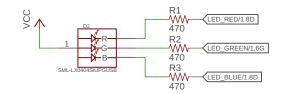
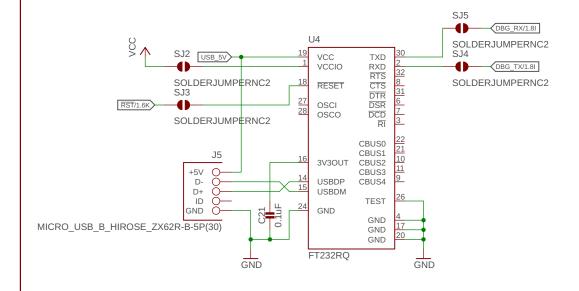
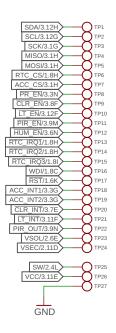


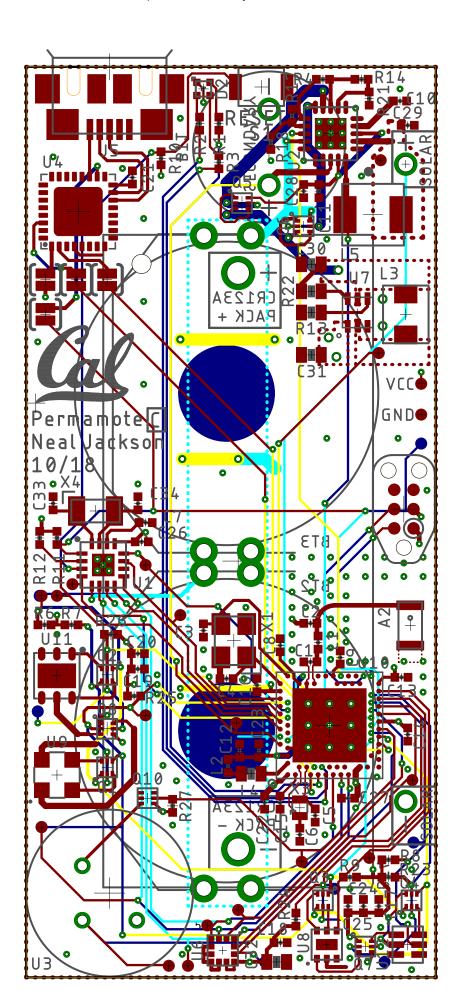
Debugging

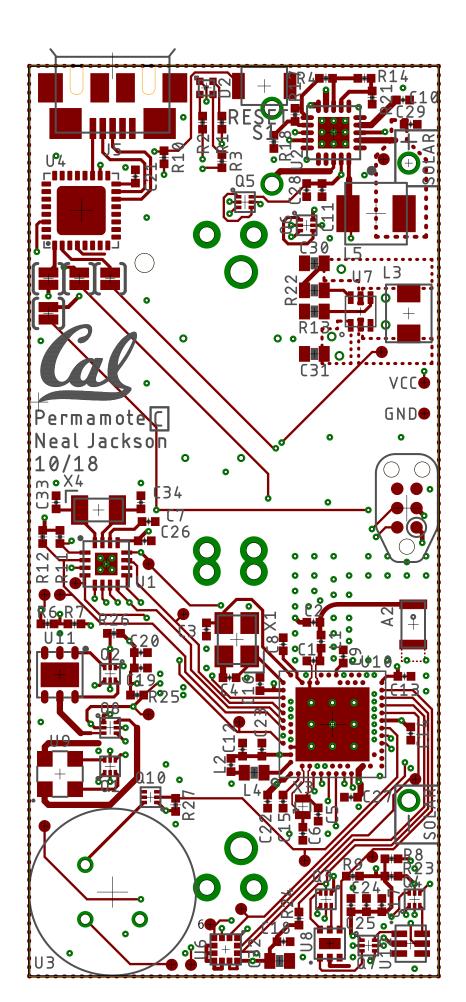


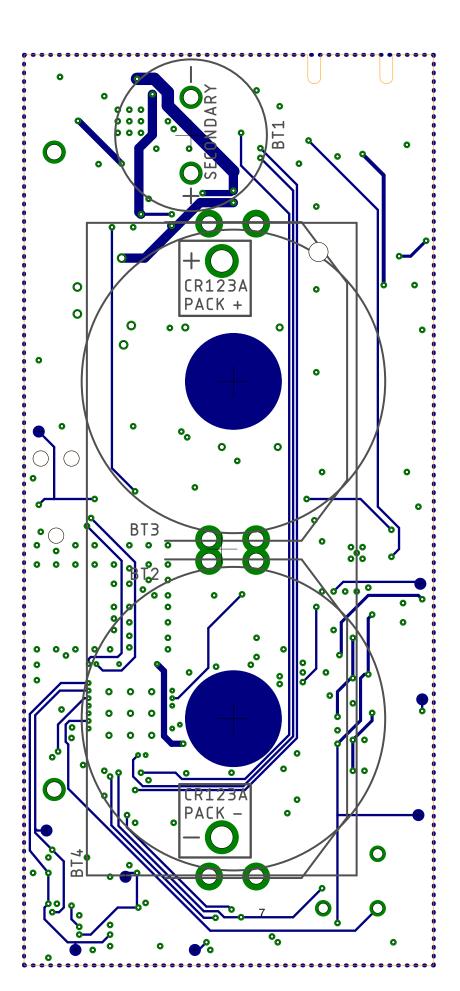


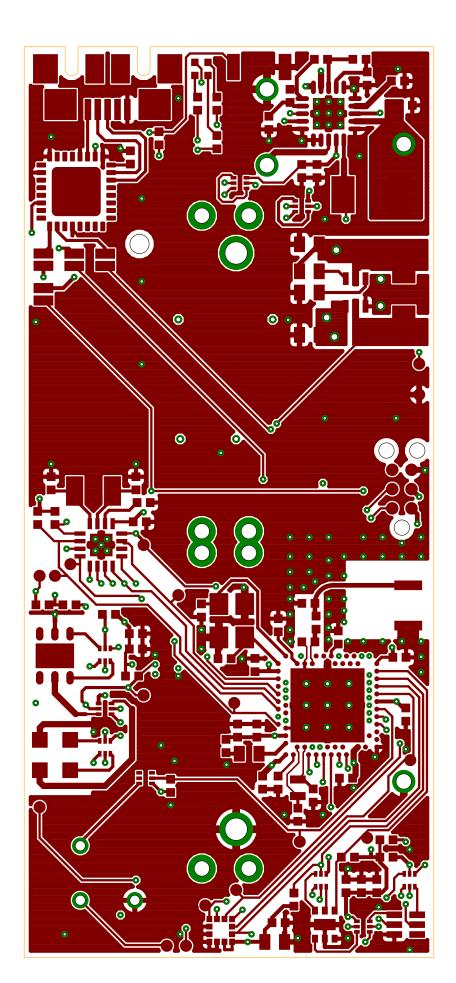


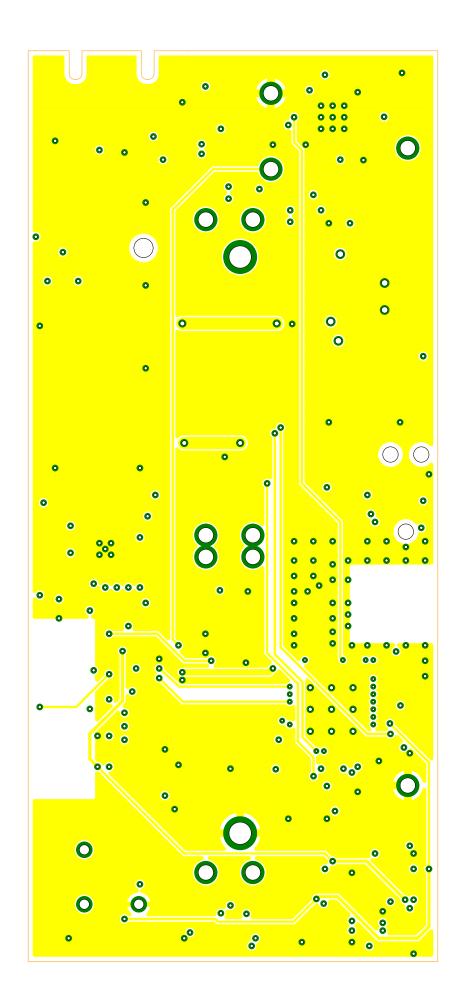
	REV:		
PERMAMOTE			
Author: NEAL JACKSON			
Date: 10/5/18 5:13 PM Sheet: 4	./4		

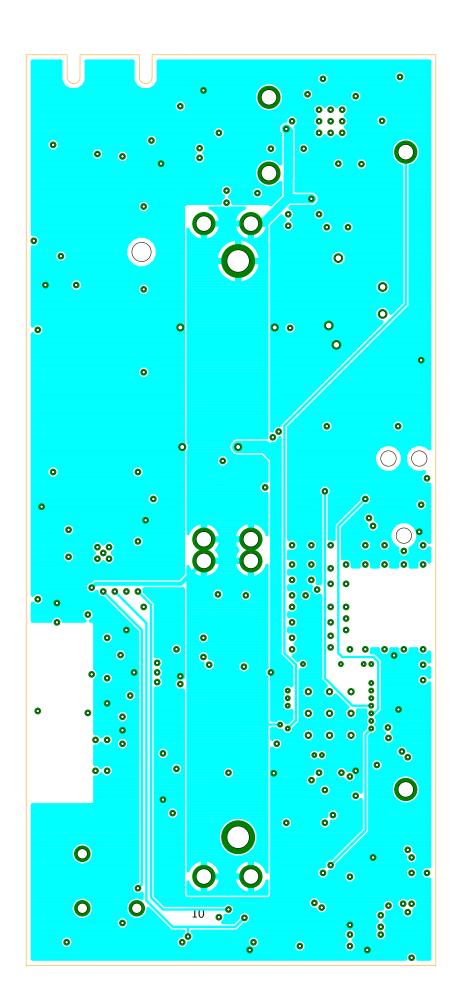


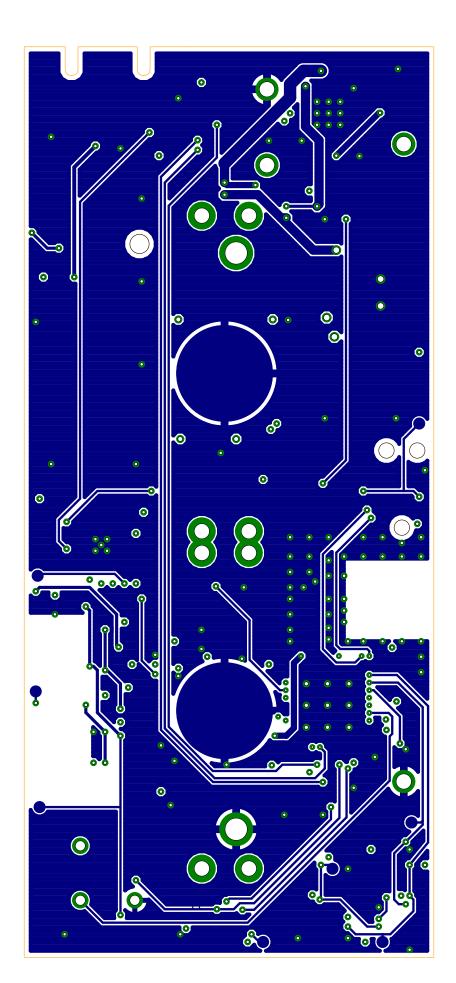


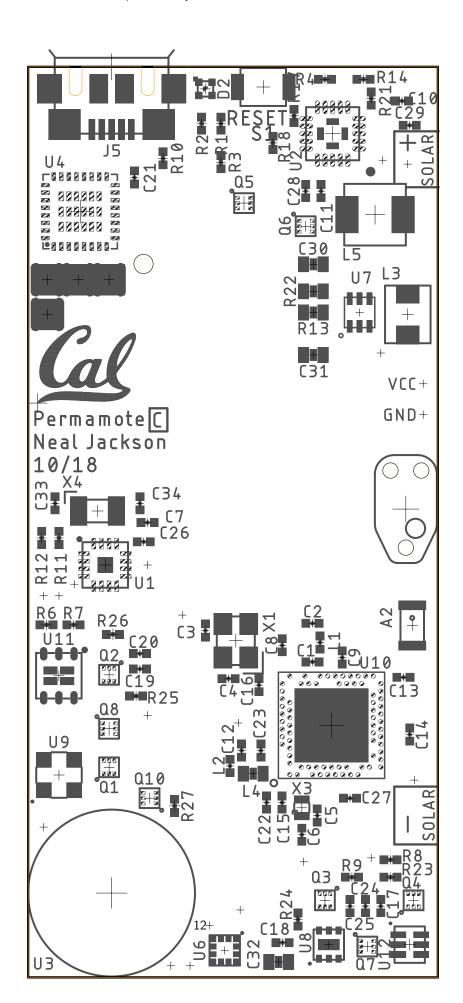


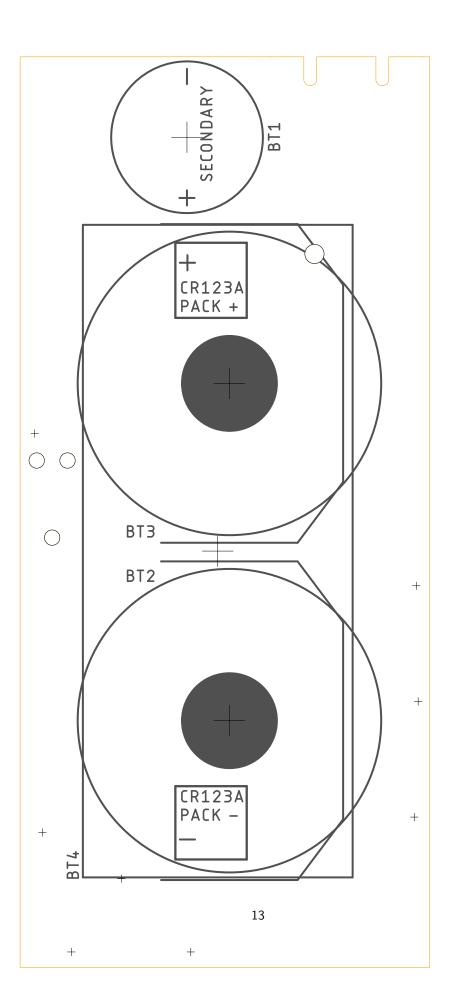


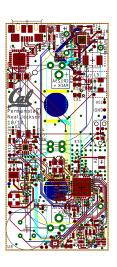


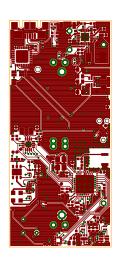


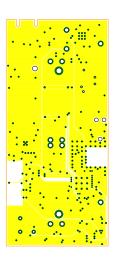




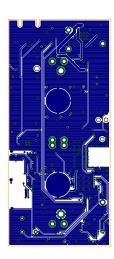












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Qty Value	Device
9 0.1uF	CAPACITOR0402_CAP
5 100M	RESISTOR0402_RES
1 100pF	CAPACITOR0402_CAP
5 10k	RESISTOR0402 RES
2 10nF	CAPACITOR0402_CAP
3 10uF	CAPACITOR0603_CAP
1 10uH	INDUCTOR0603
4 12pF	CAPACITOR0402_CAP
1 15nH	INDUCTOR0402
2 1pF	CAPACITOR0402 CAP
5 1uF	CAPACITOR0402_CAP
1 1uH	INDUCTORIHL
1 22uH	INDUCTOR74437324220
13.9M	RESISTOR0402_RES
1 3.9nH	INDUCTOR0402
1 32.768kHz	ABS05-32.768KHZ-9-T
1 32MHz	7V-32.000MAHV-T
1 33M	RESISTOR0603_RES
3 4.7uF	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 820pF	CAPACITOR0402_CAP
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 B3U-1000P	B3U-1000P
1 FT232RQ	FT232RQ
1 LIS2DW12	LIS2DW12
1 LTOHTC1020	LTOHTC1020
1 MAX17222	MAX17222
1 MAX44009	MAX44009
1 MICRO_USB_B_HIROSE_ZX62R-B-5P(30)	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 1 SOLARCELLHOLES

1 TCS34725

SML-LX0404SIUPGUSB SOLARCELLHOLES TCS34725

Package 0402_CAP 0402_RES 0402_CAP 0402_RES 0402_CAP 0603_CAP 0603_CAP 0402_CAP 0402_CAP 0402_CAP 0402 CAP IHL-1212BZ-11 74437324220 0402_RES 0402_CAP ABS05 TXC-7V 0603-RES 0402_CAP 0402_RES 0402_CAP 0402_CAP 0402_RES 0402_RES 0402 RES 0603-RES 0402_CAP 0402_RES QFN-16-3MM 2-SMD ANT3216A063R2400A BAT-HLD-002-THM BH123A S-PVQFN-N20-RGR 0402_CAP 0402_RES AMN2 B3U-1000P QFN32 LGA-12 1020 **UDFN-6-MAXIM UDFN-6-EXPOSED** MICRO_USB_B_HIROSE_ZX62R-B-5P(30) 4-SMD AQFN73 XDFN-6

DFN-6/3MM

1MM_SQ_4PAD SOLAR_HOLES FN-6

```
Parts
C13, C14, C15, C16, C17, C18, C19, C20, C21
R23, R24, R25, R26, R27
C8
R8, R9, R10, R11, R12
C10, C11
C30, C31, C32
L4
C3, C4, C5, C6
L2
C1, C2
C22, C23, C24, C25, C26
L3
L5
R14
L1
Х3
X1
R22
C27, C28, C29
R1, R2, R3
C12
C7
R4
R17
R18
R13
C9
R21
U1
X4
A2
BT2, BT3
BT4
U2
C33, C34
R6, R7
U3
S1
U4
U6
BT1
U7
U8
J5
U9
U10
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10
U11
```

D2 D1 U12

Description SMD Capacitor Resistor SMD Capacitor

Resistor

SMD Capacitor SMD Capacitor

SMD Capacitor

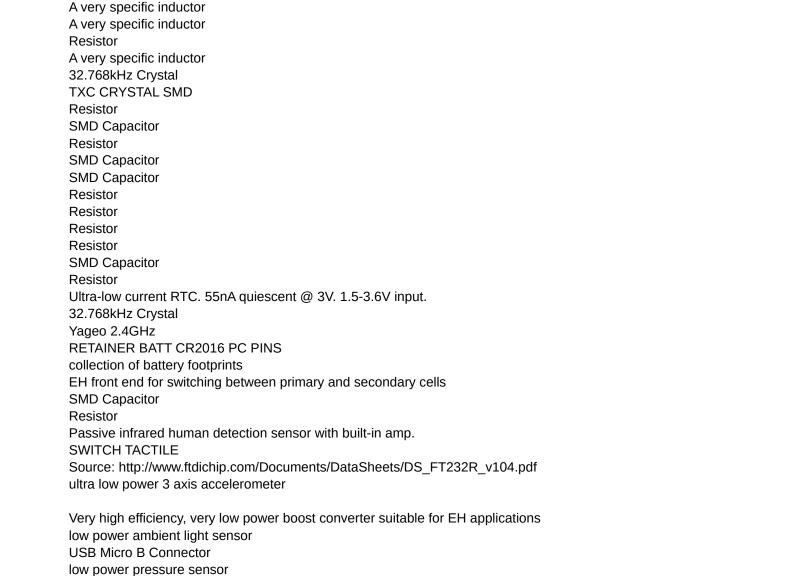
SMD Capacitor SMD Capacitor

A very specific inductor

A very specific inductor

20 V 500mA, dual P-channel Trench MOSFET

IC TEMP SENSOR RH 2% DFN



ultra-low power 2.4 GHz wireless system on chip (SoC) integrating a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-Meaning a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-Meaning a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-Meaning a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-Meaning a multiprotocol 2.4 GHz transceiver.

1mm^2 RGB LED Generic solar cell Color Light-to-Digital Converter with IR Filter

DIGIKEY 490-6328-1-ND HMC0402JT100MCT-ND	MANUFACTURER	MF	MOUSER
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			
1276-1595-1-ND			
490-7195-1-ND			
541-1319-1-ND	Vishay Dale		
732-3340-1-ND			
YAG3301CT-ND			
490-1131-1-ND			
535-11897-1-ND	Abracon		
887-2568-1-ND	TXC CORPORATION		
HMC0603JT33M0CT-ND			
445-5947-1-ND			
311-470JRCT-ND 445-1264-1-ND			
490-5942-1-ND			
YAG2293CT-ND			
YAG3309CT-ND			
YAG3310CT-ND			
311-80.6KHRCT-ND			
1276-6535-1-ND			
YAG3322CT-ND			
535-11936-1-ND	Abracon		
535-9543-1-ND	ABRACON		
311-1542-1-ND	YAGEO		
BAT-HLD-001-THM-ND			712-BAT-HLD-001-THM
BH123A-ND	MPD		
296-37078-1-ND	TI		
311-10KJRCT-ND			
255-3065-ND	PANASONIC		
SW1020CT-ND			
	STMicroelectronics		511-LIS2DW12TR
MAX17222ELT+TCT-ND	MAXIM INTEGRATED		
MAX44009EDT+TCT-ND	MAXIM		
H125274CT-ND			798-ZX62R-B-5P30
223-1199-1-ND	TE CONNECTIVITY		
1490-1071-1-ND	NORIDIC SEMICONDUCTOR		
1727-2601-1-ND	NEXPERIA		
336-3141-ND			634-SI7021-A20-GM1

67-2125-1-ND 869-1001-ND TCS34725FNCT-ND Lumex Opto

MPN NEWARK OC_FARNELL OC_NEWARK

GRM155R71C104KA88J

HMC0402JT100M

GRM1555C1H101JA01D

RC0402JR-0710KL

GRM155R71H103KA88D

GRM188R60J106ME47D

LQM18FN100M00D

GRM1555C1H120GA01D

HK100515NJ-T

CL05C010CB5NNNC

GRM155R70G105KA12D

IHLP1212BZER1R0M11

74437324220

RC0402JR-073M9L

LQP15MN3N9B02D

ABS05-32.768KHZ-9-T

7M-32.000MAHV-T

HMC0603JT33M0

C1005X5R0J475K050BC

RC0402JR-07470RL

C1005X7R1C473K050BC

GRM1555C1H470JA01D

RC0402FR-076K04L

RC0402JR-076M2L

RC0402JR-076M8L

RC0603FR-0780K6L

CL05B821KO5NNNC

RC0402JR-079M1L

AB1815-T3

ABS07-32.768KHZ-7-T

ANT3216A063R2400A

BAT-HLD-001-THM

BH123A

BQ25505RGRR

RC0402JR-0710KL

EKMB1101111

B3U-1000P

FT232RQ

LIS2DW12TR

1146033 91K9919

MAX17222ELT+T

MAX44009EDT+T

ZX62R-B-5P(30)

84Y6712

MS563702BA03-50

NRF52840

PMDXB950UPELZ

SI7021-A20-GM1

SML-LX0404SIUPGUSB AM-1454CA TCS34725FN

permamote_bom Notes
Only populate half of boards. When populating: place solder on ground pads before soldering clips, DNP
DNP DNP
DNP

add kapton tape over CR123A PACK + hole.