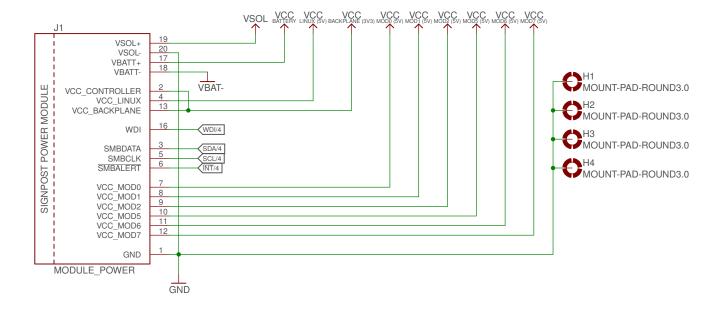
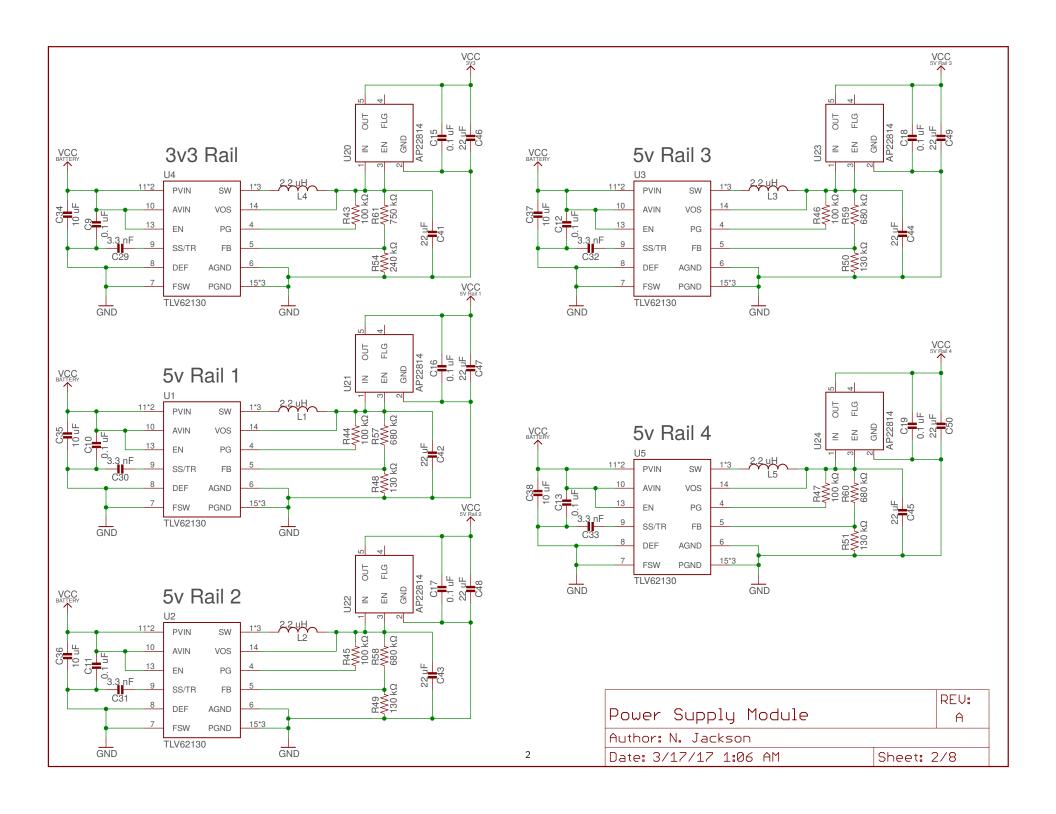
Power Module Header

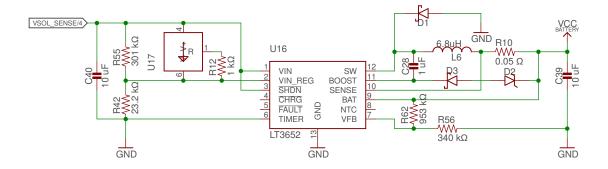


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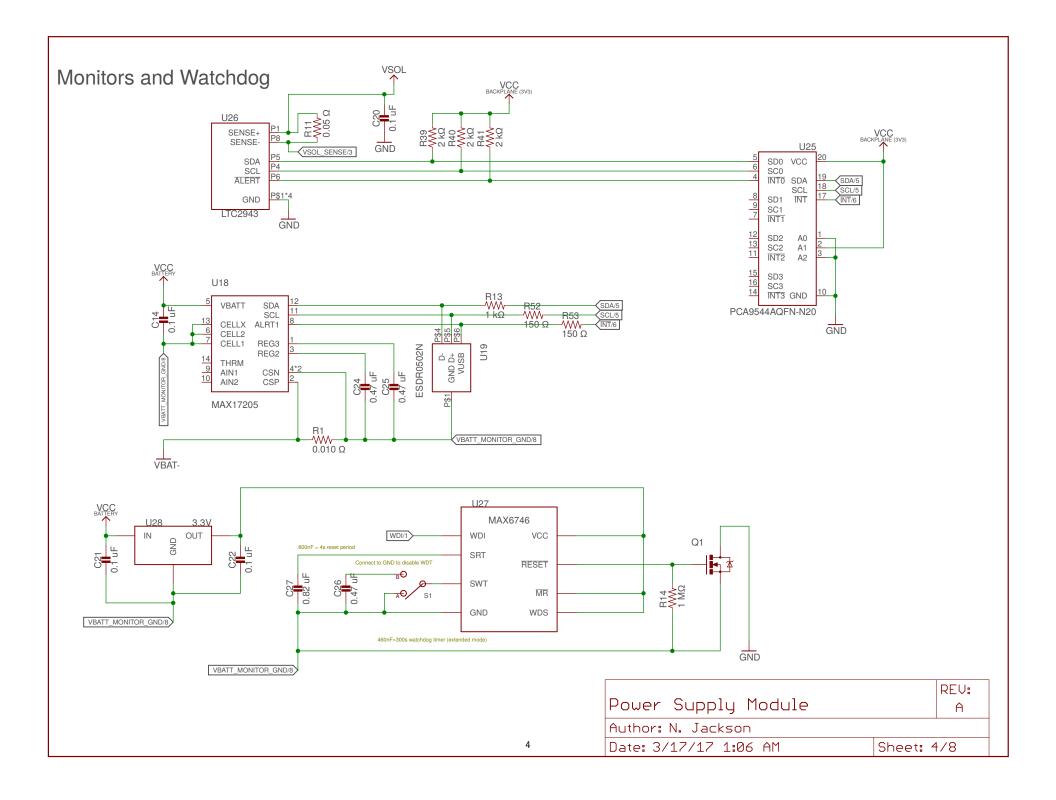
Power Supply Module	REU: A			
Author: N. Jackson				
Date: 3/17/17 1:06 AM	Sheet: 1/8			



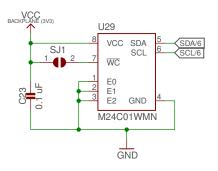
Solar Charger



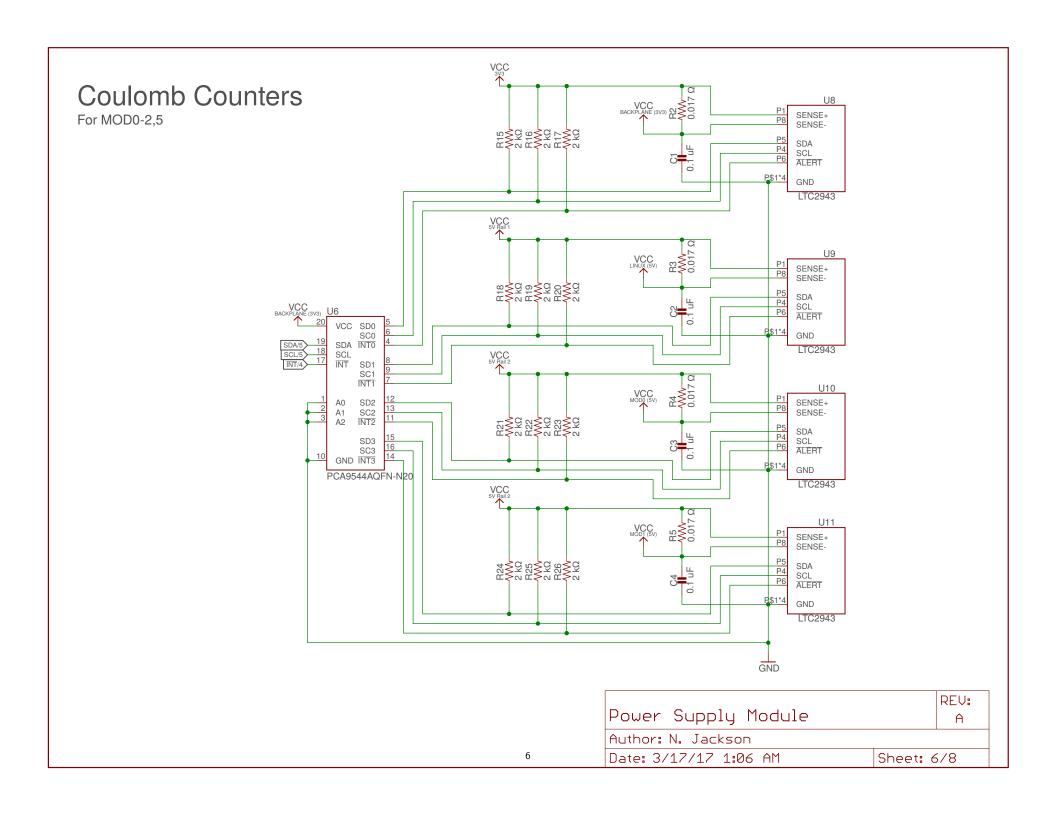
Power Supply Module	REV:
Author: N. Jackson	-
Date: 3/17/17 1:06 AM	Sheet: 3/8

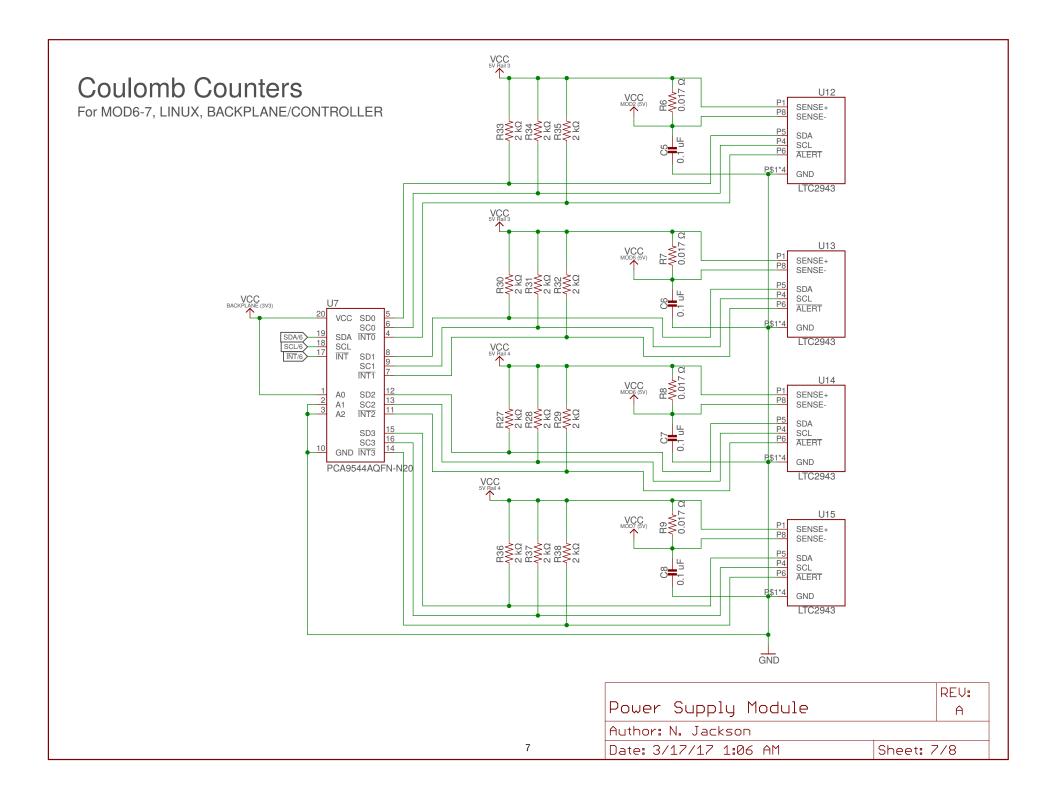


EEPROM ID

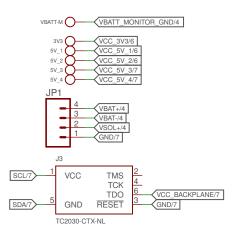


Power Supply Module	REV: A			
Author: N. Jackson				
Date: 3/17/17 1:06 AM Sheet: 5	 5/8			

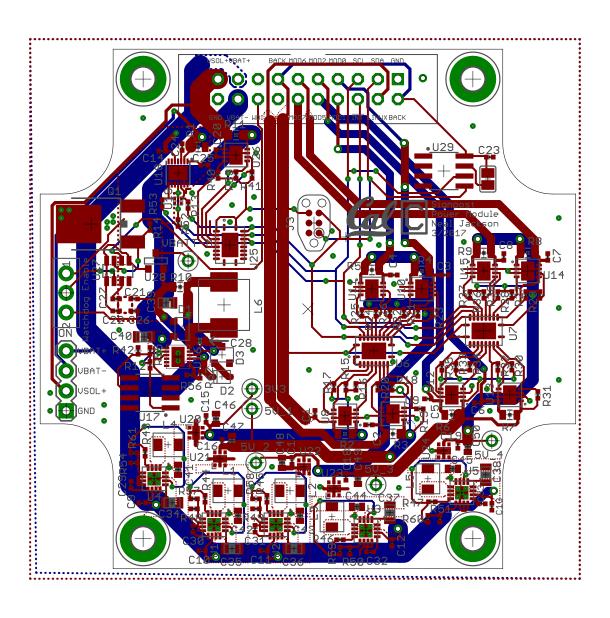


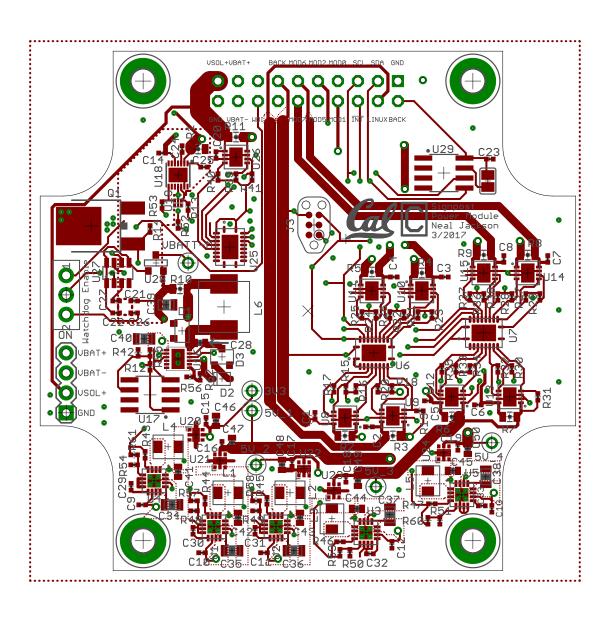


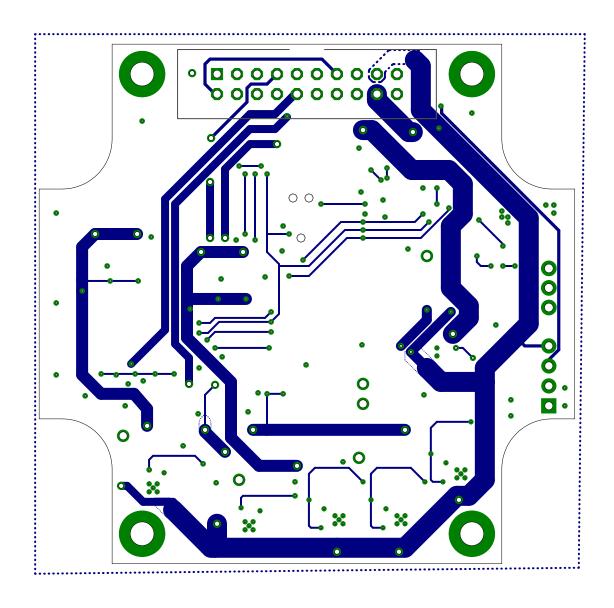
Debugging

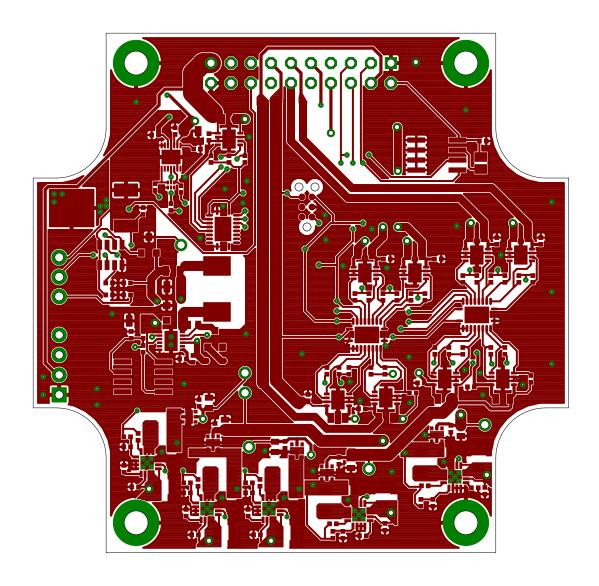


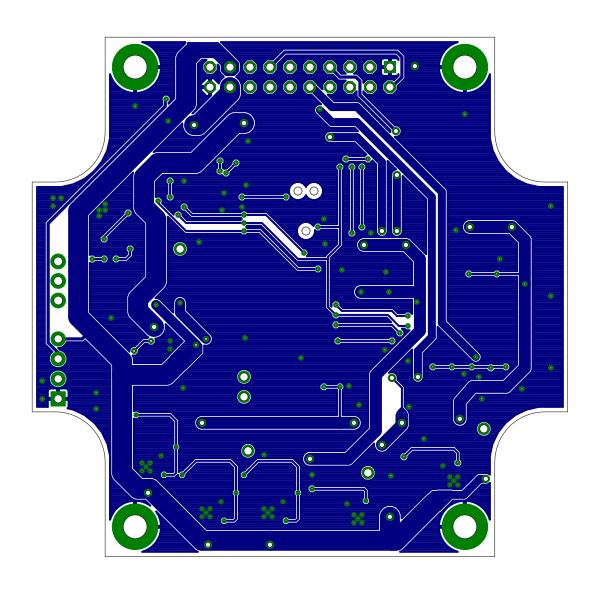
Power Supply Module	REV: A			
Author: N. Jackson				
Date: 3/17/17 1:06 AM Sheet: 8	3/8			

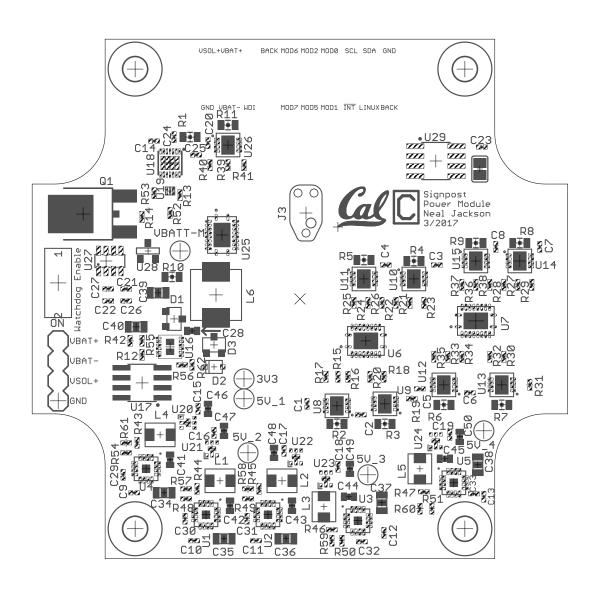


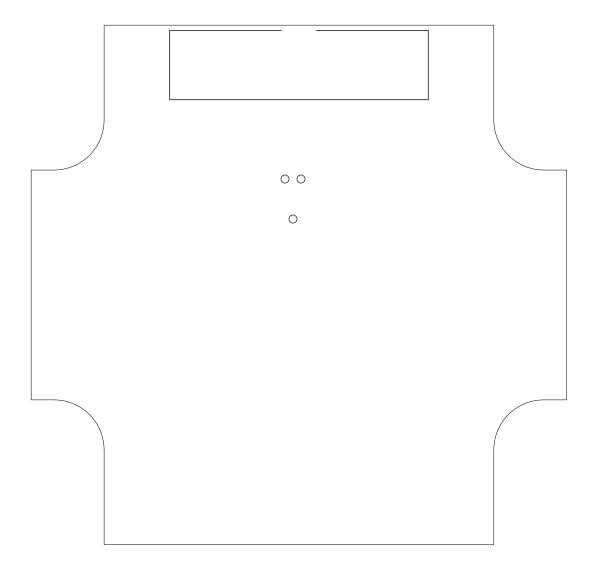


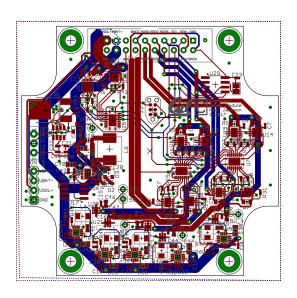


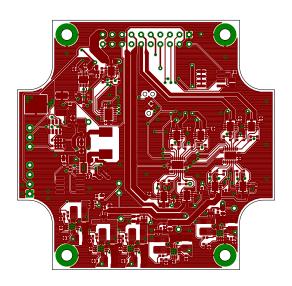


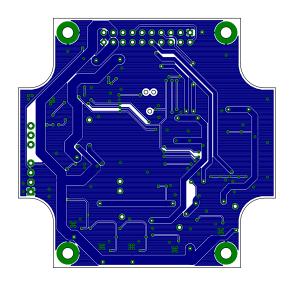












power_supply_module

	F FF - J	
Qty Value	Device	Package
1	DIODE_ZENERSOT323	SOD323
1 0.010 ??	RESISTOR0805_RES	0805_RES
8 0.017 ??	RESISTOR0805_RES	0805_RES
2 0.05 ??	RESISTOR0805_RES	0805_RES
23 0.1 uF	CAPACITOR0402_CAP	0402_CAP
3 0.47 uF	CAPACITOR0402_CAP	0402_CAP
1 0.82 uF	CAPACITOR0402_CAP	0402_CAP
11 M??	RESISTOR0402_RES	0402_RES
21 k??	RESISTOR0402_RES	0402_RES
11 uF	CAPACITOR0603_CAP	0603_CAP
7 10 uF	CAPACITOR0805_CAP	0805_CAP
5 100 k??	RESISTOR0402_RES	0402_RES
4 130 k??	RESISTOR0402_RES	0402_RES
2 150 ??	RESISTOR0402_RES	0402_RES
27 2 k??	RESISTOR0402_RES	0402_RES
5 2.2 uH	INDUCTORIHL	IHL-1212BZ-11
10 22 uF	CAPACITOR0603_CAP	0603_CAP
1 23.2 k??	RESISTOR0402_RES	0402_RES
1 240 k??	RESISTOR0402_RES	0402_RES
5 3.3 nF	CAPACITOR0402_CAP	0402_CAP
13.3V	TILM34803.3V	SOT-23
1 301 k??	RESISTOR0402_RES	0402_RES
1 340 k??	RESISTOR0402_RES	0402_RES
1 6.8uH	INDUCTORIHL2525CZ	IHL-2525CZ
4 680 k??	RESISTOR0402_RES	0402_RES
1 750 k??	RESISTOR0402_RES	0402_RES
1 953 k??	RESISTOR0402_RES	0402_RES
5 AP22814	AP22814	U-DFN2020-6
1 DIODE_SCHOTTKYSOT-23F	DIODE_SCHOTTKYSOT-23F	SOT-23F
1 DIODE_SCHOTTKYSOT-23F	DIODE_SCHOTTKYSOT-23F	SOT-23F
1 ESDR0502N	ESDR0502N	UDFN-6
1 LM234	LM234	SOIC-8
1 LT3652	LT3652	DFN-12/3MM
9 LTC2943	LTC2943	DFN-8
1 M24C01WMN	M24C01WMN	SOIC-8
1 MAX17205	MAX17205	14-TDFN
1 MAX6746	MAX6746	SOT-23-8
1 MODULE POWER	MODULE POWER	MODULE POWI
1 MOSFET-NCHANNELFDD8580	MOSFET-NCHANNELFDD8580	DPAK
3 PCA9544AQFN-N20	PCA9544AQFN-N20	QFN-N20
1 TE_SSA12/SPDT	TE_SSA12/SPDT	TE_SSA12/SPD
5 TLV62130	TLV62130	TQFN-16/3MM
		-

power_supply_module

```
Parts
D2
R1
R2, R3, R4, R5, R6, R7, R8, R9
R10, R11
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23
C24, C25, C26
C27
R14
R12, R13
C28
C34, C35, C36, C37, C38, C39, C40
R43, R44, R45, R46, R47
R48, R49, R50, R51
R52, R53
R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, F
L1, L2, L3, L4, L5
C41, C42, C43, C44, C45, C46, C47, C48, C49, C50
R42
R54
C29, C30, C31, C32, C33
U28
R55
R56
L6
R57, R58, R59, R60
R61
R62
U20, U21, U22, U23, U24
D1
U19
U17
U8, U9, U10, U11, U12, U13, U14, U15, U26
U29
U18
U27
J1
Q1
```

U6, U7, U25

U1, U2, U3, U4, U5

S1

power_supply_module

Description **DIGIKEY** 1727-5151-1-ND Resistor WSLPB-.01CT-ND Resistor WSLPB-.017CT-ND Resistor WSLPB-.05CT-ND 0402 Capacitor 490-5920-1-ND 0402 Capacitor 490-3266-1-ND 0402 Capacitor 490-10440-1-ND Resistor P1.00MLCT-ND Resistor P1.0KJCT-ND 0402 Capacitor 490-3890-1-ND 490-5523-1-ND 0402 Capacitor P100KJCT-ND Resistor P130KLCT-ND Resistor Resistor P150LCT-ND Resistor P2.00KLCT-ND A very specific inductor 541-1322-1-ND 0402 Capacitor 1276-1193-1-ND Resistor 311-2257-1-ND Resistor P240JCT-ND 0402 Capacitor 490-3248-1-ND Very simple LDO 100ma 3v3 LM3480IM3-3.3/NOPBCT-ND Resistor P301KLCT-ND Resistor P340KLCT-ND A very specific inductor 541-2582-1-ND Resistor P680KLCT-ND Resistor P750KJCT-ND Resistor P953KLCT-ND SINGLE CHANNEL POWER DISTRIBUTION LOAD SWITCH AP22814ASN-7DICT-ND CMDSH2-4L CT-ND CMPSH1-4 CT-ND ESDR0502NMUTBGOSCT-ND 497-1549-1-ND 3-terminal temperature sensor Solar power tracking 2A battery charger LT3652EDD#PBF-ND Multicell Battery Gas Gauge LTC2943IDD#PBF-ND 1K I2C?"? Serial EEPROM 497-8631-1-ND Stand-Alone ModelGauge m5 Fuel Gauge A simple watchdog timer with adjustable timeouts and reset time MAX6746KA26+TCT-ND Header for power module for signpost S9172-ND Generic NMOS footprint NTD4965NT4GOSCT-ND 1-4 I2C/SMBUS Multiplexer with interrupt for power supply coulomb counters 296-20960-1-ND

450-1602-ND

296-35978-1-ND

SWITCH SLIDE SPDT 2POS SSA SER

High Efficient 3A switching step-down regulator. 1V-5V out, 4V-17V in.

MOUSER

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700-MAX17205G+00E