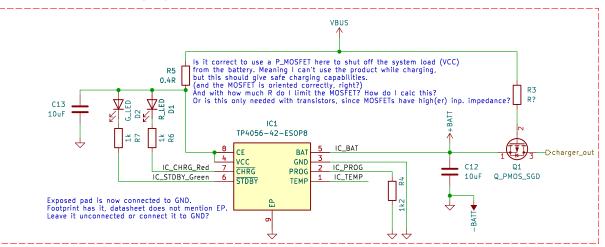
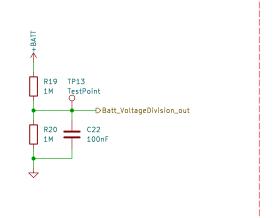


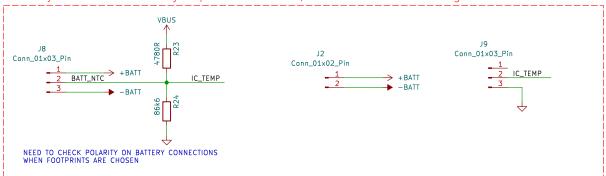
TP4056 Li-Po Charging Circuit



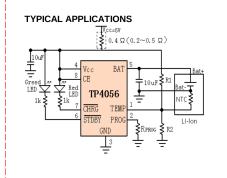
ADC Voltage readout



Battery Connections & jumper to disable/enable TEMP sensing of batt.



TP4056 Typical application schematic & global notes



Rprog Current Setting

RPROG	I_{BAT}	
(k)	(mA)	
10	130	
5	250	
4	300	
3	400	
2	580	
1.66	690	
1.5	780	
1.33	900	
1.2	1000	

R4 is 1k2, because that is the max value the datashest shows (or should I be able to extrapolate the R values to get a higher charge current?)
The batteries I want to use (and have at home), are 1500mAh. But charging 1500mAh with 0.66C should also be fine I guess?

R1 and R2 calculations are in attached PDF file.

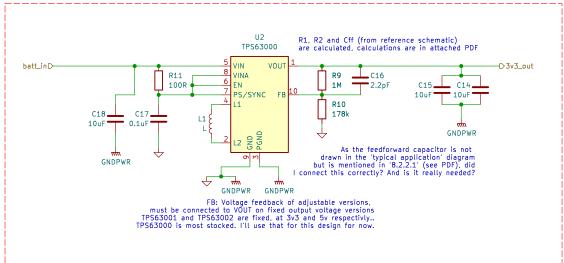
Make sure to add to silkscreen to never connect a battery to both connectors at the same time. Jumper is only used to pull TEMP pin to GND. So adding two batteries would result in them unloading into each other

Sheet: /Li-Po Battery and charger/ File: LipoBattAndCharger.kicad_sch

Title: Shotclock Mainboard

Size: A4	Date: 2023-06-28	Rev: 1
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TPS63000 Variable Output Voltage Regulator



TPS63000 Typical application schematic & global notes

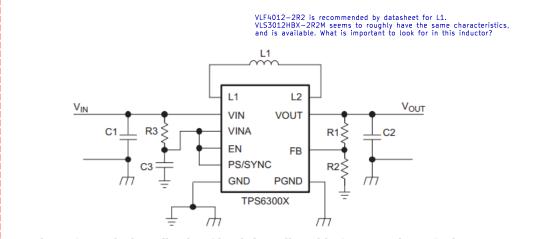


Figure 2. Typical Application Circuit for Adjustable Output Voltage Option

Sheet: /Voltage regulator 3v3/ File: Regulator3V3.kicad_sch

Title: Shotclock Mainboard

Date: 2023-06-28 Rev: 1 KiCad E.D.A. eeschema 7.0.5-4d25ed1034~172~ubuntu22.04.1 ld: 4/6

