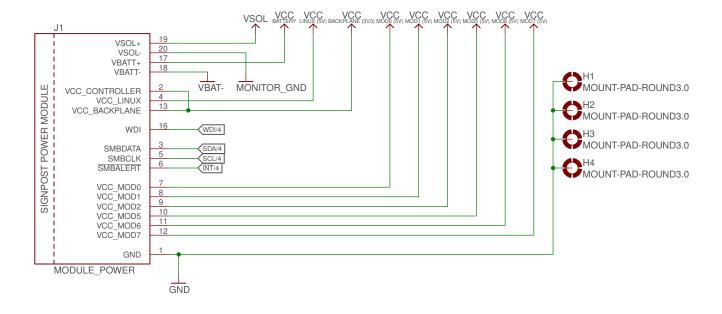
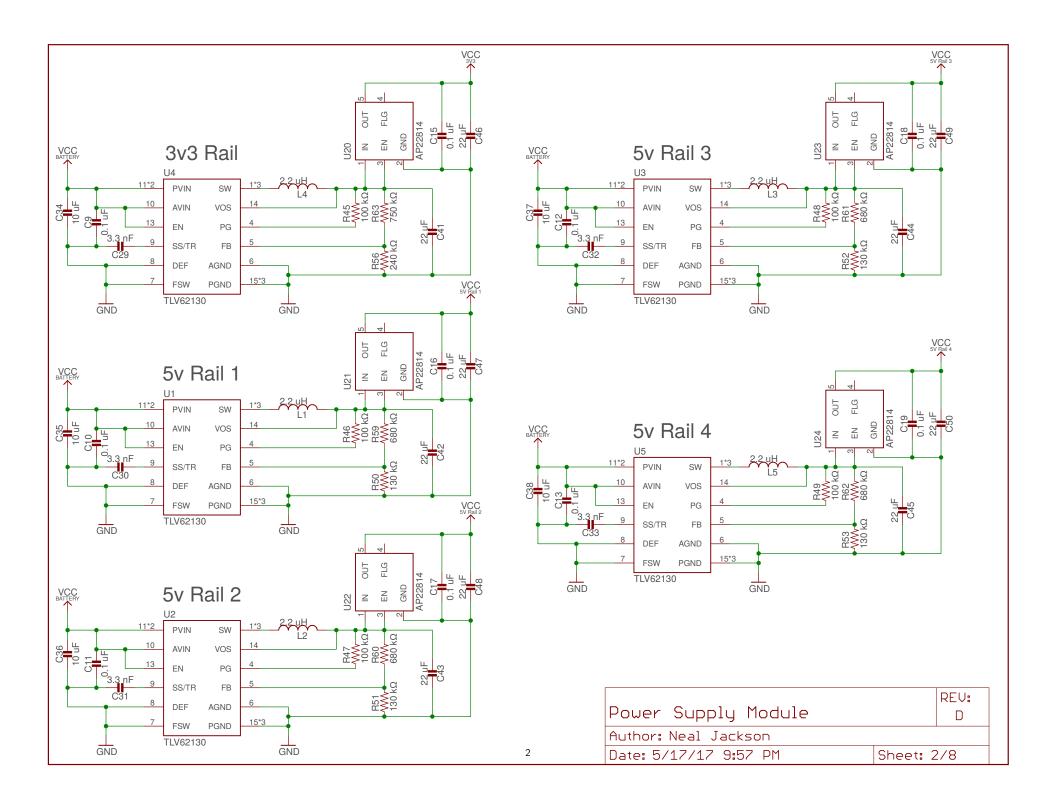
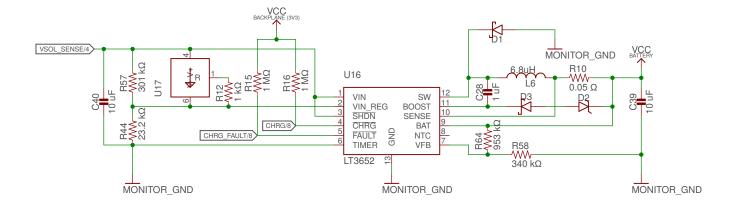
Power Module Header



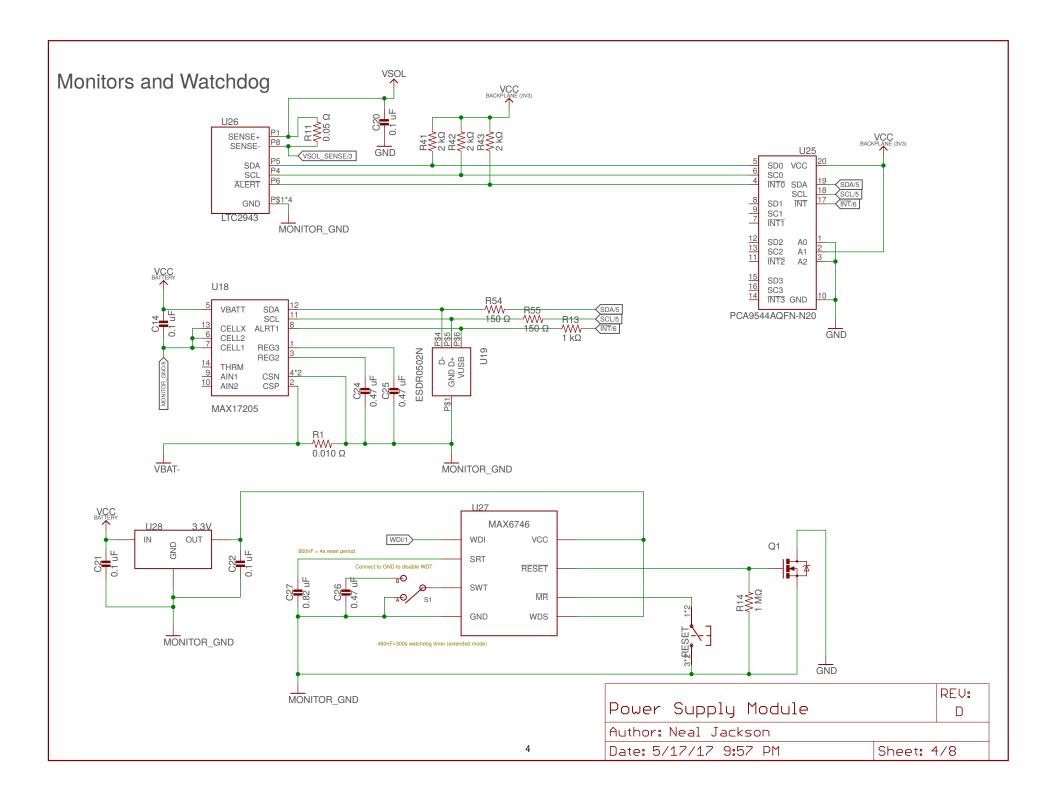
Power Supply Module	REV:			
Author: Neal Jackson				
Date: 5/17/17 9:57 PM	Sheet: 1/8			



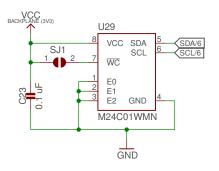
Solar Charger



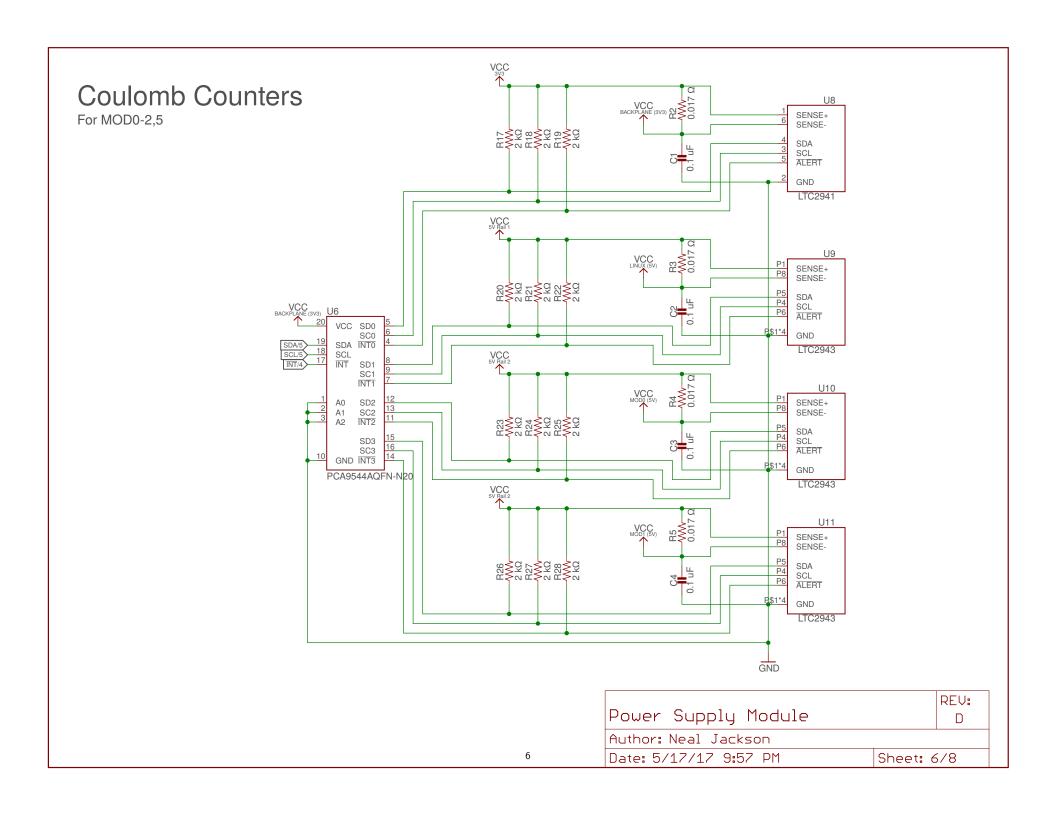
Power Supply Module	REV:				
Author: Neal Jackson					
Date: 5/17/17 9:57 PM Shee	t: 3/8				

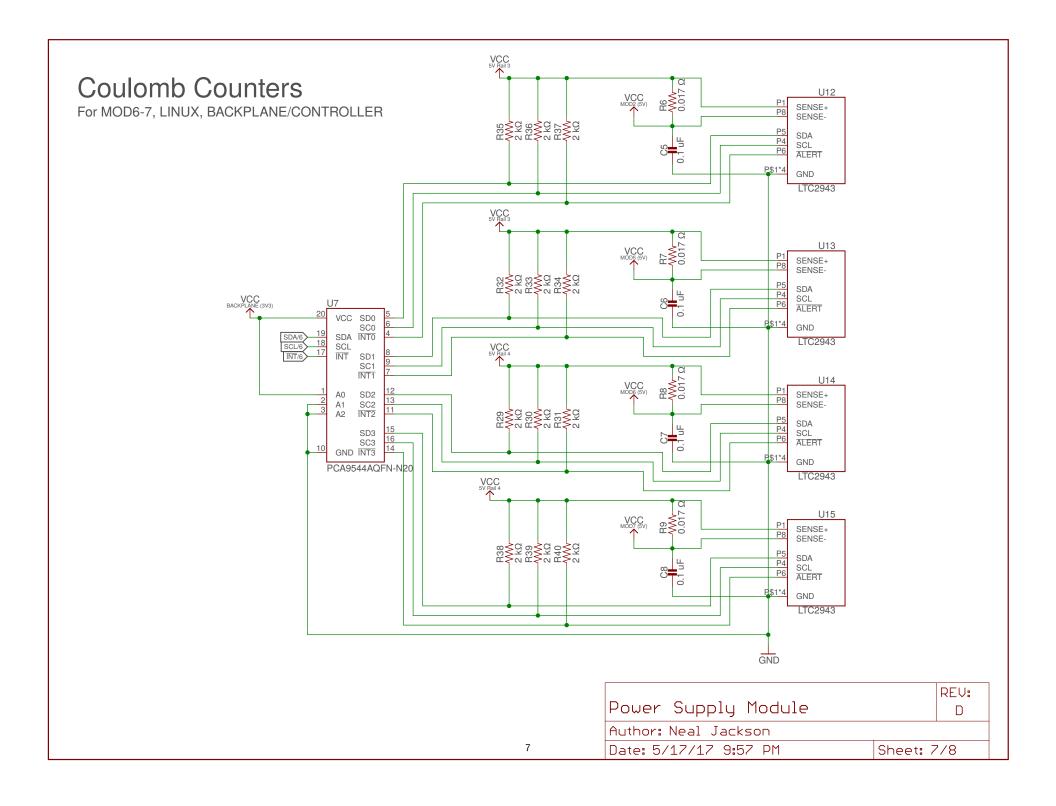


EEPROM ID

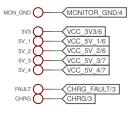


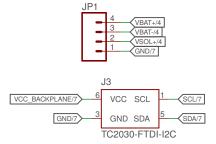
Power Supply Module	REV:				
Lower 2abbid Logare					
Author: Neal Jackson					
Date: 5/17/17 9:57 DM Sheet: 5	1/8				



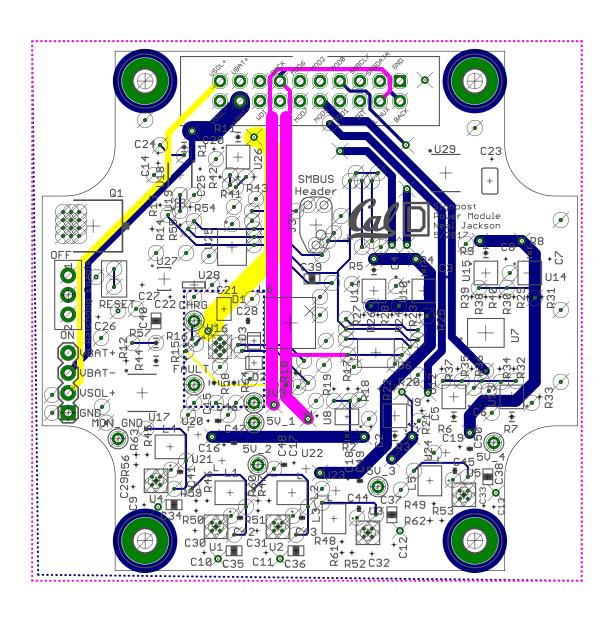


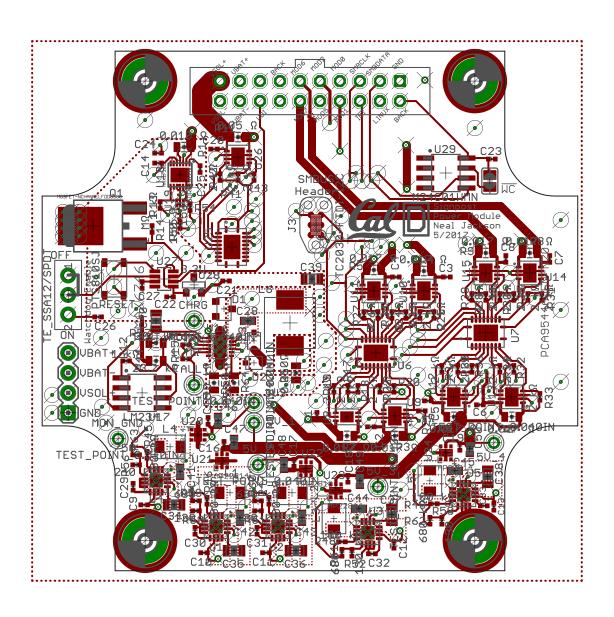
Debugging

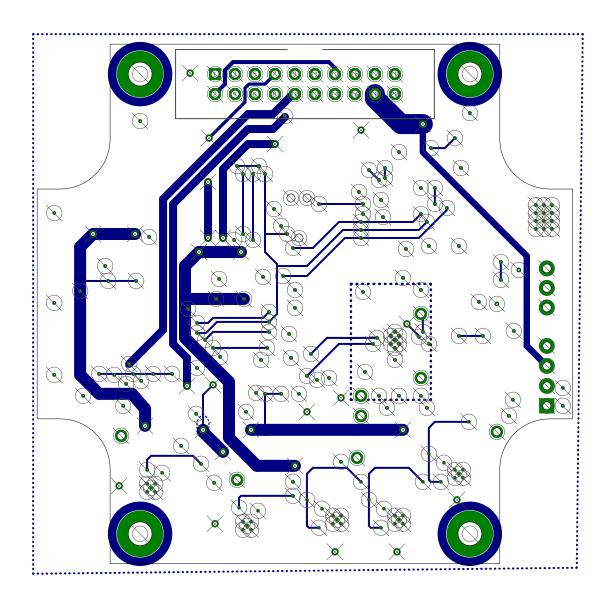


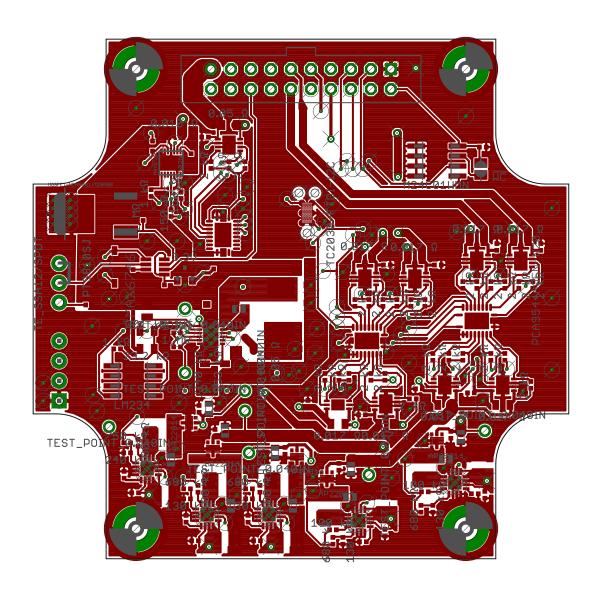


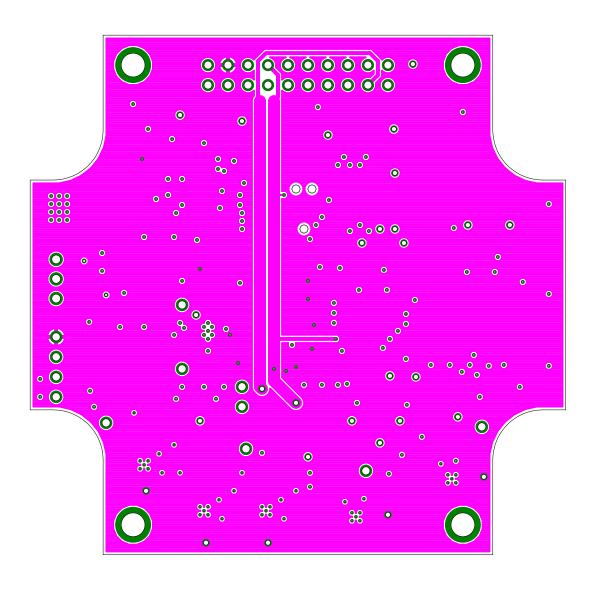
		REV:
Power Supply Module		D
Author: Neal Jackson		
Date: 5/17/17 9:57 DM	Sheet: 8	2/8

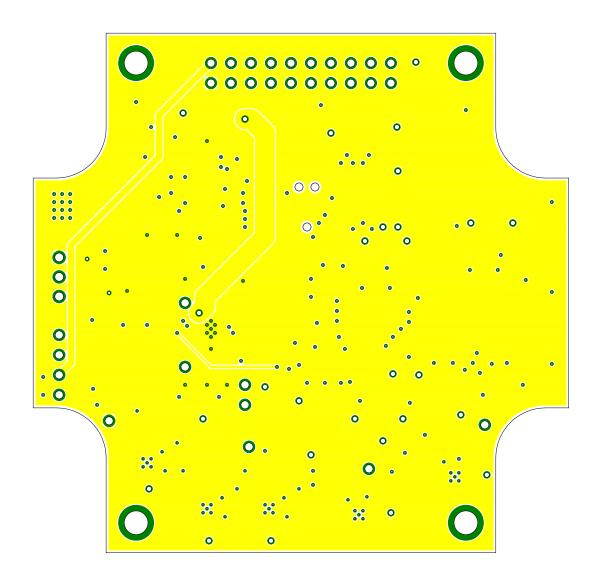


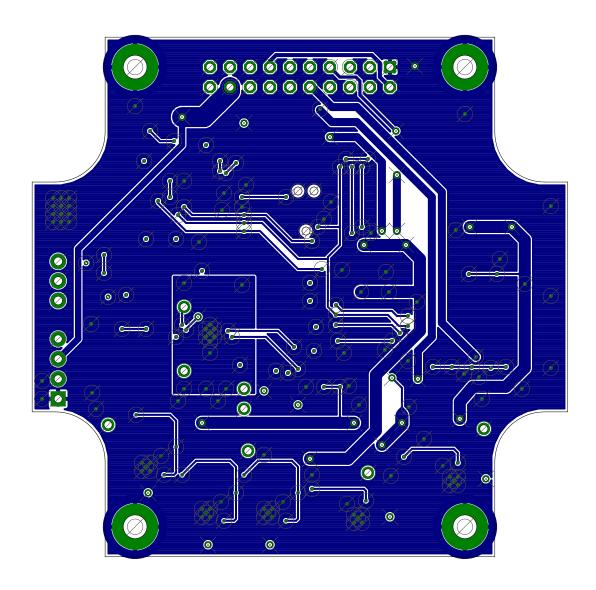


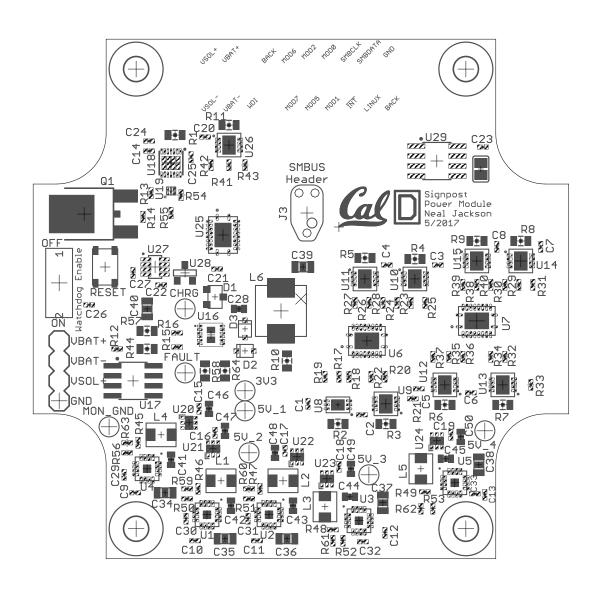


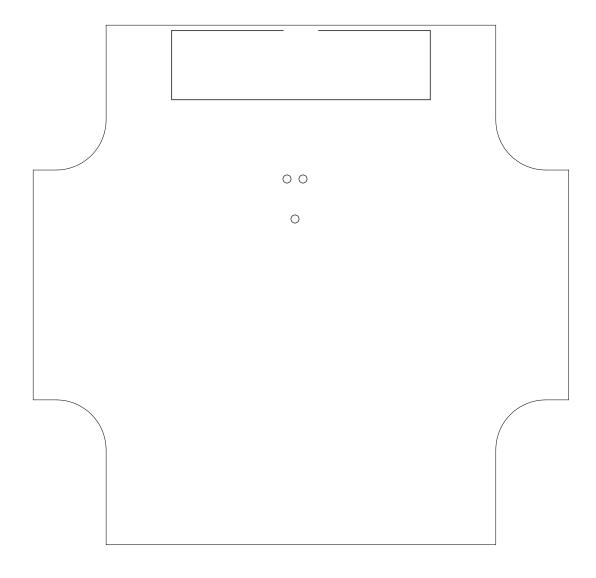


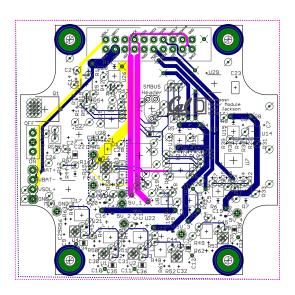


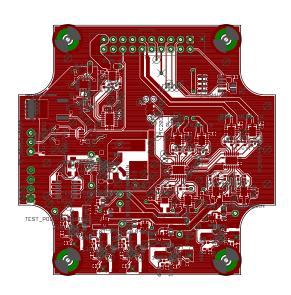


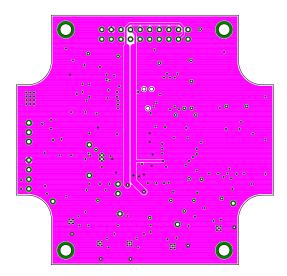


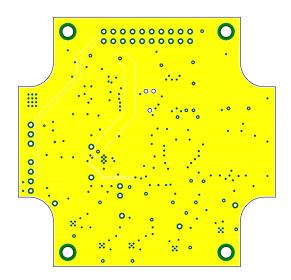


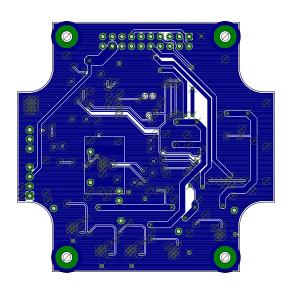












power_supply_module_bom

Qty Value	Device	Package	Parts
1	DIODE_ZENERSOT323	SOD323	D2
1 0.010 Ω	RESISTOR0805_RES	0805_RES	R1
8 0.017 Ω	RESISTOR0805_RES	0805_RES	R2, R3, R4, R
2 0.05 Ω	RESISTOR0805_RES	0805_RES	R10, R11
23 0.1 uF	CAPACITOR0402_CAP	0402_CAP	C1, C2, C3, C
3 0.47 uF	CAPACITOR0402_CAP	0402_CAP	C24, C25, C2
1 0.82 uF	CAPACITOR0402_CAP	0402_CAP	C27
21 ΜΩ	RESISTOR0402_RES	0402_RES	R15, R16
11 ΜΩ	RESISTOR0402_RES	0402_RES	R14
11 kΩ	RESISTOR0402_RES	0402_RES	R12, R13
11 uF	CAPACITOR0603_CAP	0603_CAP	C28
7 10 uF	CAPACITOR0805_CAP	0805_CAP	C34, C35, C3
5 100 kΩ	RESISTOR0402_RES	0402_RES	R45, R46, R4
4 130 kΩ	RESISTOR0402_RES	0402_RES	R50, R51, R5
1 150 Ω	RESISTOR0402_RES	0402_RES	R54, R55
27 2 kΩ	RESISTOR0402_RES	0402_RES	R17, R18, R1
5 2.2 uH	INDUCTORIHL	IHL-1212BZ-11	L1, L2, L3, L4
10 22 uF	CAPACITOR0603_CAP	0603_CAP	C41, C42, C4
1 23.2 kΩ	RESISTOR0805_RES	0805_RES	R44
1 240 kΩ 5 3.3 nF	RESISTOR0402_RES	0402_RES	R56
13.3V	CAPACITOR0402_CAP TILM34803.3V	0402_CAP SOT-23	C29, C30, C3 U28
1 3.3 v 1 301 kΩ	RESISTOR0805_RES	0805_RES	R57
1 340 kΩ	RESISTOR0805_RES	0805_RES	R58
1 6.8uH	INDUCTORIHL2525CZ	IHL-2525CZ	L6
4 680 kΩ	RESISTOR0402_RES	0402_RES	R59, R60, R6
1 750 kΩ	RESISTOR0402_RES	0402_RES	R63
1 953 kΩ	RESISTOR0805_RES	0805_RES	R64
5 AP22814	AP22814	U-DFN2020-6	U20, U21, U2
1 DIODE_SCHOTTKYSOD323	DIODE_SCHOTTKYSOD323	SOD323	D3
1 DIODE_SCHOTTKYSOT-23F	DIODE_SCHOTTKYSOT-23F	SOT-23F	D1
1 ESDR0502N	ESDR0502N	UDFN-6	U19
1 LM234	LM234	SOIC-8	U17
1 LT3652	LT3652	DFN-12/3MM	U16
1 LTC2941	LTC2941	DFN-6-2MMX3MM	U8
8 LTC2943	LTC2943	DFN-8	U9, U10, U11
1 M24C01WMN	M24C01WMN	SOIC-8	U29
1 MAX17205	MAX17205	14-TDFN	U18
1 MAX6746	MAX6746	SOT-23-8	U27
1 MODULE_POWER	MODULE_POWER	MODULE_POWER	J1
1 MOSFET-NCHANNELFDD8580	MOSFET-NCHANNELFDD8580	DPAK	Q1
3 PCA9544AQFN-N20	PCA9544AQFN-N20	QFN-N20	U6, U7, U25
1 PTS810SJ	PTS810SJ	PTS810SJ	RESET
1 TC2030-FTDI-I2C	TC2030-FTDI-I2C	TC2030-IDC-NL	J3
1 TE_SSA12/SPDT	TE_SSA12/SPDT	TE_SSA12/SPDT	S1
5 TLV62130	TLV62130	TQFN-16/3MM	U1, U2, U3, U

power_supply_module_bom

DIGIKEY

MOUSER

1727-5151-1-ND

WSLPB-.01CT-ND

WSLPB-.017CT-ND

WSLPB-.05CT-ND

490-5920-1-ND

450 5520 I ND

490-3266-1-ND

490-10440-1-ND

P1.0KJCT-ND

P1.00MLCT-ND

P1.0KJCT-ND

490-3890-1-ND

490-5523-1-ND

P100KJCT-ND

P130KLCT-ND

P150LCT-ND

P2.00KLCT-ND

541-1322-1-ND

1276-1193-1-ND

P23.2KDATR-ND

FZ3.ZNDATR-NI

P240KLCT-ND

490-3248-1-ND

ZMR330FCT-ND

P301KDATR-ND

P340KDACT-ND

541-2582-1-ND

P680KLCT-ND

P750KJCT-ND

P953KDACT-ND

AP22814ASN-7DICT-ND

CMDSH2-4L CT-ND

CMPSH1-4 CT-ND

ESDR0502NMUTBGOSCT-ND

497-1549-1-ND

LT3652EDD#PBF-ND

LTC2941IDCB#TRMPBFCT-ND

LTC2943IDD#PBF-ND

497-8631-1-ND

700-MAX17205G+00E

MAX6746KA46+TCT-ND

S9172-ND

NTD4965NT4GOSCT-ND

296-20960-1-ND

CKN10504CT-ND

450-1602-ND

296-35978-1-ND