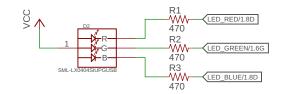
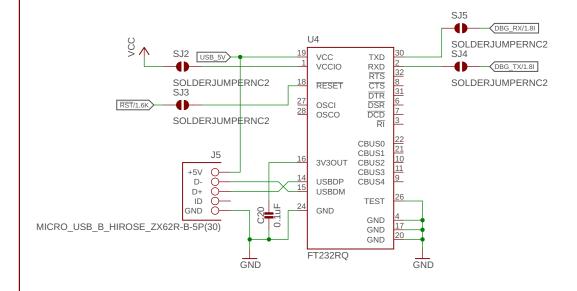
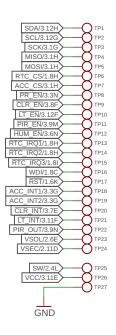


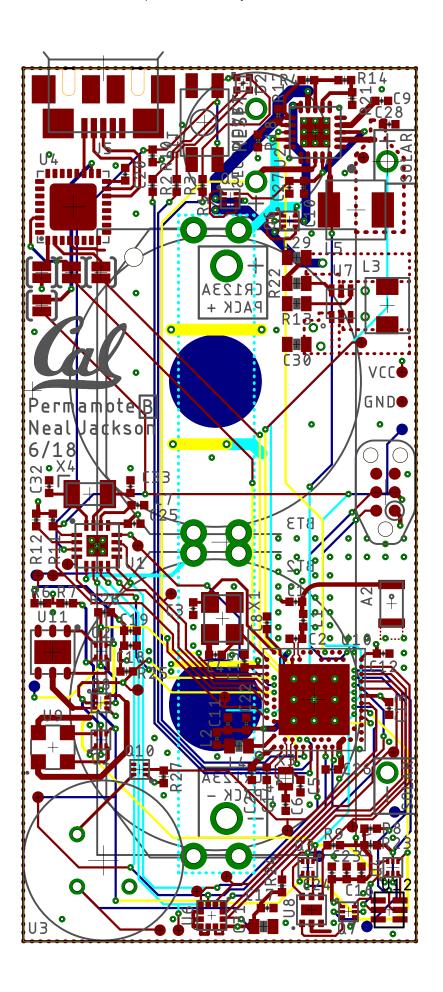
# Debugging

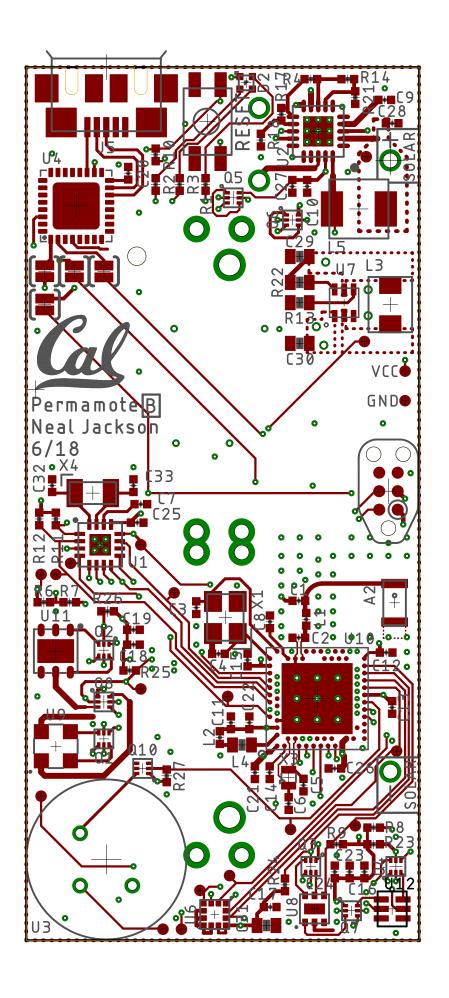


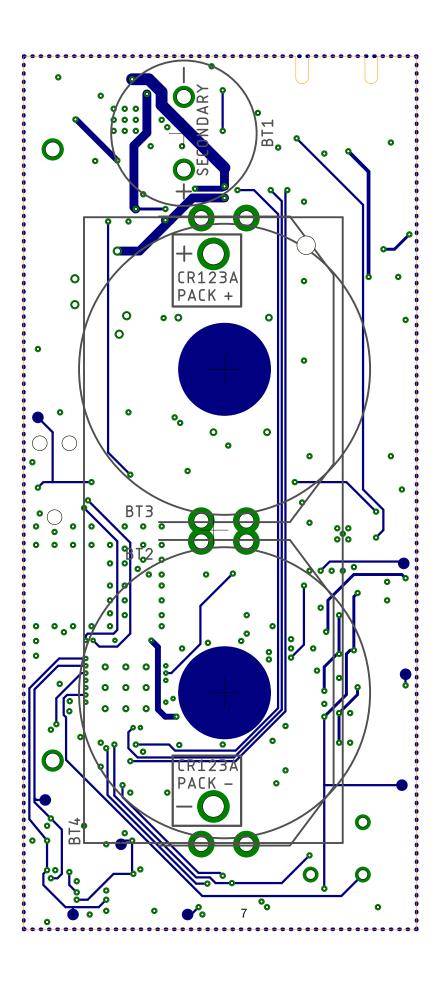


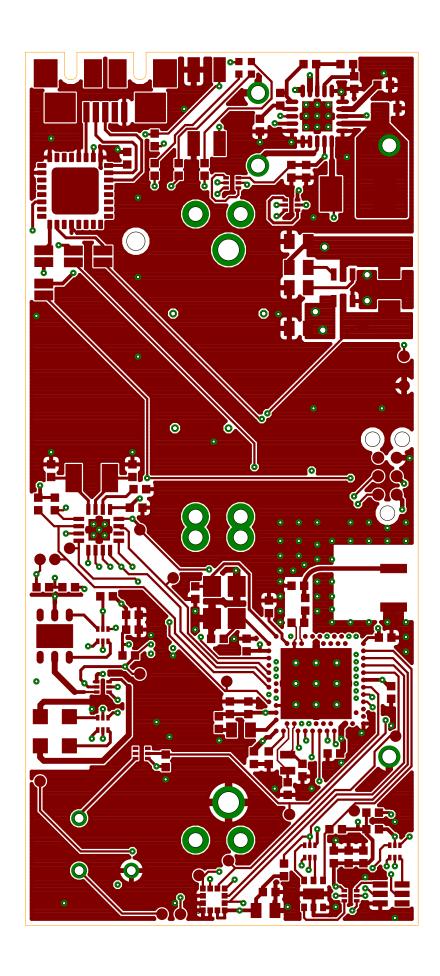


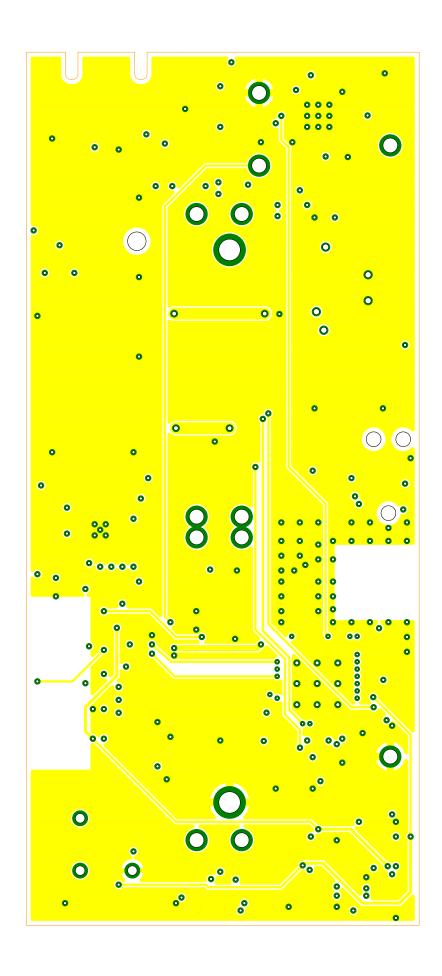
	REV:
PERMAMOTE	В
Author: NEAL JACKSON	
Date: 6/15/18 1:00 PM Sheet:	4/4

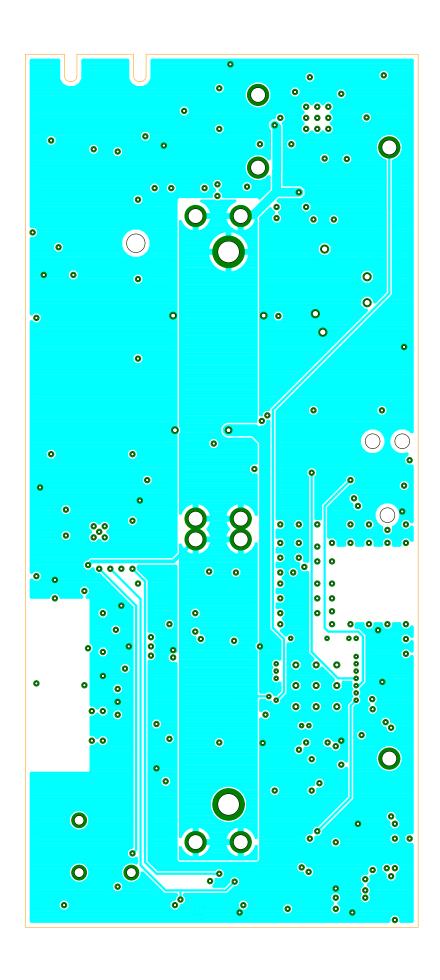


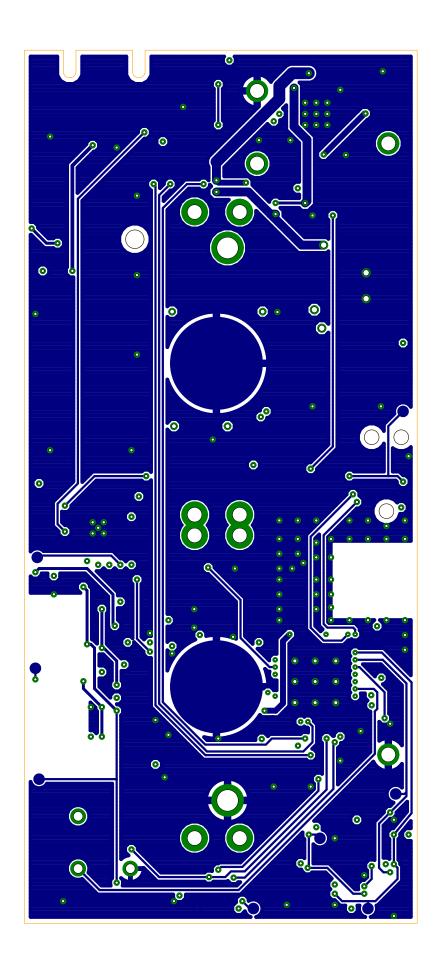


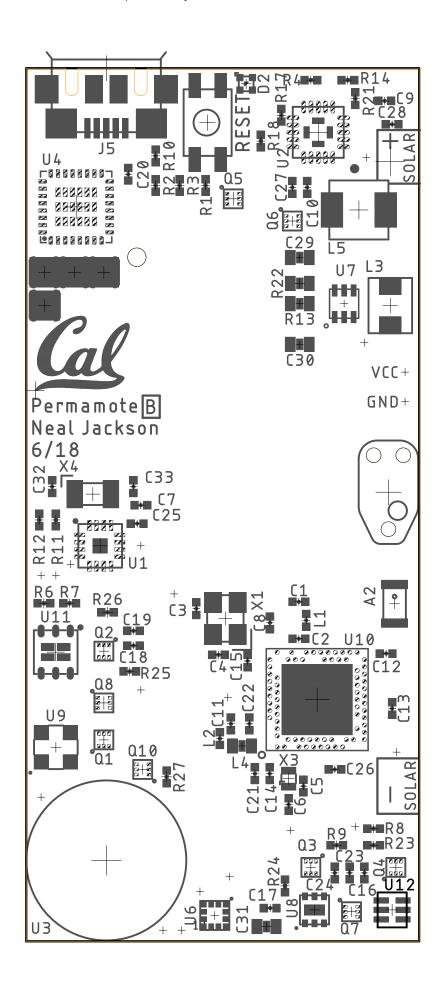


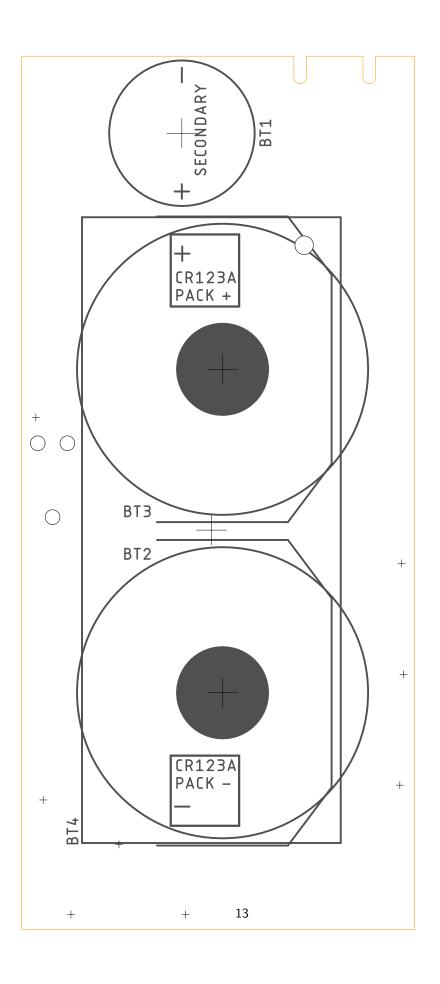


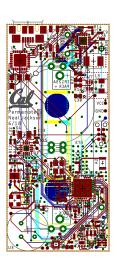


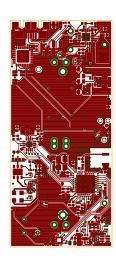


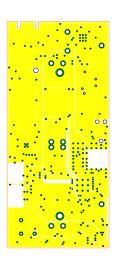


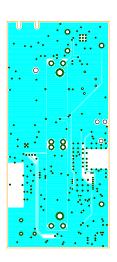


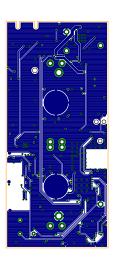












	1	_
(	Qty Value	Device
	9 0.1uF	CAPACITOR0402_CAP
	10.5pF	CAPACITOR0402_CAP
	10.8pF	CAPACITOR0402 CAP
	5 100M	RESISTOR0402_RES
	1 100pF	CAPACITOR0402_CAP
	5 10k	RESISTOR0402 RES
	2 10nF	CAPACITOR0402_CAP
	3 10uF	CAPACITOR0603_CAP
	1 10uH	INDUCTOR0603
	4 12pF	CAPACITOR0402 CAP
	1 15nH	INDUCTOR0402
	5 1uF	CAPACITOR0402_CAP
	1 1uH	INDUCTORIHL
	1 22uH	INDUCTOR74437324220
	1 3.3nH	INDUCTOR0402
	13.9M	RESISTOR0402_RES
	1 32.768kHz	ABS05-32.768KHZ-9-T
	1 32MHz	7V-32.000MAHV-T
	1 33M	RESISTOR0603_RES
	3 4.7uF	<del>-</del>
		CAPACITOR0402_CAP
		RESISTOR0402_RES
	1 47nF	CAPACITOR0402_CAP
	1 47pF	CAPACITOR0402_CAP
	1 6.04k	RESISTOR0402_RES
	1 6.2M	RESISTOR0402_RES
	1 6.8M	RESISTOR0402_RES
	1 80.6k	RESISTOR0603_RES
	1 9.1M	RESISTOR0402_RES
	1 AB1815-T3	AB1815-T3
	1 ABS07-32.768KHZ-7-T	ABS07-32.768KHZ-7-T
	1 ANT3216A063R2400A	ANT3216A063R2400A
	2 BAT-HLD-002-THM	BAT-HLD-002-THM
	1 BAT_PACKCR123A	BAT_PACKCR123A
	1 BQ25505	BQ25505
	2 DNP	CAPACITOR0402_CAP
	2 DNP	RESISTOR0402_RES
	1 EKMB1101111	EKMB1101111
	1 EVQP2	EVQP2
	1 FT232RQ	FT232RQ
	1 LIS2DW12	LIS2DW12
	1 LTOHTC1020	LTOHTC1020
	1 MAX17222	MAX17222
	1 MAX44009	MAX44009
	1 MICRO_USB_B_HIROSE_ZX62R-B-5P(30)	
	1 MS5637-02BA03	MS5637-02BA03
	1 NRF52840	NRF52840
	9 PMDXB950UPEL	PMDXB950UPEL
	1 SI7021-A20-GM1	SI7021-A20-GM1
	1 SML-LX0404SIUPGUSB	SML-LX0404SIUPGUSB

1 SOLARCELLHOLES 1 TCS34725 SOLARCELLHOLES TCS34725

```
Package
0402 CAP
                                     C12, C13, C14, C15, C16, C17, C18, C19, C20
0402 CAP
                                     C1
0402_CAP
                                     C2
0402 RES
                                     R23, R24, R25, R26, R27
0402 CAP
0402_RES
                                     R8, R9, R10, R11, R12
0402 CAP
                                     C9, C10
0603 CAP
                                     C29, C30, C31
0603 CAP
                                     L4
0402 CAP
                                     C3, C4, C5, C6
0402 CAP
                                     L2
0402_CAP
                                     C21, C22, C23, C24, C25
IHL-1212BZ-11
                          74437324220 L5
0402 CAP
                                     L1
0402 RES
                                     R14
ABS05
                                     Х3
TXC-7V
                                     X1
0603-RES
                                     R22
0402 CAP
                                     C26, C27, C28
0402 RES
                                     R1, R2, R3
0402_CAP
                                     C11
0402 CAP
                                     C7
0402_RES
                                     R4
0402_RES
                                     R17
0402 RES
                                     R18
0603-RES
                                     R13
0402 RES
                                     R21
QFN-16-3MM
                                     U1
2-SMD
                                     X4
ANT3216A063R2400A
                                     Α2
BAT-HLD-002-THM
                                     BT2, BT3
                                     BT4
BH123A
                                     U2
S-PVQFN-N20-RGR
                                     C32, C33
0402 CAP
0402 RES
                                     R6, R7
AMN2
                                     U3
EVQP2
                                     S1
QFN32
                                     U4
LGA-12
                                     U6
                                 1020 BT1
UDFN-6-MAXIM
                                     U7
UDFN-6-EXPOSED
                                     U8
MICRO_USB_B_HIROSE_ZX62R-B-5P(30)
                                     J5
4-SMD
                                     U9
AQFN73
XDFN-6
                                     Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10
DFN-6/3MM
                                     U11
1MM_SQ_4PAD
                                     D2
```

SOLAR\_HOLES D1 FN-6 U12

Description SMD Capacitor SMD Capacitor SMD Capacitor

Resistor

Resistor

**SMD Capacitor** 

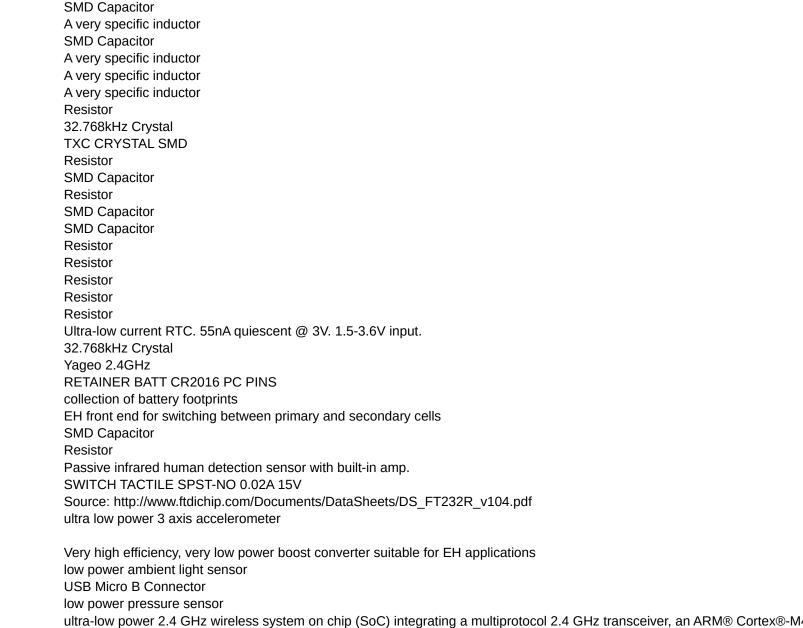
SMD Capacitor SMD Capacitor

A very specific inductor

20 V 500mA, dual P-channel Trench MOSFET

IC TEMP SENSOR RH 2% DFN

1mm<sup>2</sup> RGB LED



Generic solar cell Color Light-to-Digital Converter with IR Filter

DIGIKEY 490-6328-1-ND 490-6264-1-ND 490-6269-1-ND 541-100MAHCT-ND 490-5922-1-ND 311-10KJRCT-ND 490-4516-1-ND 490-3896-1-ND 490-4025-1-ND 490-6197-1-ND 587-1521-1-ND 490-7195-1-ND	MANUFACTURER	MOUSER	MPN GRM155R71C104KA88J GRM1555C1HR50WA01D GRM1555C1HR80BA01D HMC0402JT100M GRM1555C1H101JA01D RC0402JR-0710KL GRM155R71H103KA88D GRM188R60J106ME47D LQM18FN100M00D GRM1555C1H120GA01D HK100515NJ-T GRM155R70G105KA12D
541-1319-1-ND 732-3340-1-ND 535-10426-1-ND YAG3301CT-ND	Vishay Dale		IHLP1212BZER1R0M11 74437324220 AISC-0402-3N3J-T RC0402JR-073M9L
535-11897-1-ND 887-2568-1-ND HMC0603JT33M0CT-ND	Abracon TXC CORPORATION		ABS05-32.768KHZ-9-T 7M-32.000MAHV-T HMC0603JT33M0
445-5947-1-ND 311-470JRCT-ND 445-1264-1-ND 490-5942-1-ND			C1005X5R0J475K050BC RC0402JR-07470RL C1005X7R1C473K050BC GRM1555C1H470JA01D
YAG2293CT-ND YAG3309CT-ND YAG3310CT-ND			RC0402FR-076K04L RC0402JR-076M2L RC0402JR-076M8L
311-80.6KHRCT-ND YAG3322CT-ND 535-11936-1-ND	Abracon		RC0603FR-0780K6L RC0402JR-079M1L AB1815-T3
535-9543-1-ND 311-1542-1-ND BAT-HLD-001-THM-ND	ABRACON YAGEO	712-BAT-HLD-001-THM	ABS07-32.768KHZ-7-T ANT3216A063R2400A BAT-HI D-001-THM
BH123A-ND 296-37078-1-ND	MPD TI	712 57 (1 1125 001 11 11)	BH123A BQ25505RGRR
311-10KJRCT-ND 255-3065-ND P11084SCT-ND	PANASONIC		RC0402JR-0710KL EKMB1101111 EVQ-P2K02Q FT232RQ
	STMicroelectronics	511-LIS2DW12TR	LIS2DW12TR
MAX17222ELT+TCT-ND MAX44009EDT+TCT-ND H125274CT-ND	MAXIM	798-ZX62R-B-5P30	MAX17222ELT+T MAX44009EDT+T ZX62R-B-5P(30)
223-1199-1-ND 1490-1071-1-ND 1727-2601-1-ND 336-3141-ND	TE CONNECTIVITY NORIDIC SEMICONDUCTOR NEXPERIA	634-SI7021-A20-GM1	MS563702BA03-50 NRF52840 PMDXB950UPELZ SI7021-A20-GM1
67-2125-1-ND	Lumex Opto	J. C. JEI / IEO CIVII	SML-LX0404SIUPGUSB

869-1001-ND TCS34725FNCT-ND AM-1454CA TCS34725FN

#### NEWARK OC\_FARNELL OC\_NEWARK Notes

Do Not Populate

Do Not Populate Do Not Populate

1146033 91K9919

Do Not Populate

84Y6712

# permamote\_bom Do Not Populate