



current regulation

- \* TPS63030: FB = 500mV, INA193: gain = 20
- \* SHUNT = (500mV/20) / (3x Iout)
- 27mOhm: 3x 309mA
- 33mOhm: 3x 253mA
- 40mOhm: 3x 208mA
- 56mOhm: 3x 149mA
- 82mOhm: 3x 102mA

notes

- \* power safe mode is enabled (pin 7 = low)
- \* ENABLE (pin 6) < 0.4V: OFF  
> 1.2V: ON
- \* undervoltage lockout VINA (pin 8)  
shutdown @ 1.5V nom. (1.4V min. / 1.6V max.)
- \* LEDIL Titanium-3 / Platinum-3 lenses fit for PCB
- \* TPS63000 and TPS63010 (different packages) will also work in this configuration (higher currents possible)
- \* Rev. E: added D2/R8 to ensure proper start up of U1

TPS63030 buck-boost converter

- \* 1.8 ... 5.5V
- \* max. 200mA (Vout = 3.3V) @ 1.8V input voltage
- \* max. 750mA (Vout = 3.3V) @ 3.6V input voltage
- \* max. 950mA (Vout = 3.3V) @ 5.5V input voltage



Title LED torch, 3 cells		
Size B	Number PMP4640	Rev E
Date 9/10/09	Drawn by M Ulmann	
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