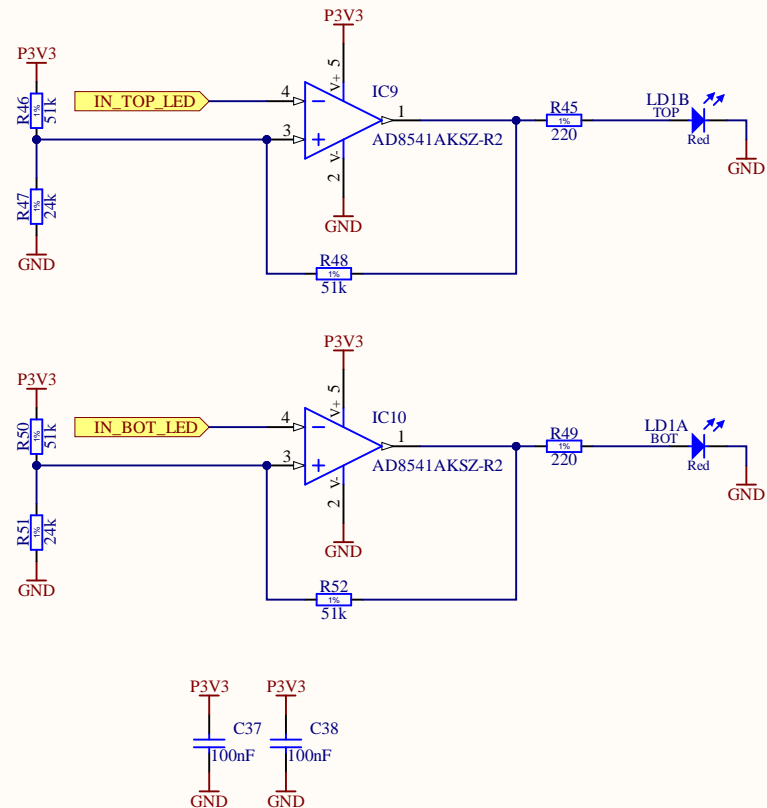


⚠ When mounting, ensure that AFE and Stabilizer panels are electrically connected (e.g. via connection to chassis)

⚠ Stackup notes:
Top of Stabilizer to bottom of AFE: 5.08*4-1.6 = 18.72mm
Stabilizer to connector mating plane: 3.48mm
Required AFE board-board connector length: <=15.24mm (0.6in)
Samtec ESW-1xx-23-L-D has a connector length of 13.59mm (0.535in)

⚠ Stackup is 4HP=20.32mm
Top of stabilizer to bottom of AFE is 18.72mm
Spacer + washer gives 18.8mm





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