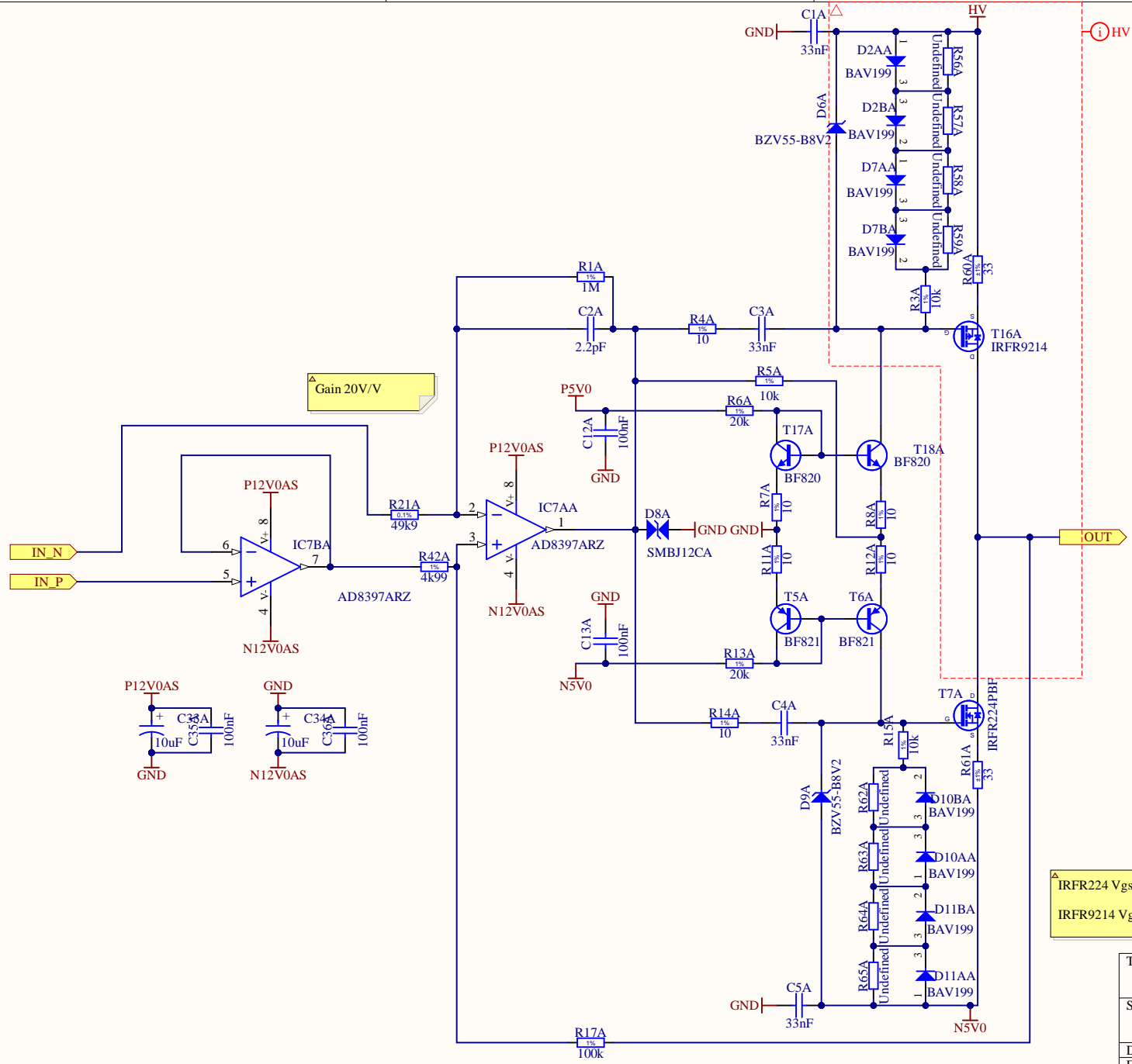


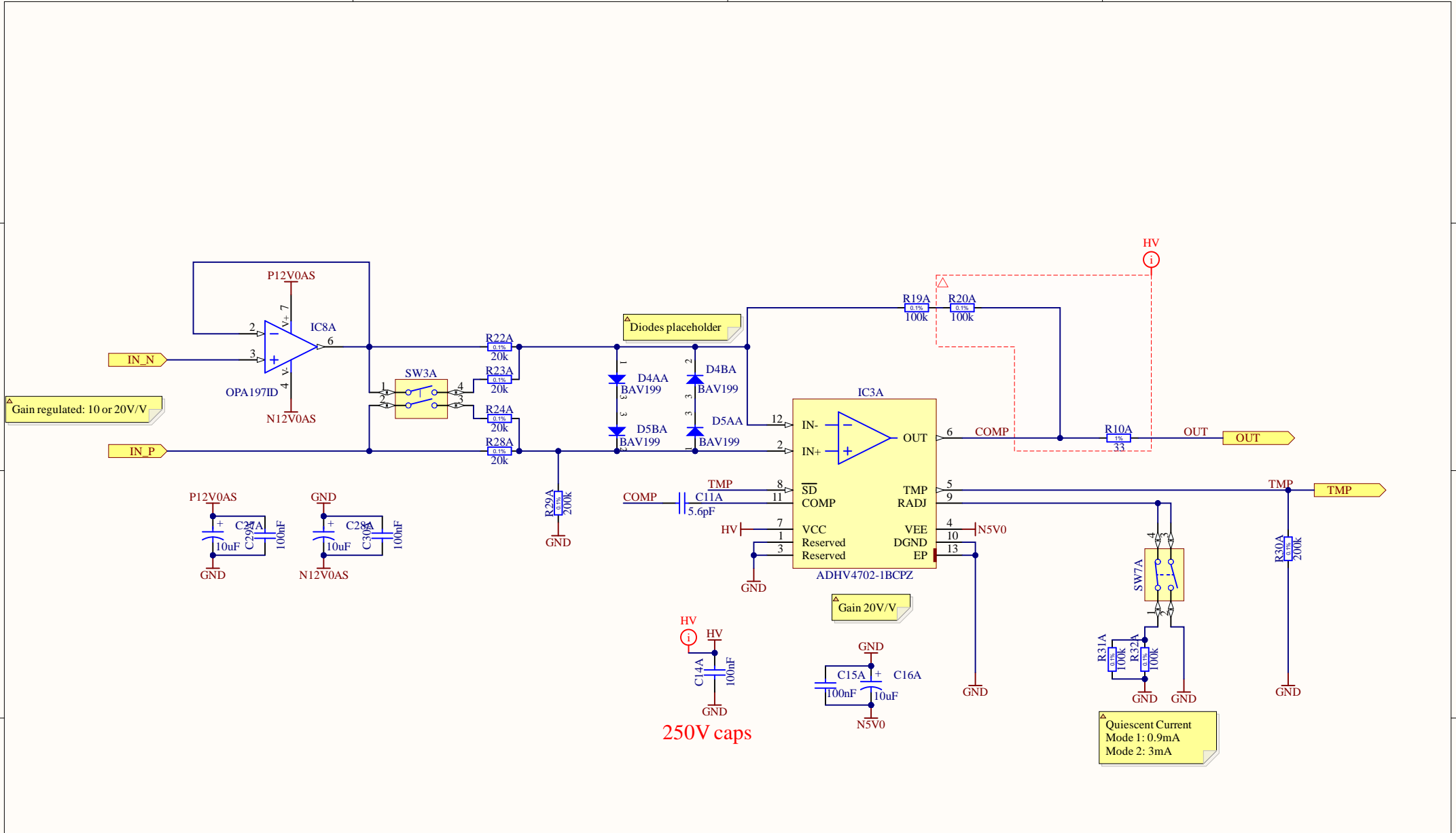
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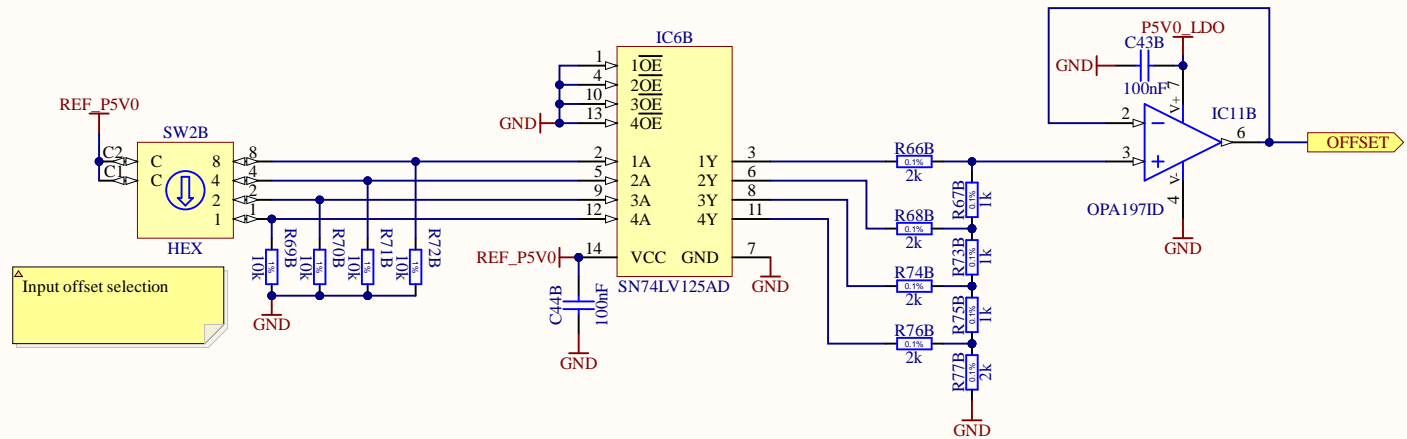
IRFR224 Vgs temp. coeff. about 4.8mV/K

IRFR9214 Vgs temp. coeff. about 2mV/K

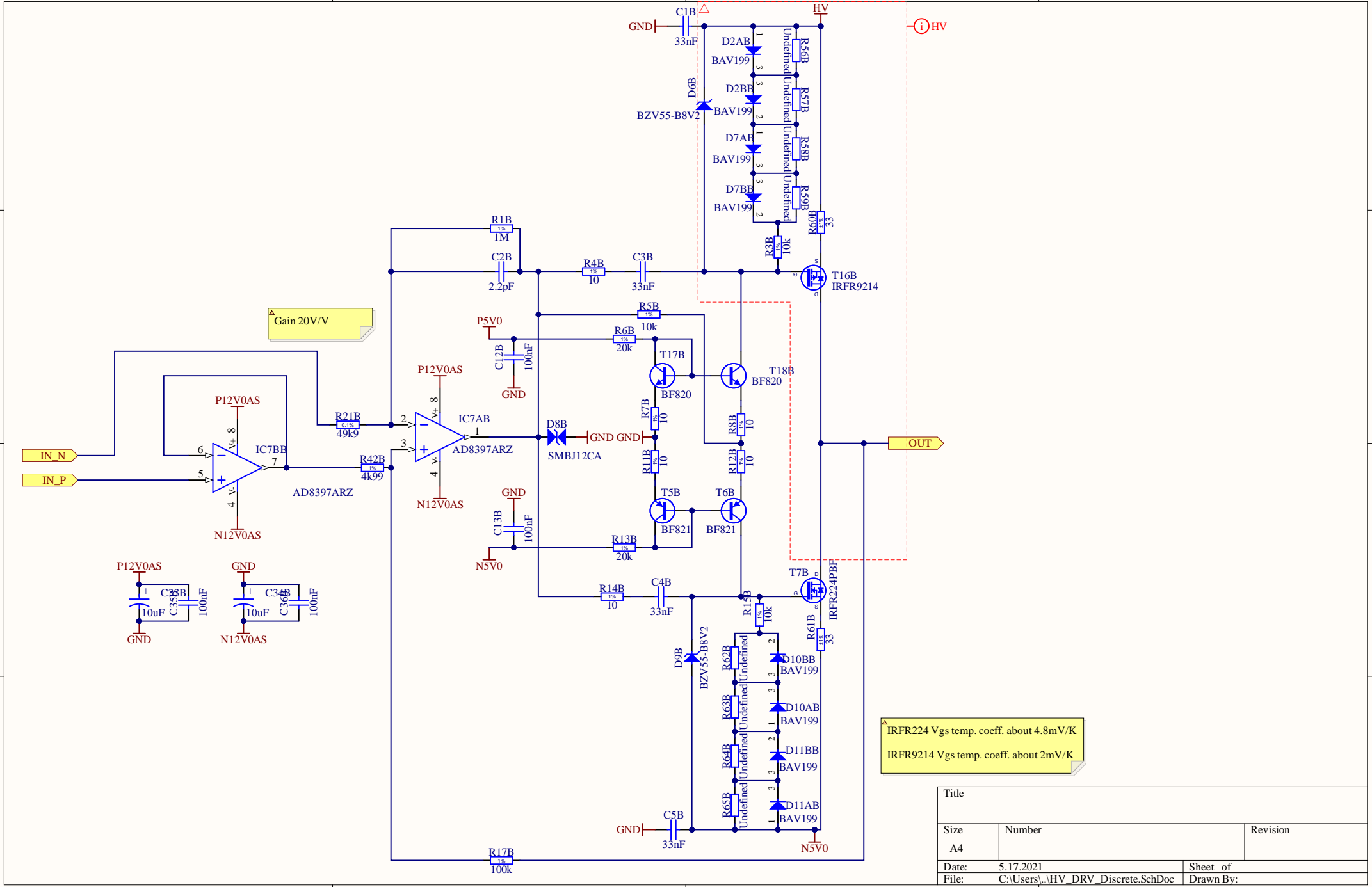
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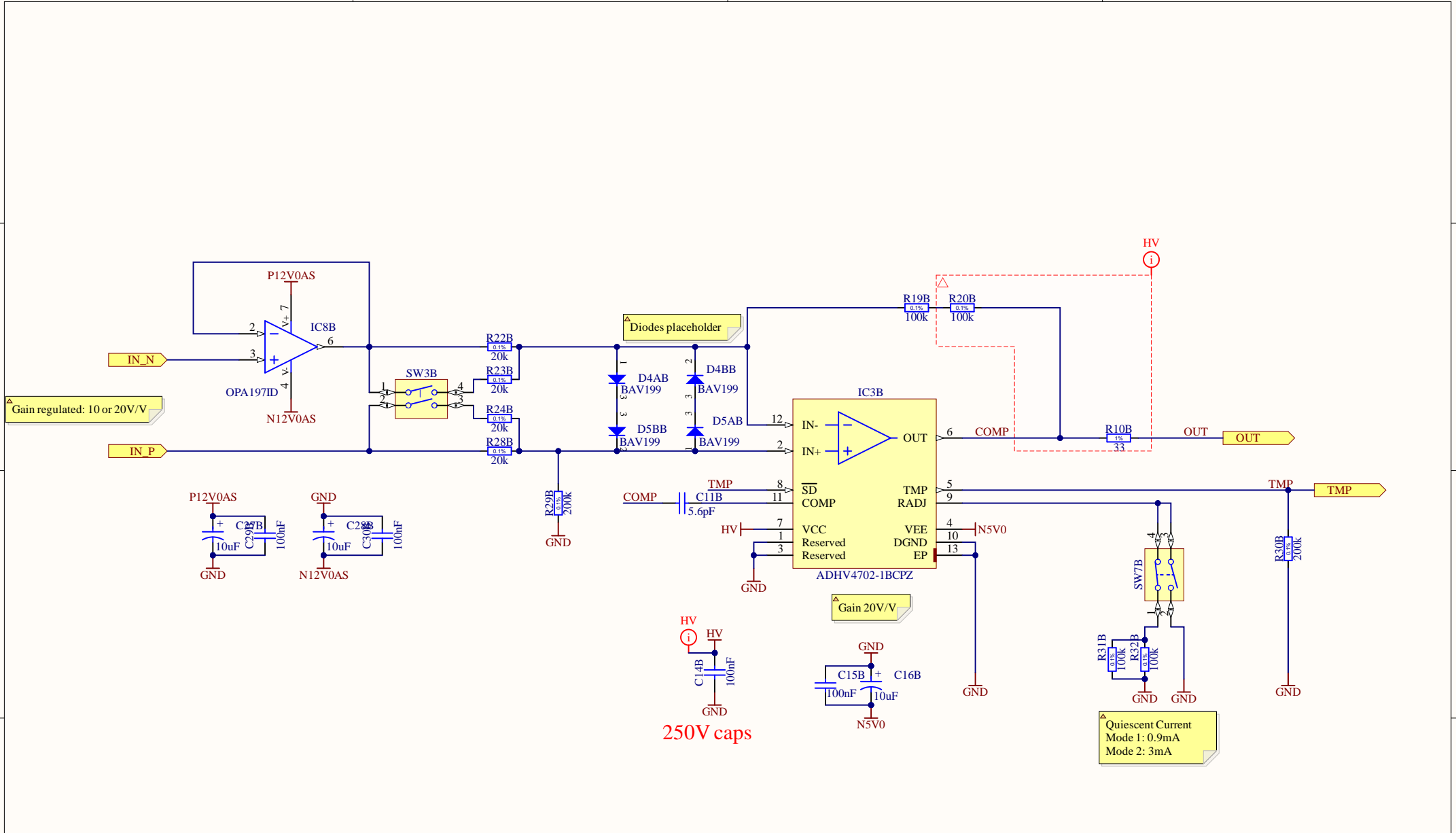


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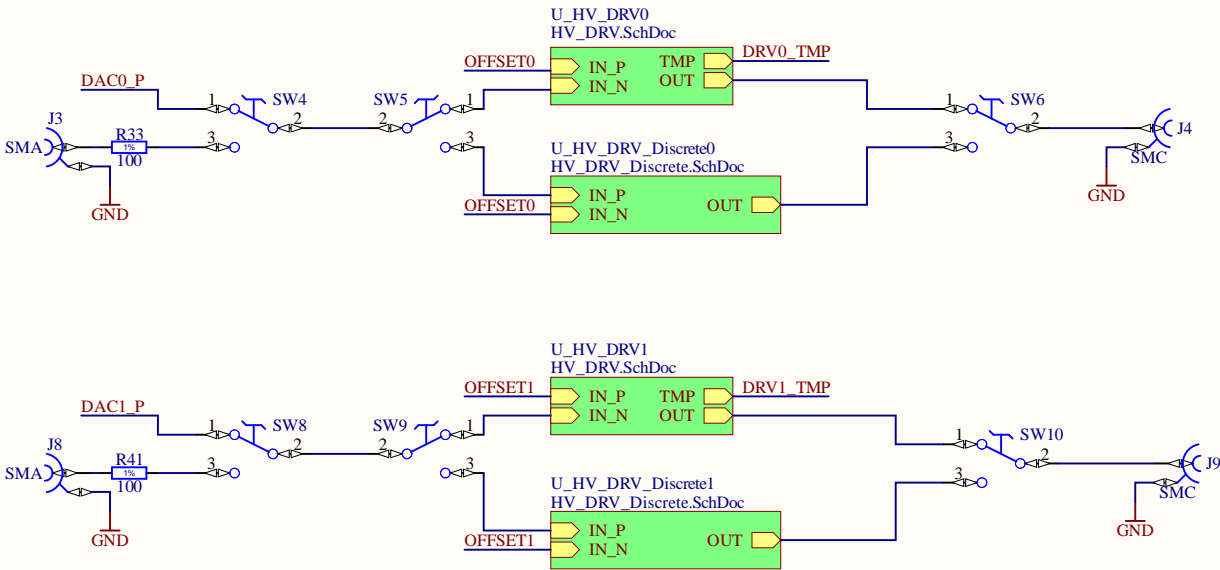
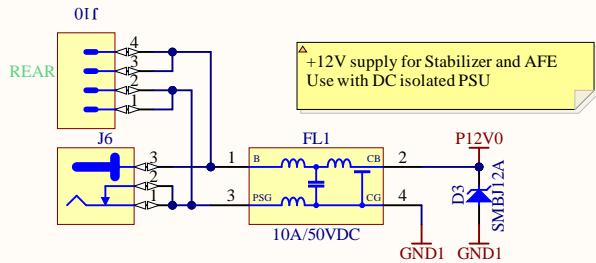
IRFR224 Vgs temp. coeff. about 4.8mV/K
IRFR9214 Vgs temp. coeff. about 2mV/K

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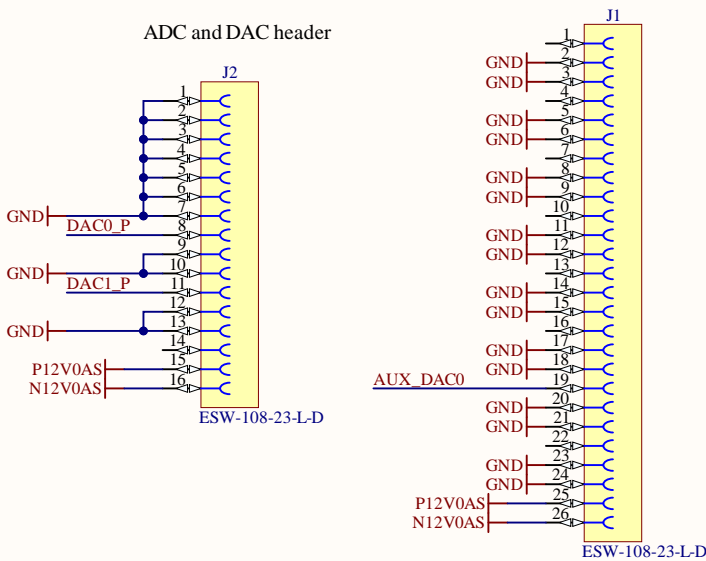


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Front Panel Connectors

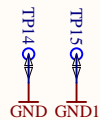
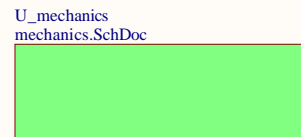
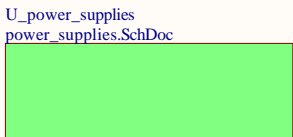
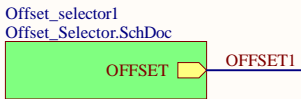
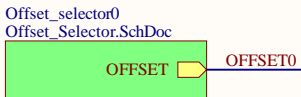
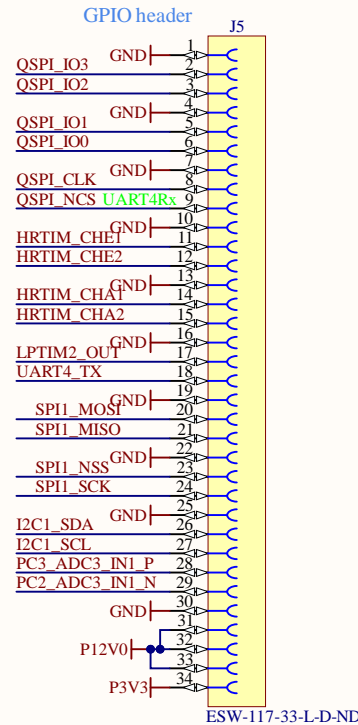


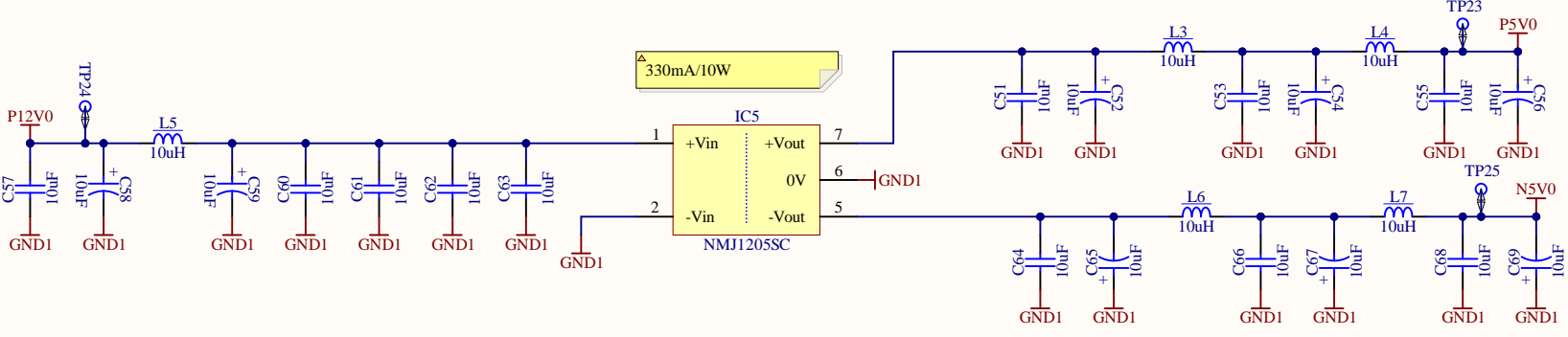
ADC and DAC header



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

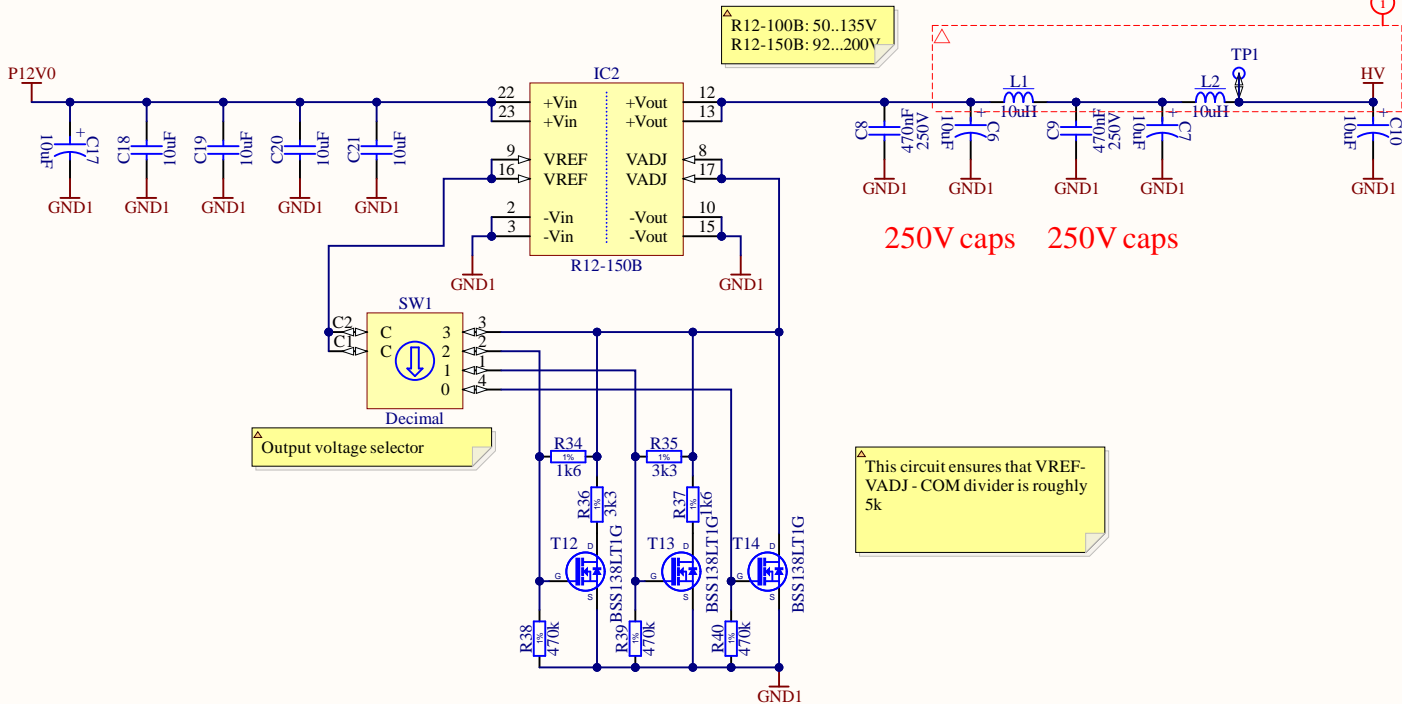
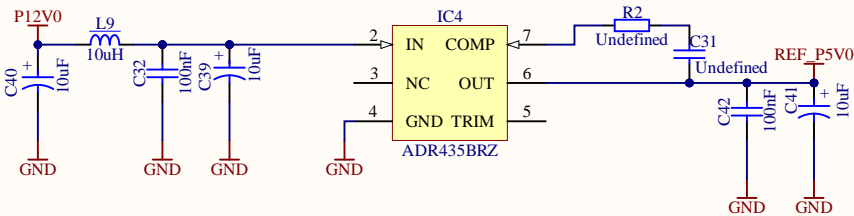
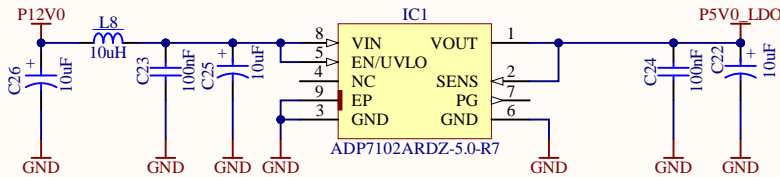
GPIO Header



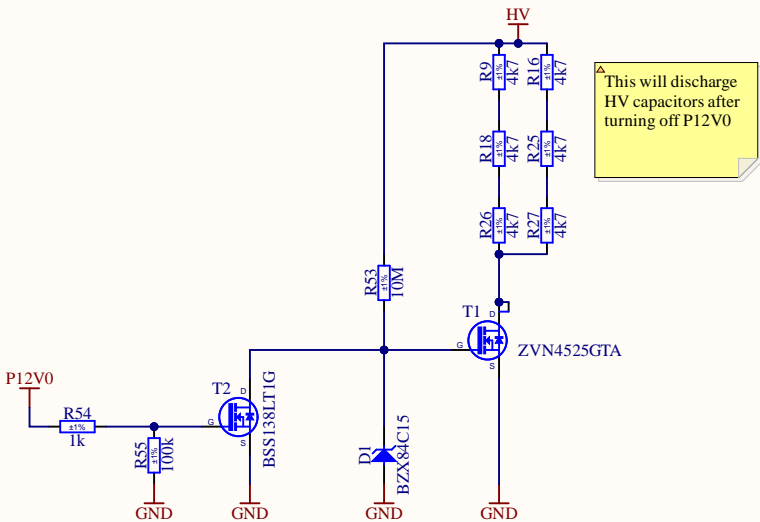


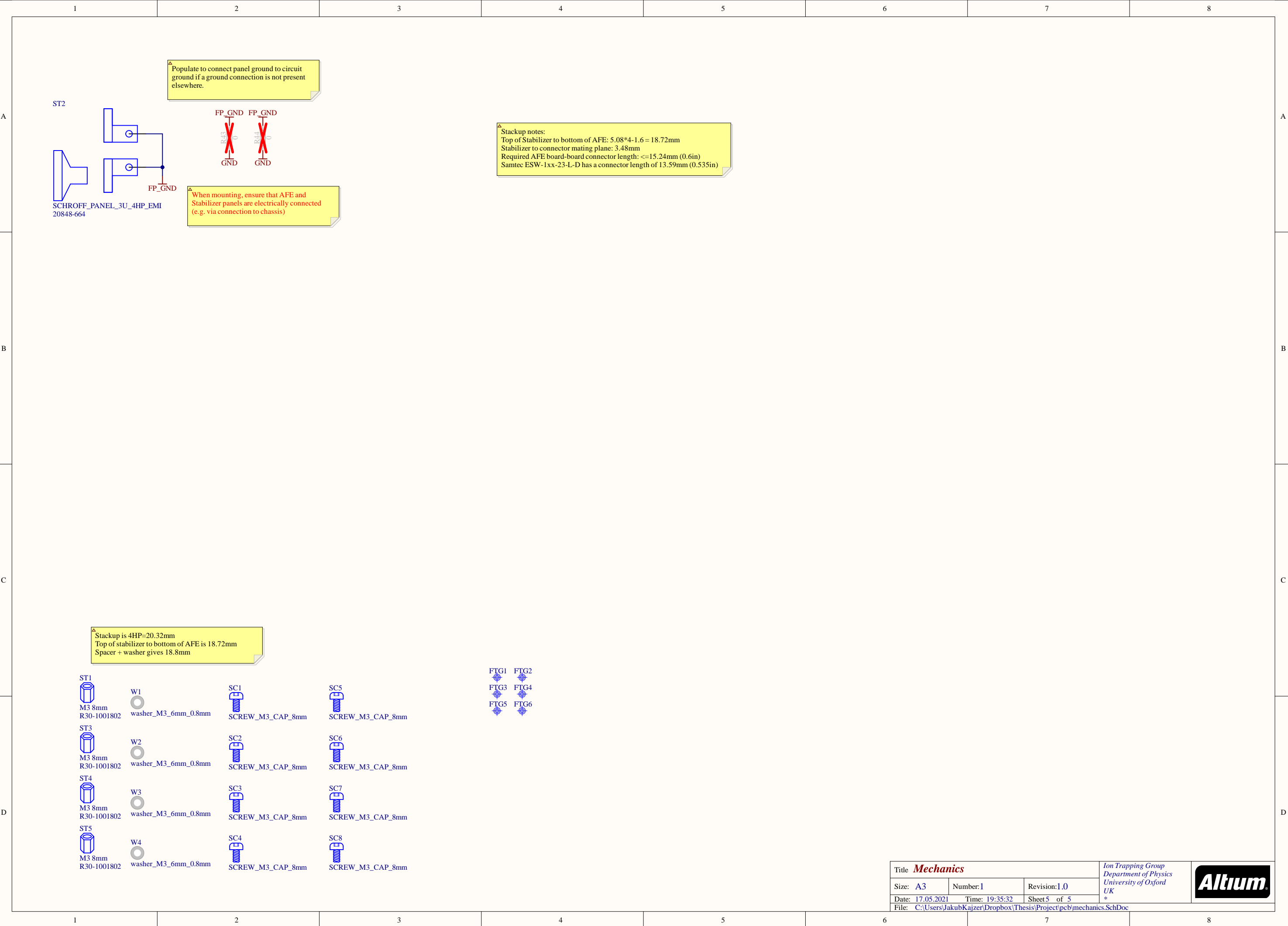
HV rail	12V rail	5V rail	3V3 rail	-5V rail	
ADHV4702-1 x2					
Quiescent current*	6mA				6mA
Load max**	19mA				20mA
OPA197 x4					
Quiescent current			4mA		4mA
Load max**			40mA		40mA
AD8397					
Quiescent current			18mA		18mA
LM75A x2					
Supply current				1mA	
Sink current				0.33mA	
Total current	25mA	0mA	62mA	1.33mA	88mA
Power from rail	5.00W	0.00W	0.31W	0.00W	0.44W
Conv. Eff.	82%	100%	60%	28%	60%
Power losses	1.10W	0.00W	0.21W	0.01W	0.29W
Rail power	6.10W	0.00W	0.52W	0.02W	0.73W
Total power losses	1.61W				
Total Power	7.36W		613.63mA@12V		

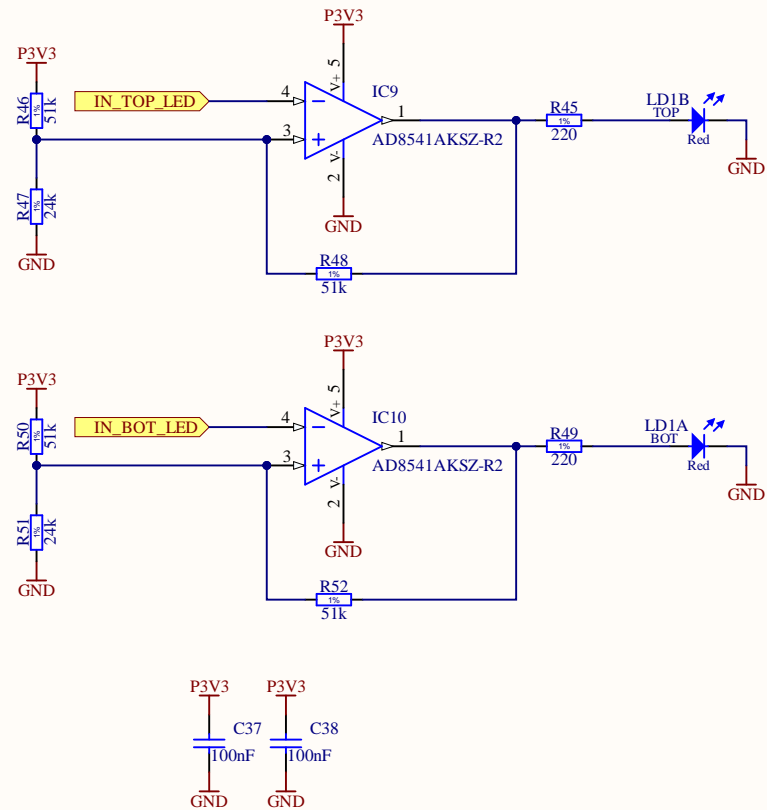
*Max
**Max constant load



This circuit ensures that VREF-VADJ - COM divider is roughly 5k







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