

Setting the output voltage:

RX/R
3.3V: 3.30K & 100K
5V: 1.91K
6.5V: 1.50K & 22.0K
12V: 732 & 30.0K
15V: 562
16.5V: 510
24V: 374 & 4.32K

$RX/Y = 8000 / (V_{out} - 0.8)$

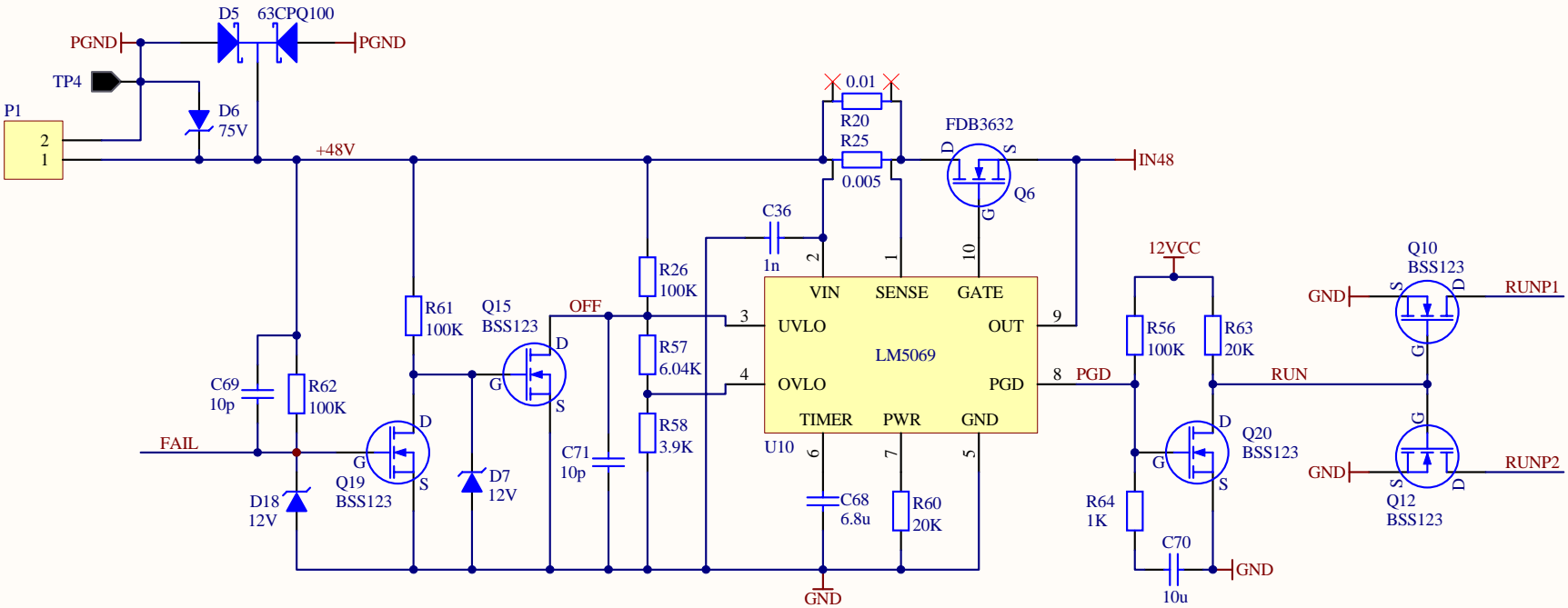
RX1/RX2 are 0.1% 805
RX2/RX2 are 1.0% 805

Output capacitor values and voltage ratings
ceramic electrolyte
7V: 100u / 16V 10m / 16V
12V: 47u / 25V 5.6m / 25V
17V: 47u / 25V 3.9m / 35V
24V: 22u / 50V 2.7m / 50V

Output filter: 50dB suppression at 260kHz

Title Synchronous Buck Regulator: PP		
Size B	Number D060512	Revision A
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File: C:\User\...\PowerSupplyPP1.SchDoc	Drawn By: Paul Schwinberg/Daniel Sigg	

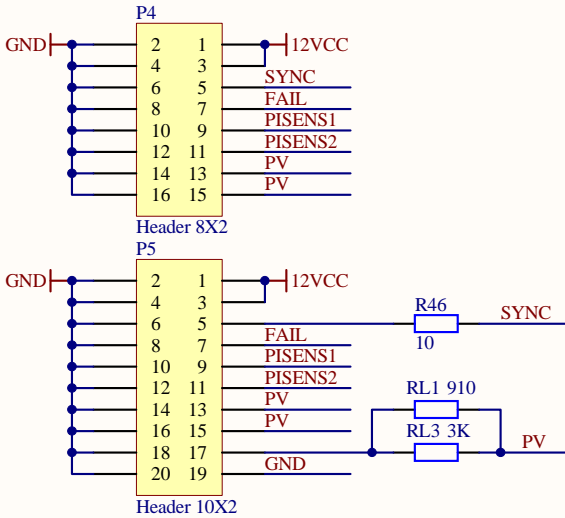
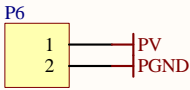
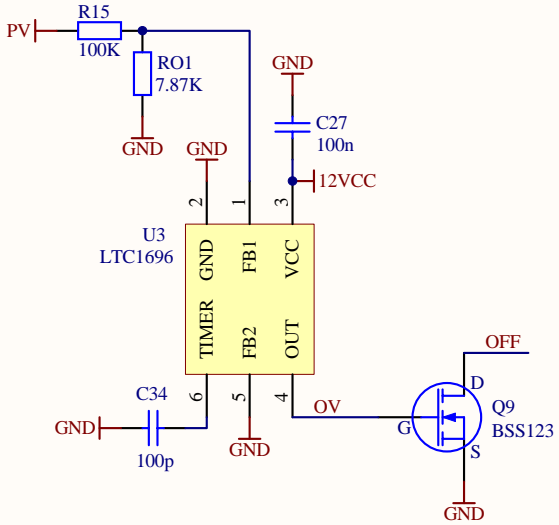
48V DC nominal
20A or smaller fuse required



Over-voltage monitor:

	RO1
3.3V:	31.6K
5V:	18.7K
6.5V:	13.7K
12V:	7.15K
15V:	5.62K
16.5V:	4.99K
24V:	3.32K

$RO1 = 88K / (V - 0.88)$
with $V = 1.1$ Vout
RO are 0.5% 805



Setting the LED current:

	RL1
3.3V:	124
5V:	255
6.5V:	374
12V:	910
15V:	1.30K
16.5V:	1.50K
24V:	3.00K

$RL1 = RL3 \cdot V / (I_{LED} \cdot RL3 - V)$
with $V = V_{out} - V_{LED}$
RL are 1% 1206

Title Synchronous Buck Regulator: PP		
Size B	Number D060512	Revision A
Date:	5/7/2007	Sheet2 of 2
File:	C:\User\...\PowerSupplyPP2.SchDoc	Drawn By: Paul Schwinberg/Daniel Sigg