

Setting the output voltage:

RX/R1
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

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

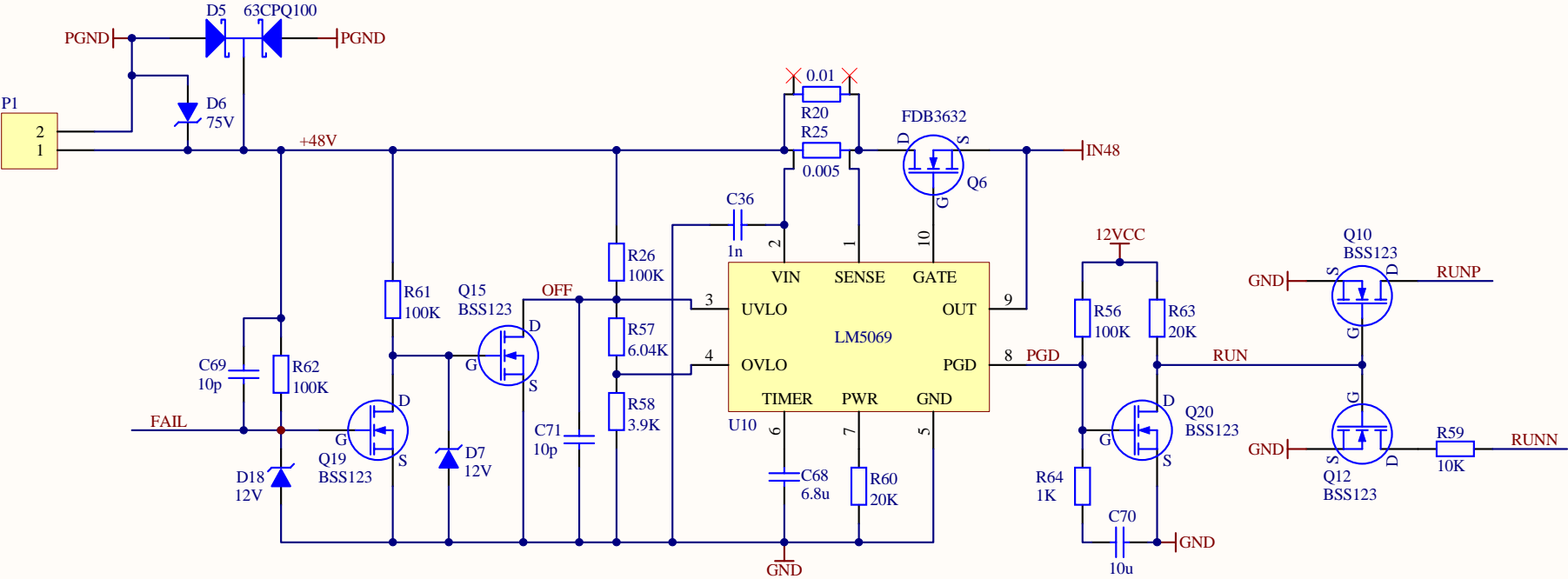
RX1/R1 are 0.1% 805
RX2/R2 are 1.0% 805

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

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|--|---------------------------------------|---------------|
| Title Synchronous Buck Regulator: PM | | |
| Size B | Number D060431 | Revision D |
| Date: 4/30/2007 | Sheet 1 of 2 | |
| File: C:\User\...\PowerSupplyPM1.SchDoc | Drawn By: Paul Schwinberg/Daniel Sigg | |

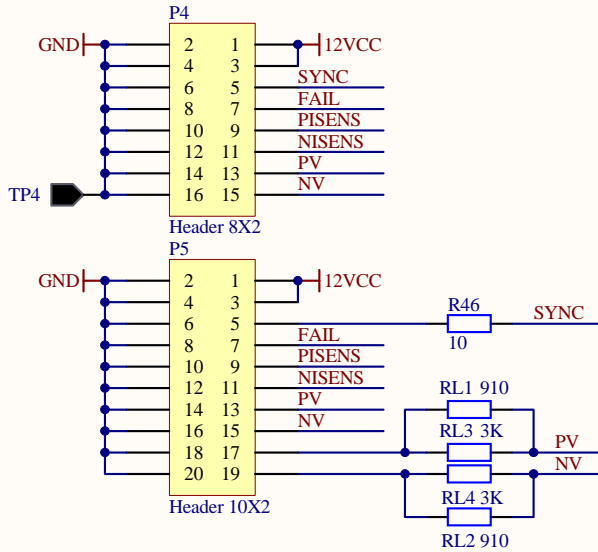
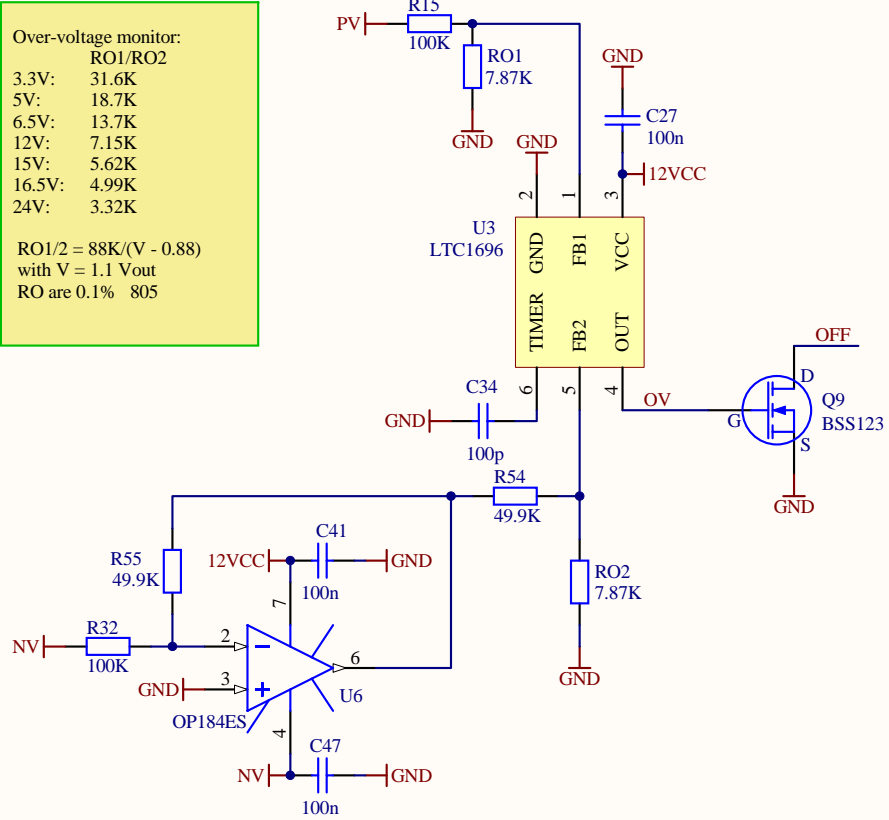
48V DC nominal
20A or smaller fuse required



Over-voltage monitor:
RO1/RO2

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

$RO1/2 = 88K/(V - 0.88)$
with $V = 1.1$ Vout
RO are 0.1% 805



Setting the LED current:
RL1/RL2

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

$RL1/2 = RL3/4 \text{ V} / (I_{LED} \text{ RL3/4} - V)$
with $V = V_{out} - V_{LED}$
RL are 1% 1206

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|---|-----------------------------------|---------------------------------------|
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