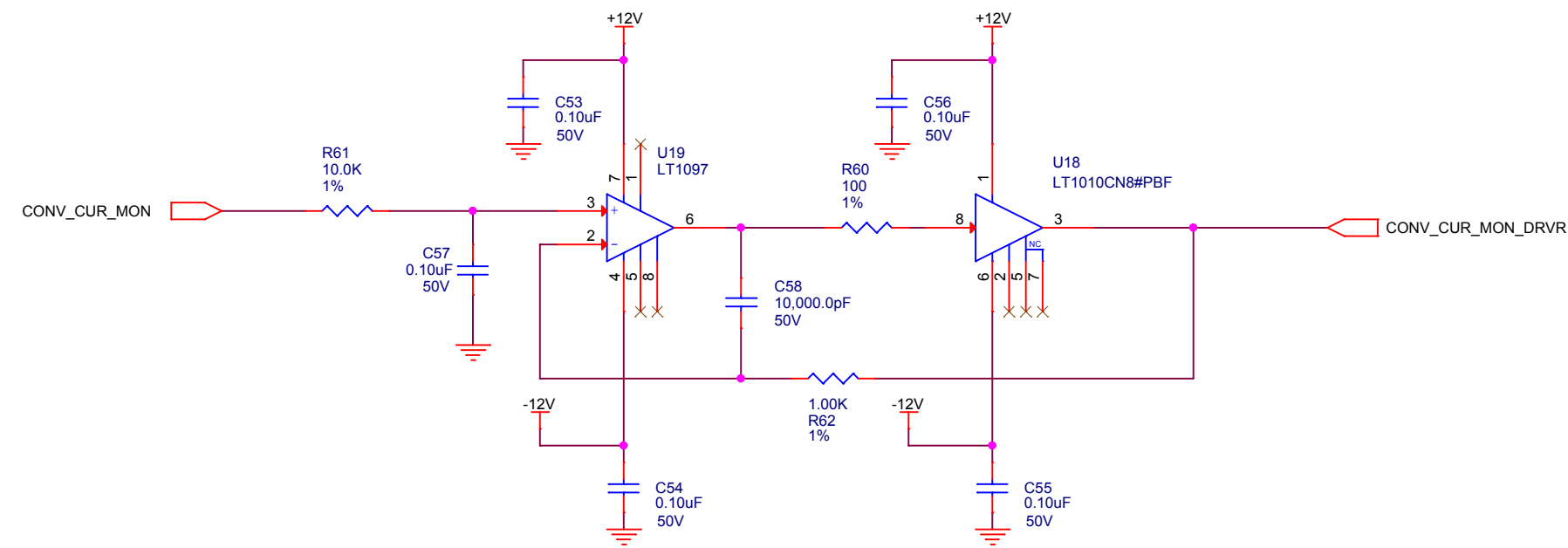
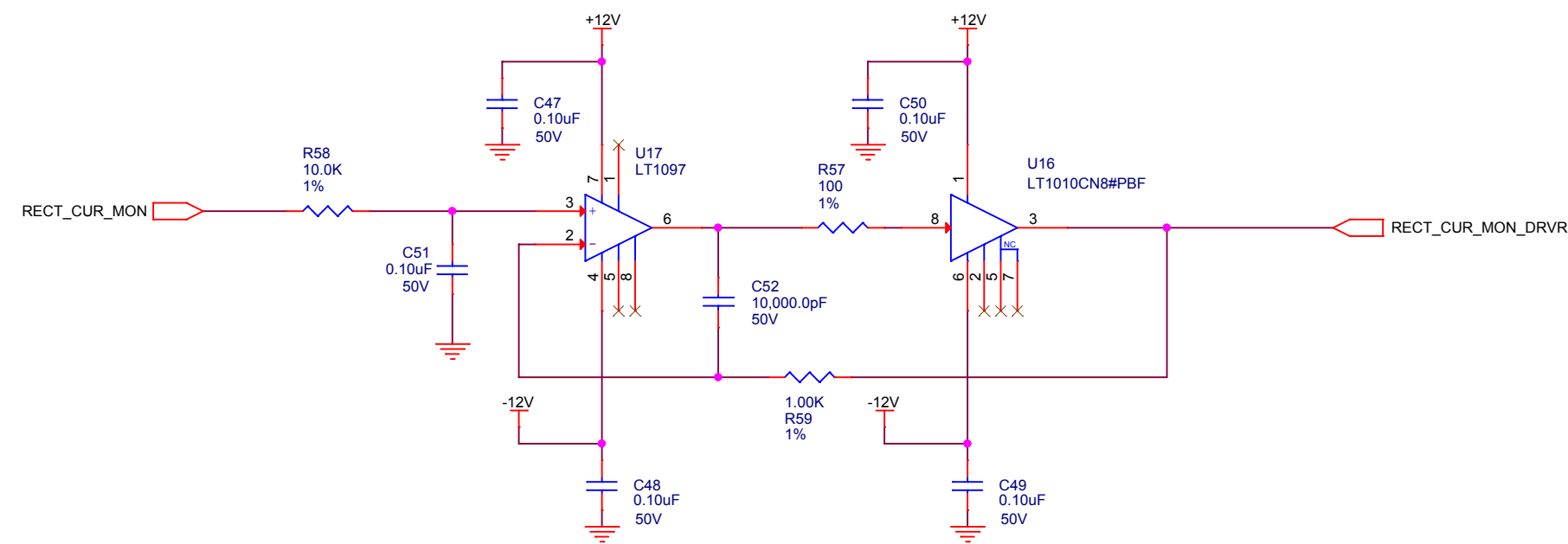
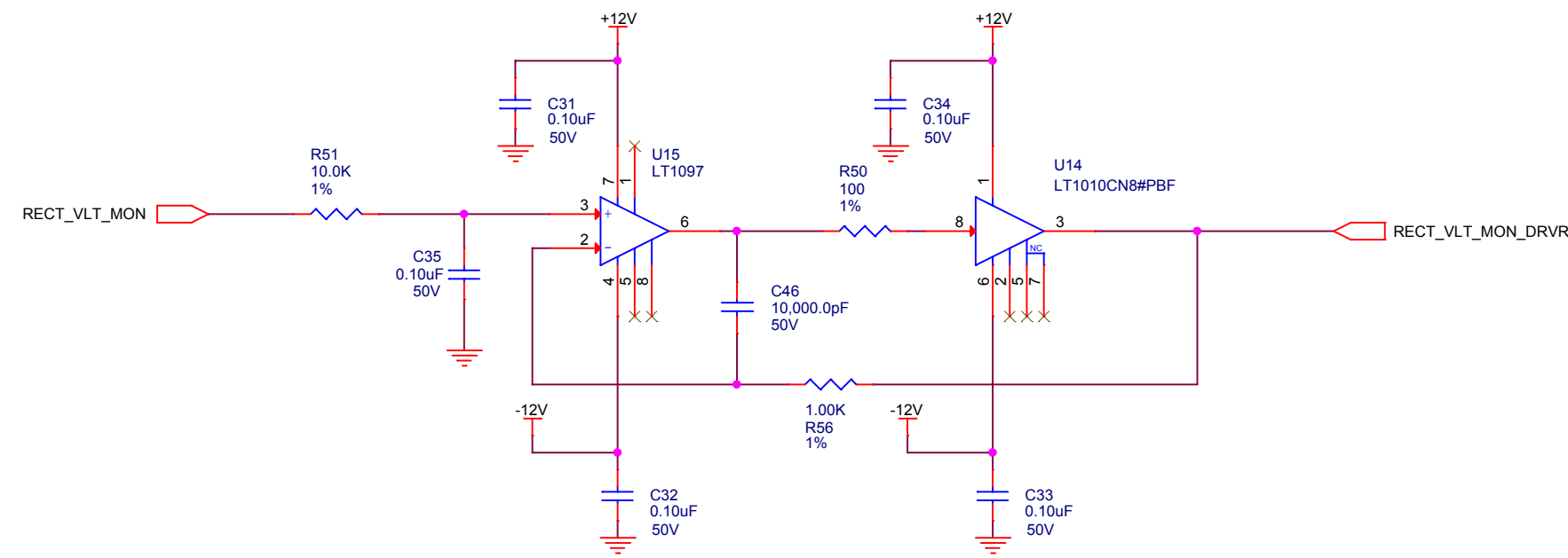
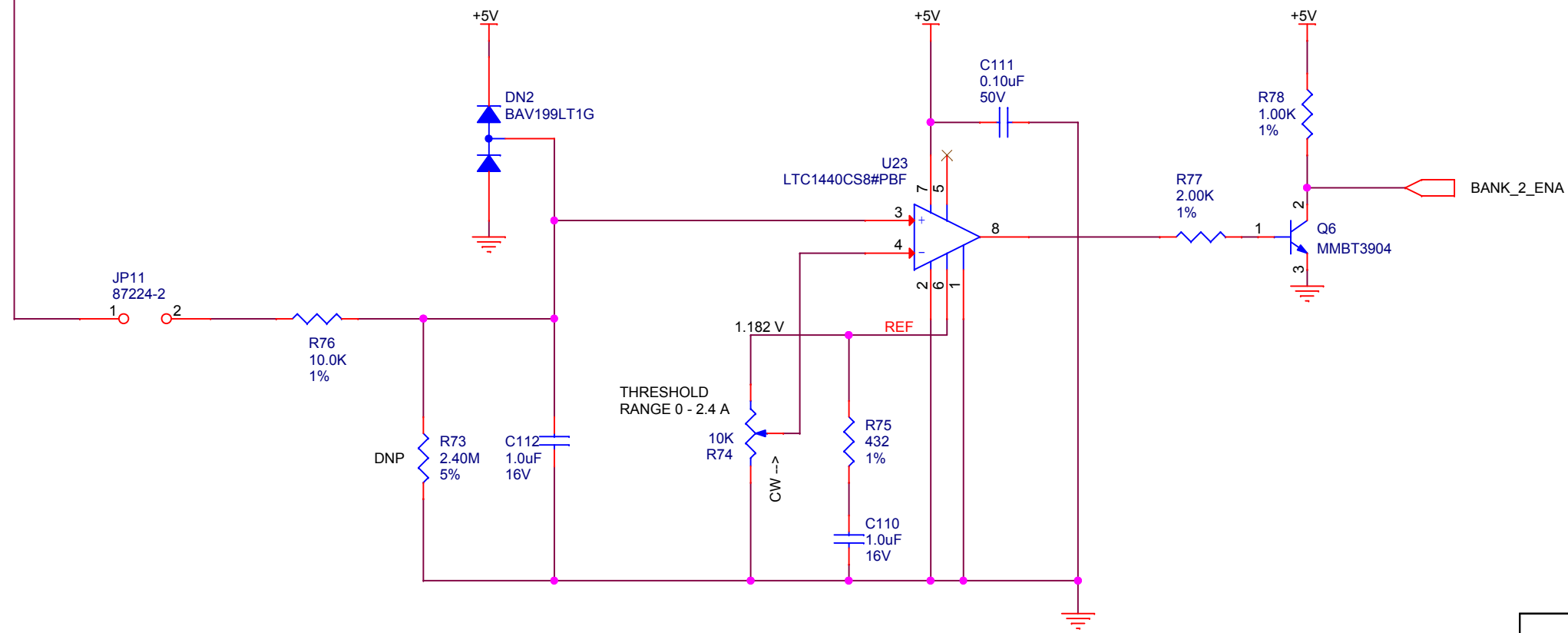
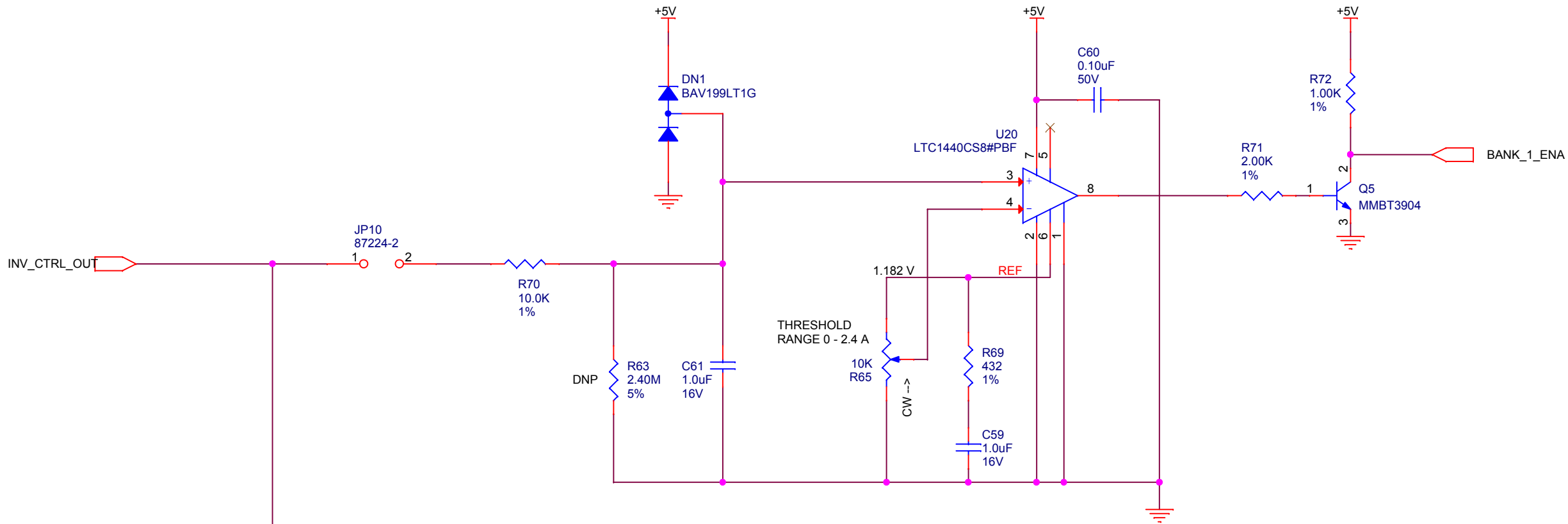
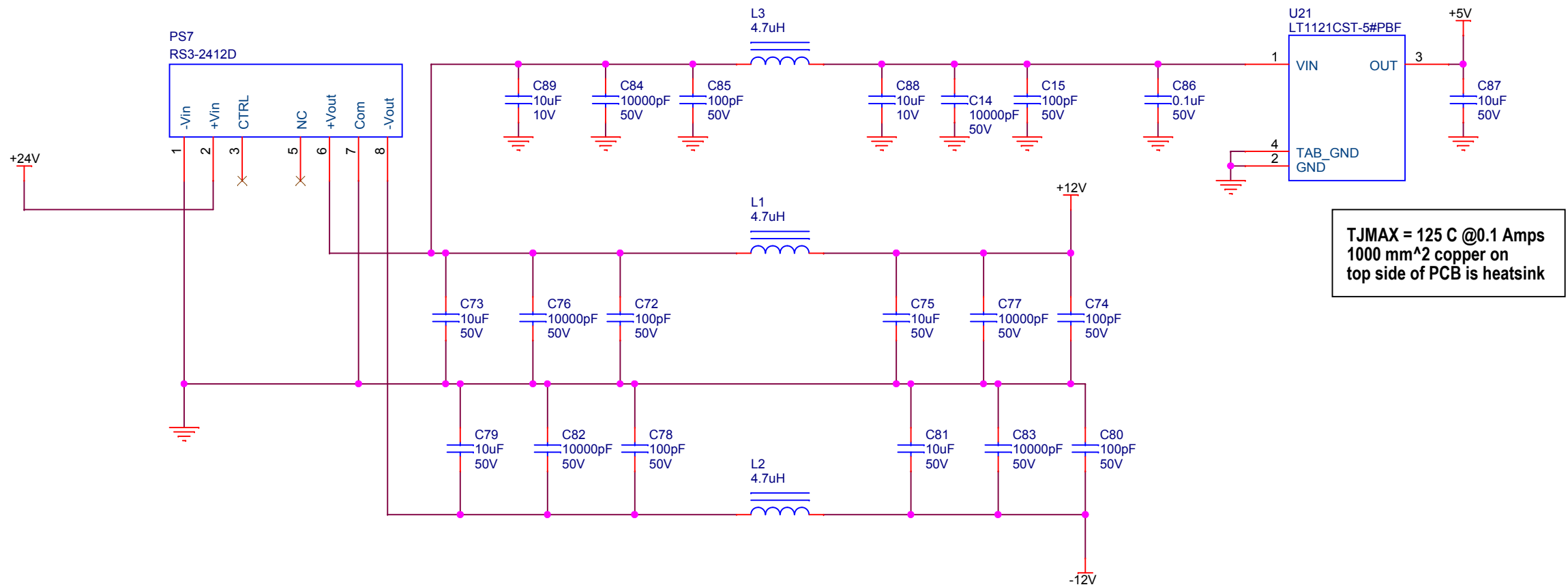


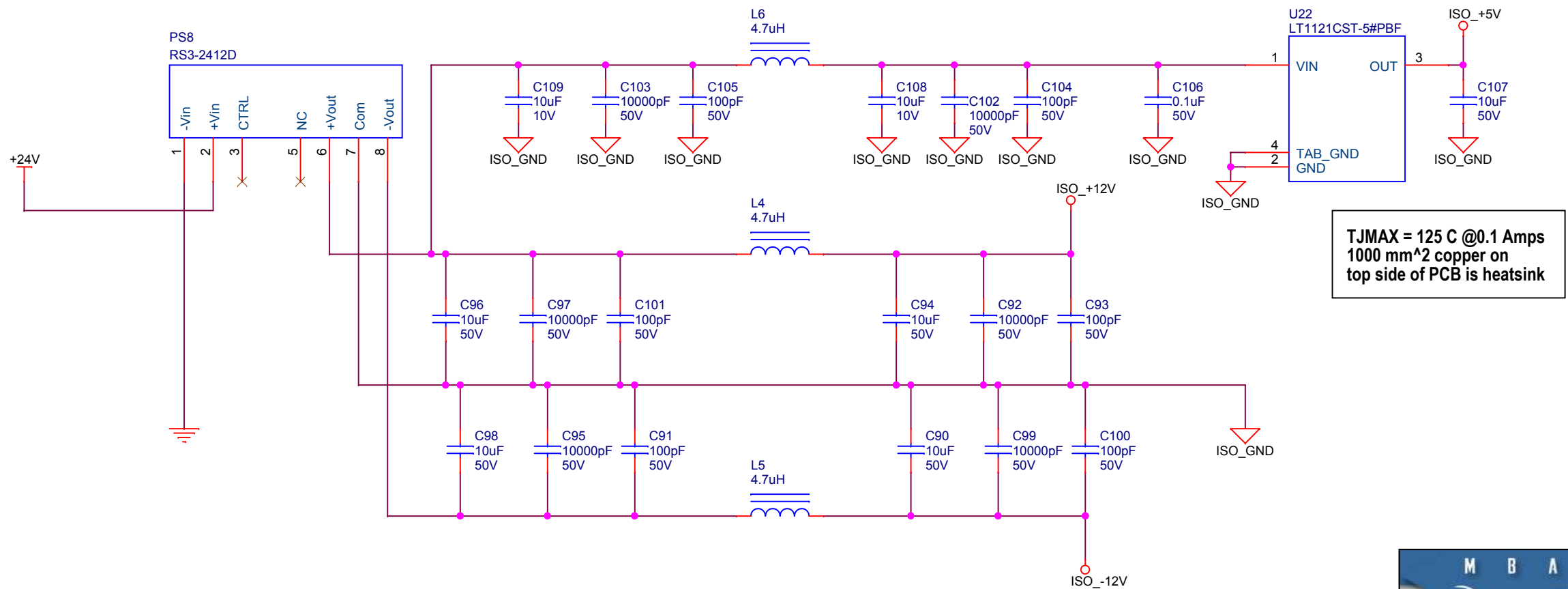




Title		
Power Buoy: COTS SMPS: Bank Enables		
Size B	Document Number <Doc>	Rev 1.0.0
Date:	Wednesday, February 15, 2012	Sheet 1 of 1



TJMAX = 125 C @0.1 Amps
1000 mm^2 copper on
top side of PCB is heatsink

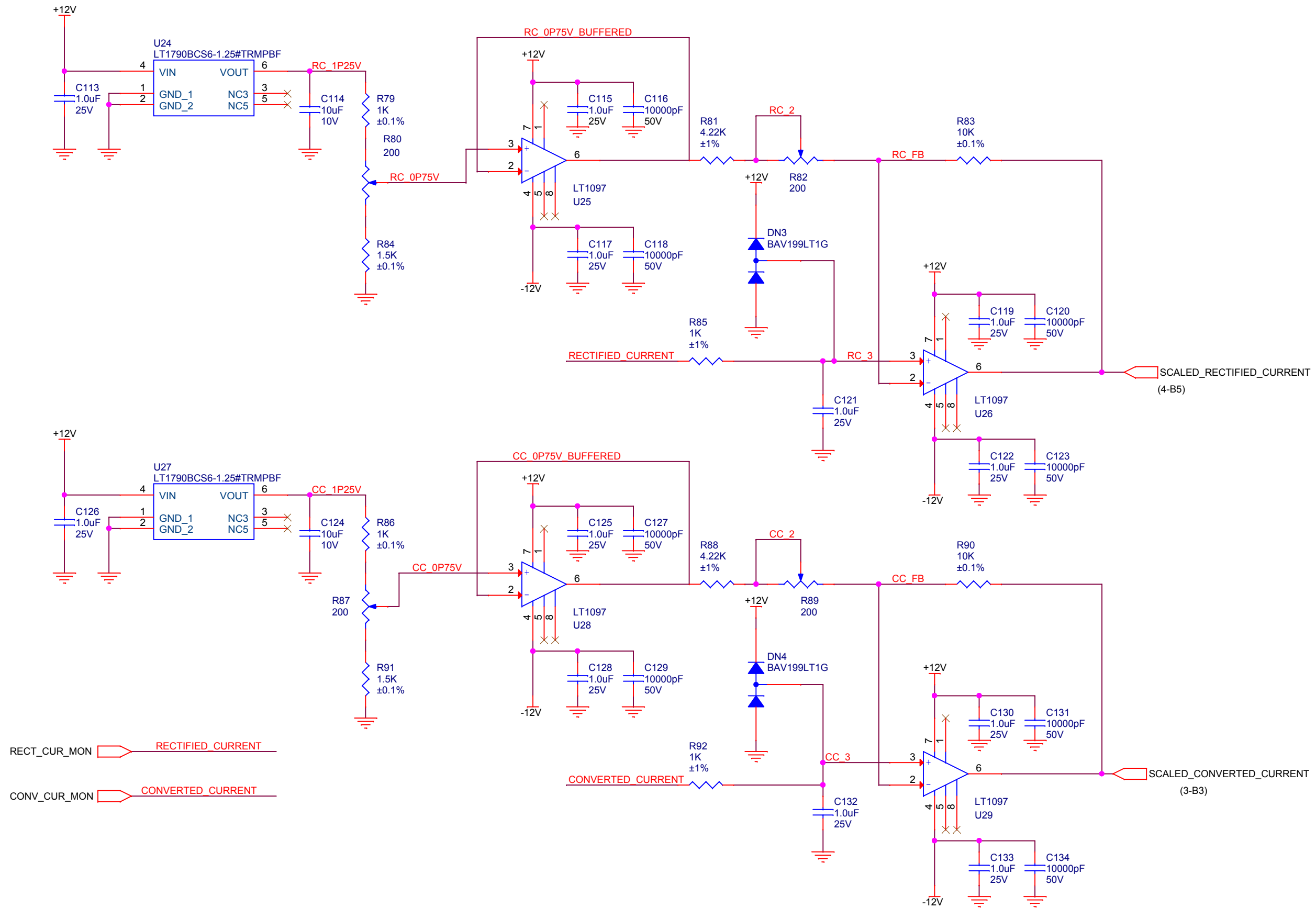


TJMAX = 125 C @0.1 Amps
1000 mm^2 copper on
top side of PCB is heatsink



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Title			
Power Buoy: COTS SMPS: Aux Power Supplies			
Engineer Radochonski/McGill	Size B	Document Number <Doc>	Rev 1.1.0
Layout	Date:	Wednesday, February 15, 2012	Sheet 1 of 1
<Layout>			

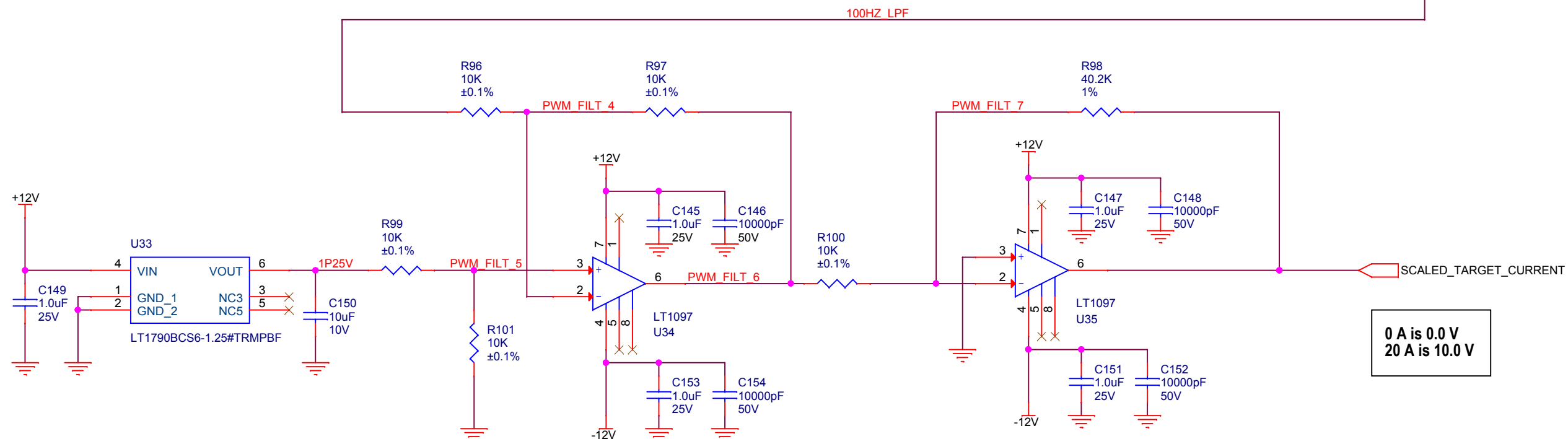
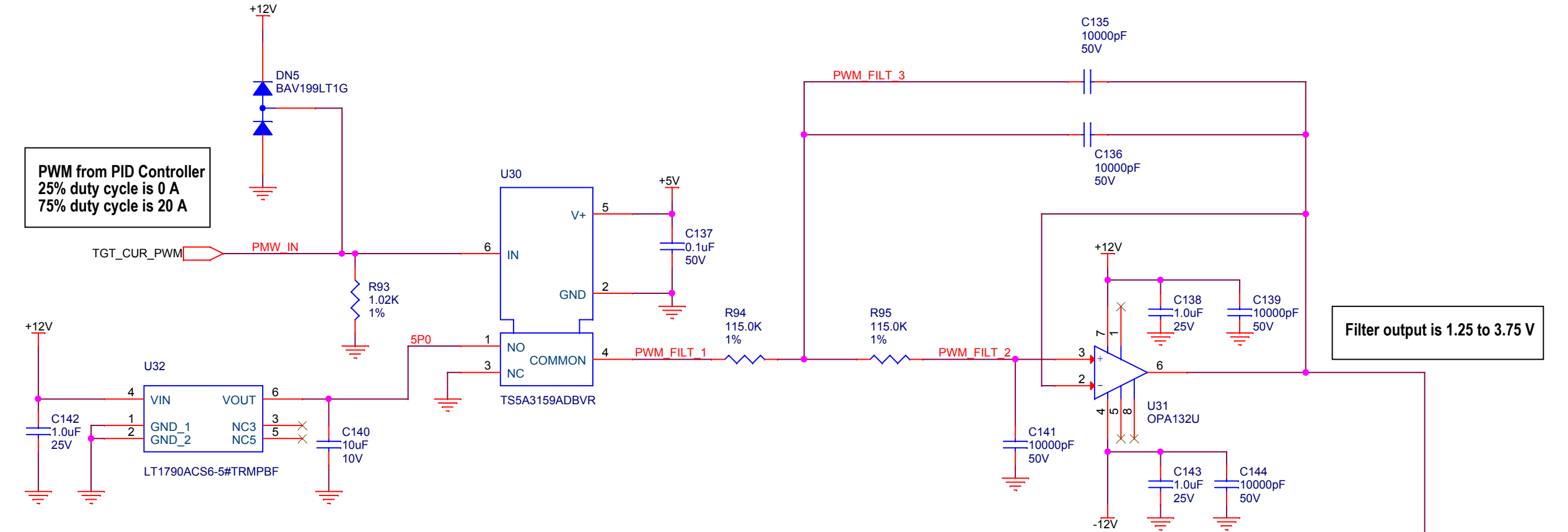


RECT_CUR_MON RECTIFIED CURRENT

CONV_CUR_MON CONVERTED CURRENT

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Title			
CURRENT SENSOR OFFSET AND GAIN			
Engineer	Size	Document Number	Layout File
<Engineer>	B	<Doc>	<Layout File>
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<Layout>			Rev <Rev>

PWM from PID Controller
25% duty cycle is 0 A
75% duty cycle is 20 A



Subtract off 1.25 V offset
Output is 0.0 to -2.5 V

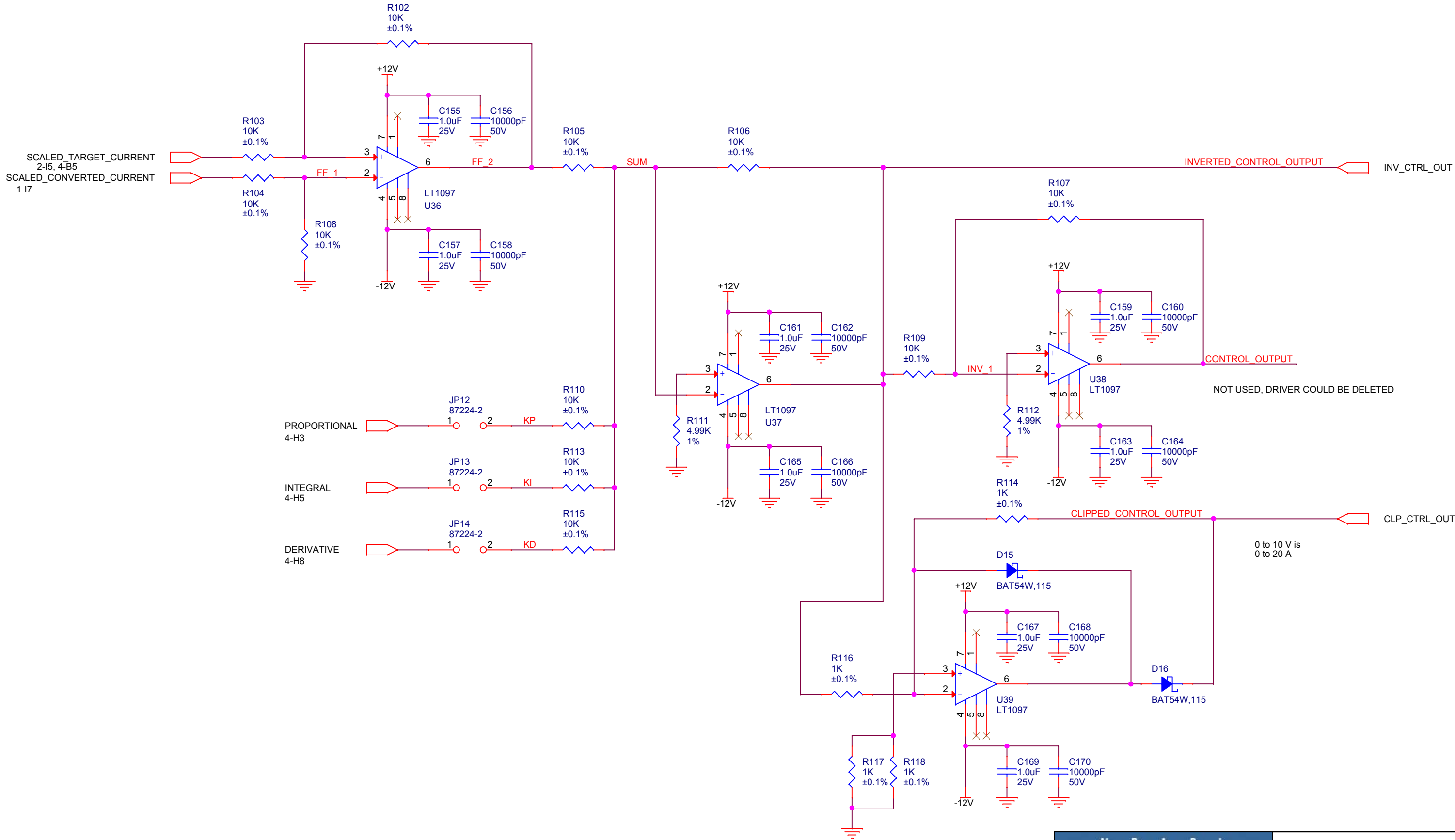
Gain of -4
Output is 0 to 10 V

0 A is 0.0 V
20 A is 10.0 V



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Engineer Radochonski		Size B	Document Number <Doc>	Title Power Buoy: COTS SMPS: PWM Generator		Rev 1.2.0
Layout		Date:	Wednesday, February 15, 2012	Sheet	2 of 9	



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Title			
Power Buoy: COTS SMPS: Feedforward Controller			
Engineer Radochonski	Size B	Document Number <Doc>	Rev 1.1.0
Layout <Layout>	Date: Wednesday, February 15, 2012	Sheet 3	of 9

