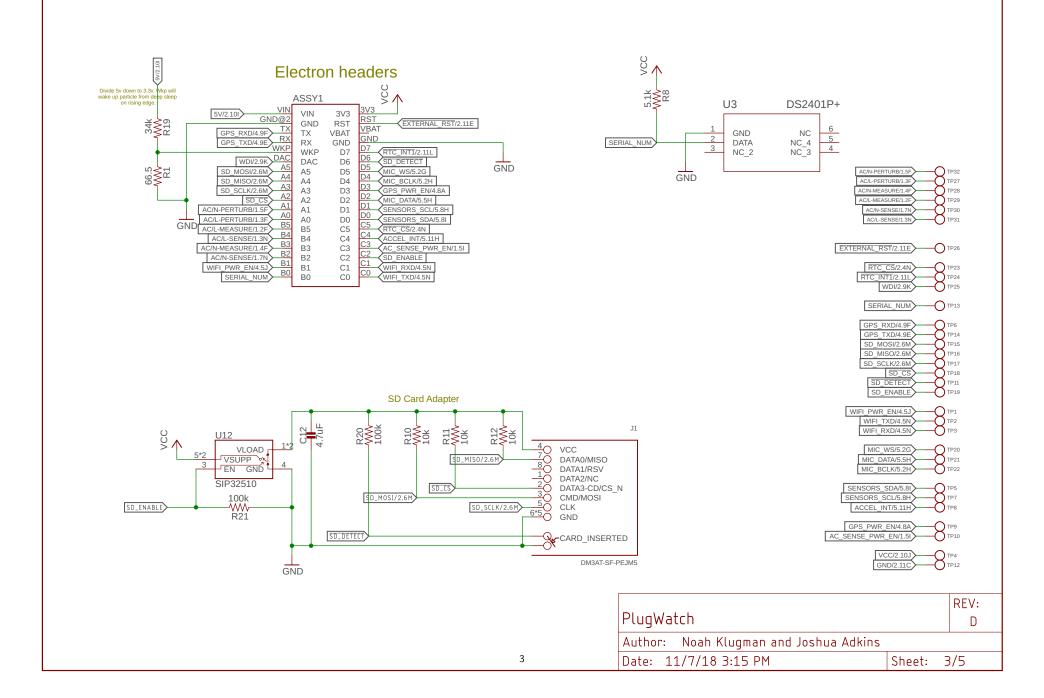
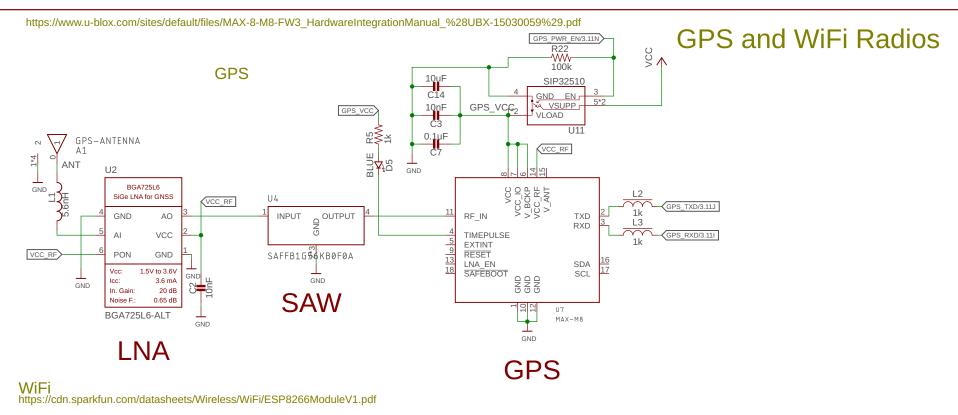
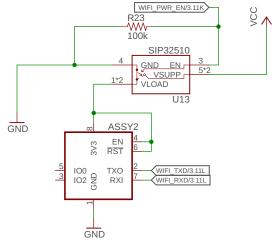


Headers







	REV:
PlugWatch	D

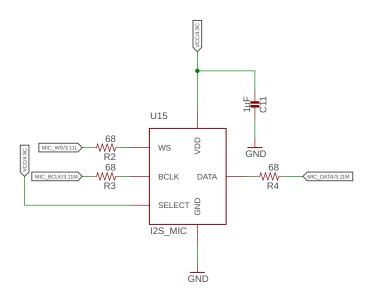
4/5

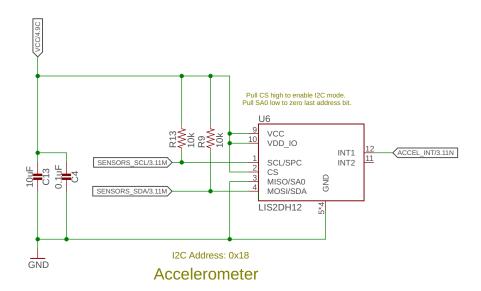
Author: Noah Klugman and Joshua Adkins

Date: 11/7/18 3:15 PM Sheet:

Л

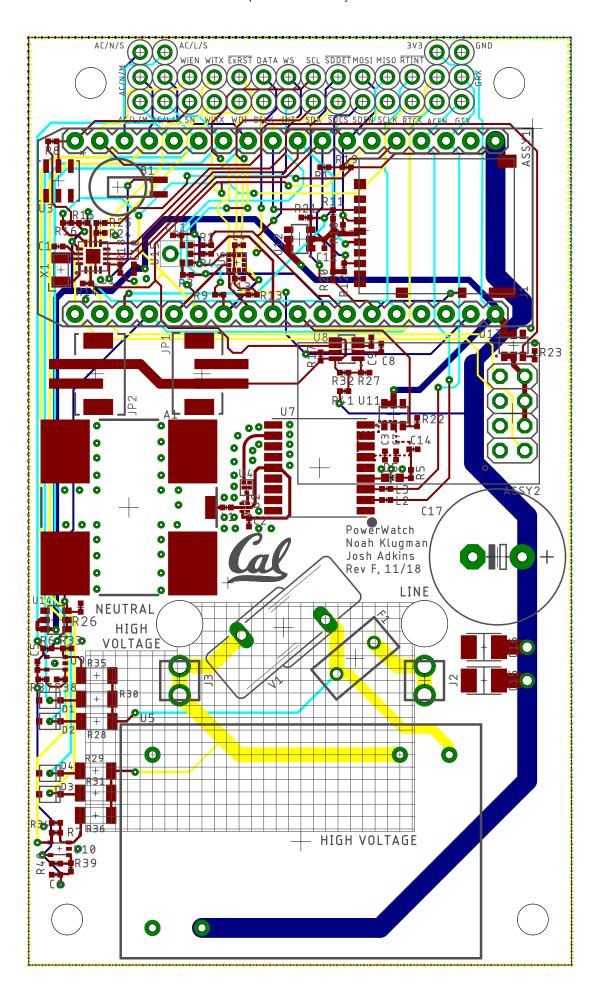
Sensors

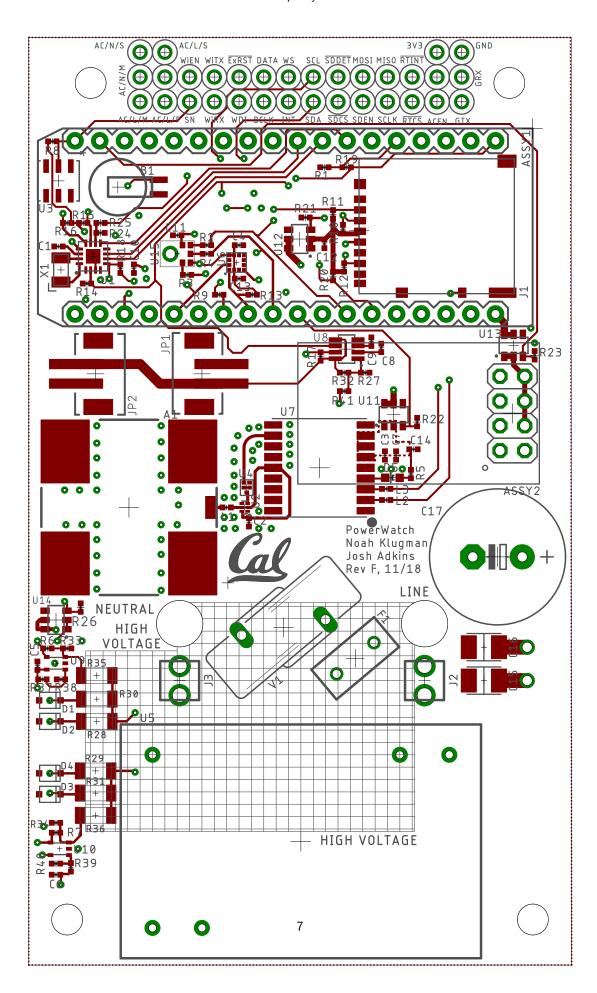


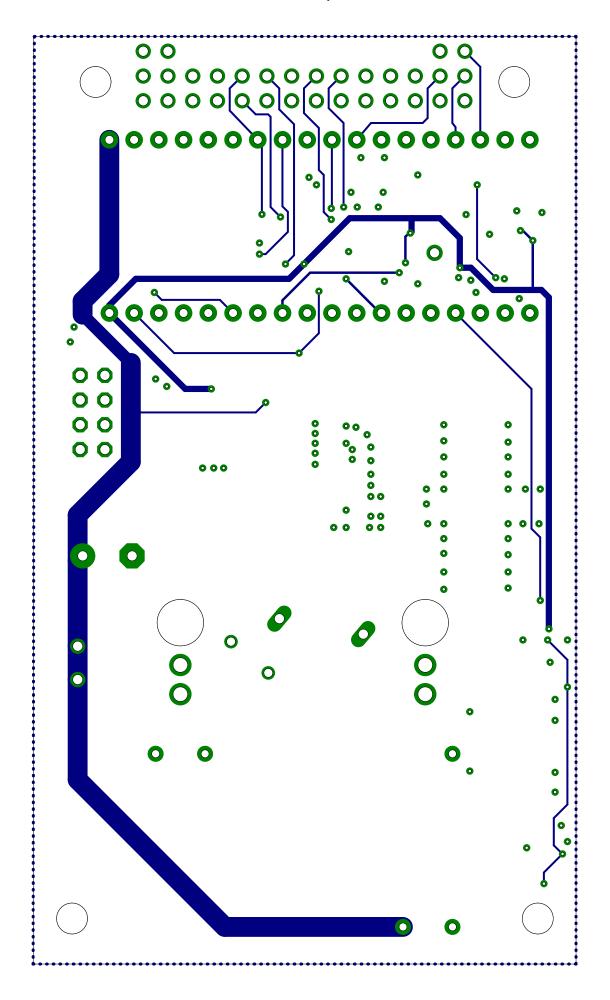


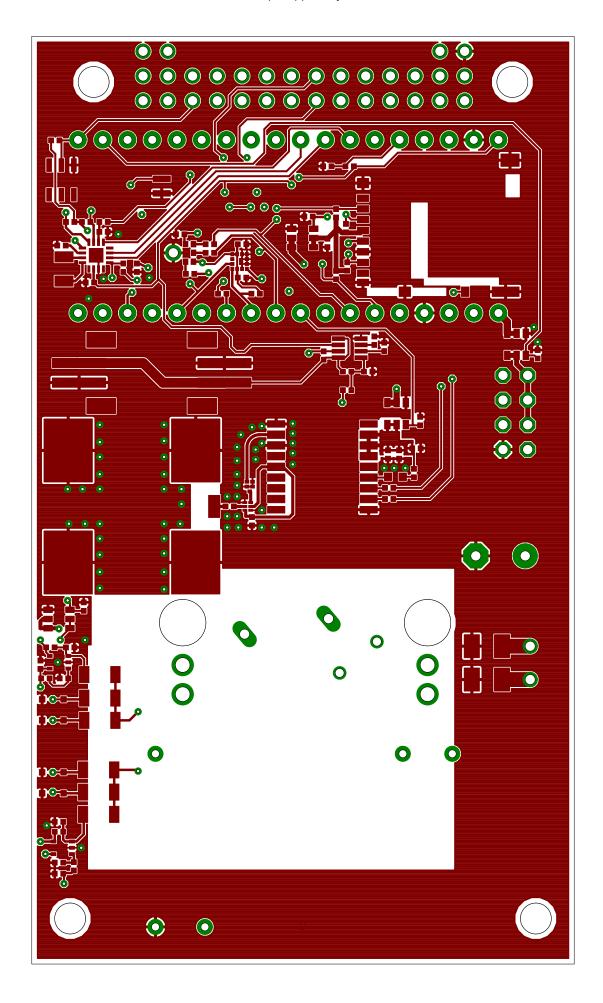
		REV:
PlugWatch		D
Author: Noah Klugman and Joshua Adkins		•
Date: 11/7/18 3:15 PM	Sheet:	5/5

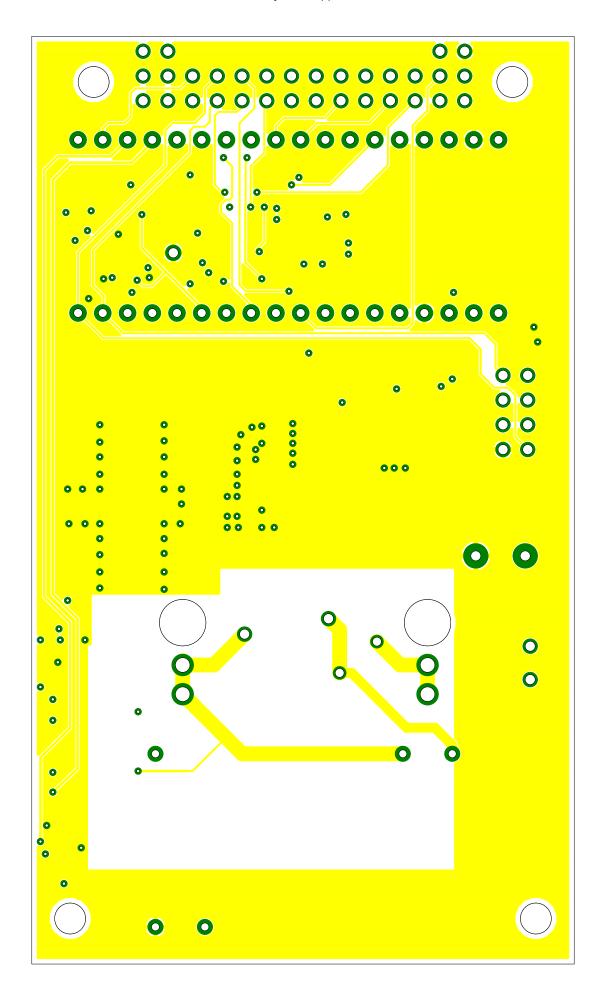
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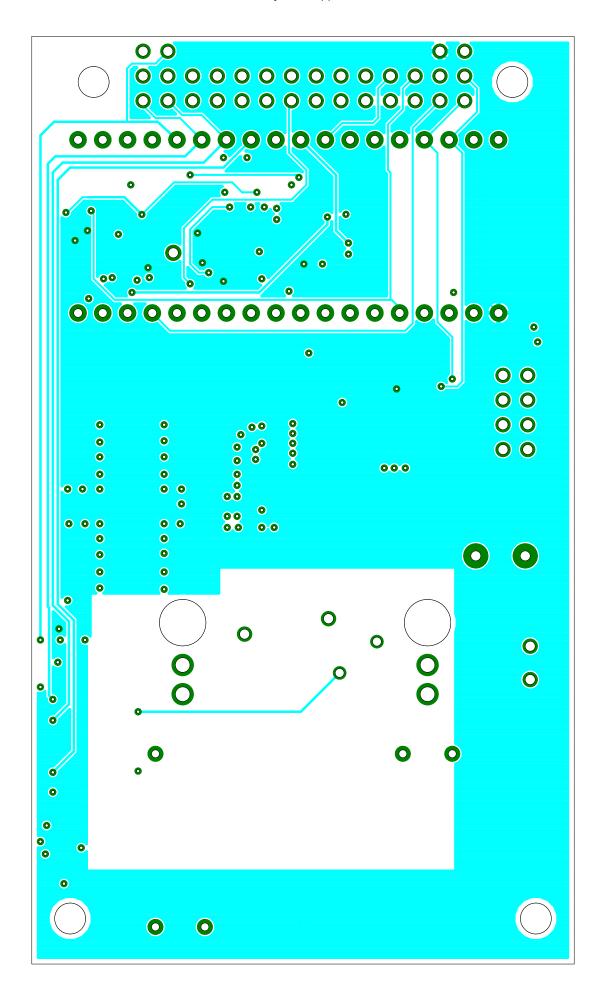


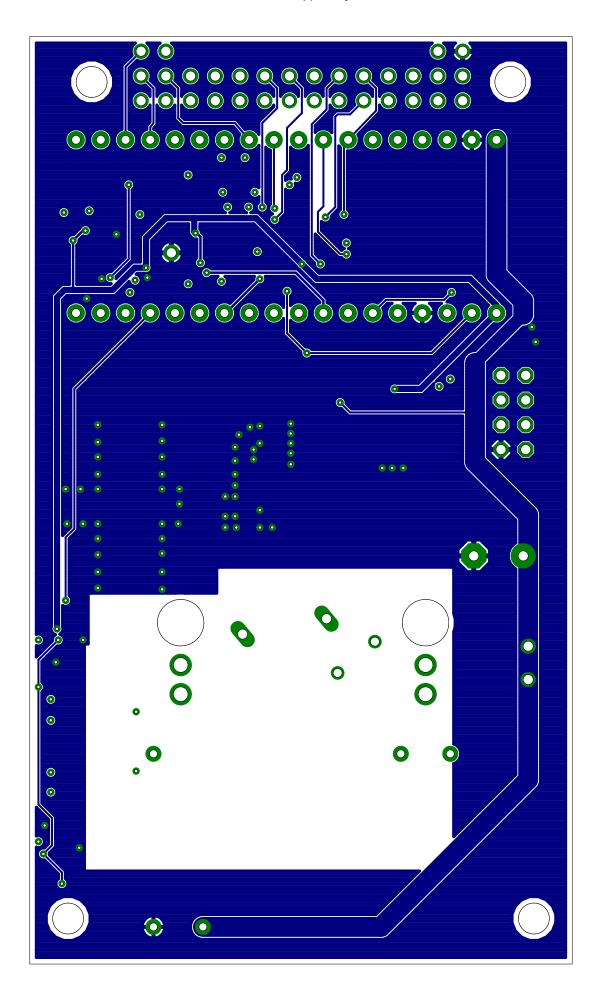


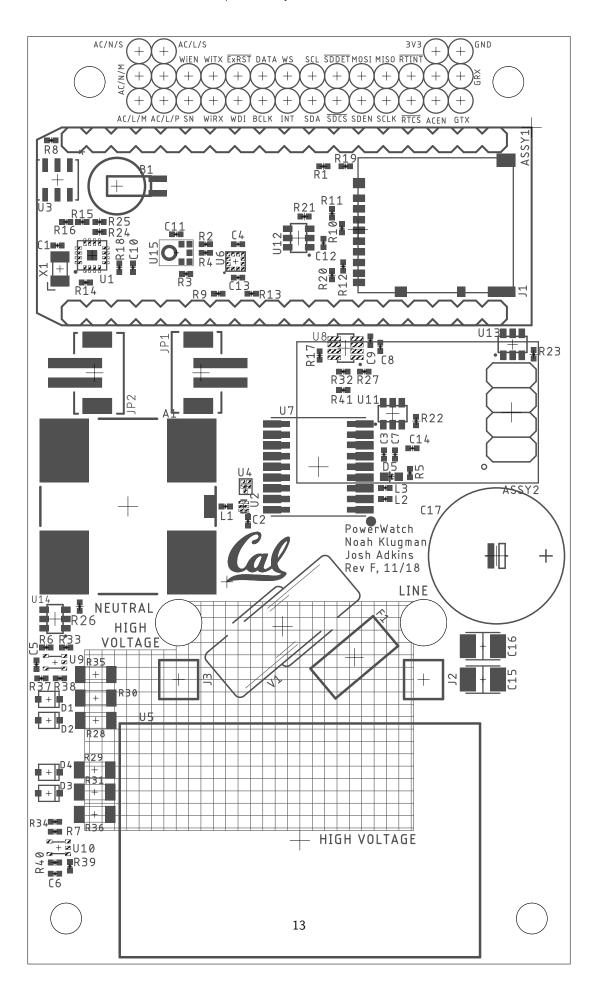


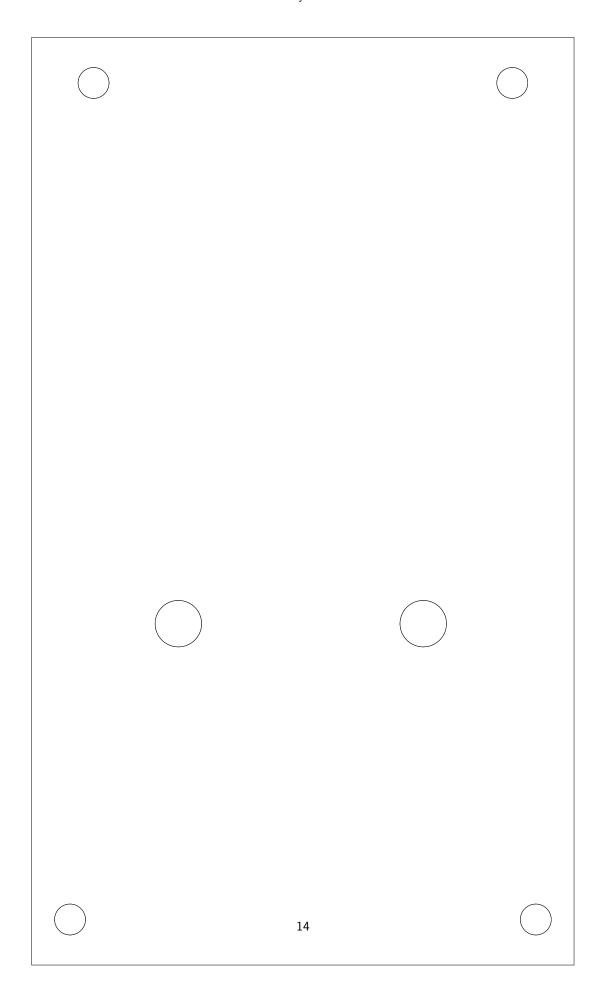


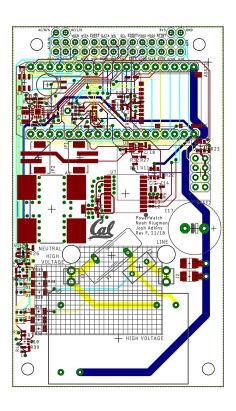


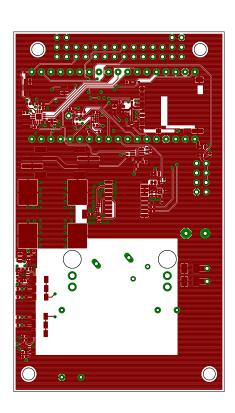


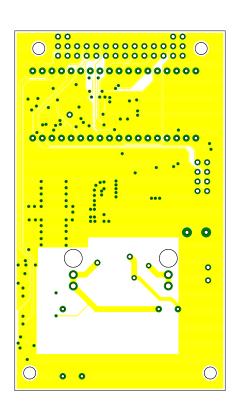


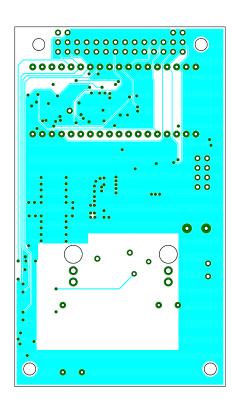


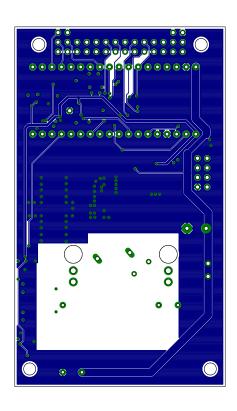












	p145 (440 ii _ 5 5 iii
Qty Value	Device
4	DIODE_ZENERSOT323
2	M024UCON-15767
1	MS518SE
1	SPH0645LM4H-B
4 0.1uF	CAPACITOR0402_CAP
1 0.82uF	CAPACITOR0402 CAP
7 100k	RESISTOR0402 RES
2 100uF	CAPACITOR1210 CAP
10 10k	RESISTOR0402_RES
2 10nF	CAPACITOR0402_CAP
2 10uF	CAPACITOR0402_CAP
4 1M	RESISTOR0402_RES
2 1k	FERRITE_BEAD0402
1 1k	RESISTOR0402_RES
2 1uF	CAPACITOR0402_CAP
1 2.2uF	CAPACITOR0402_CAP
1 2000uF	CPOL-USE5-13
1 300VAC - 500ma	MICRO_FUSE500MA_350VAC
1 34k	RESISTOR0402 RES
1 4.7uF	CAPACITOR0402_KES
24.99k	RESISTOR0402_RES
	_
1 47pF	CAPACITOR0402_CAP
1 499k	RESISTOR0402_RES RESISTOR0402_RES
1 5.1k 1 5.6nH	INDUCTOR0402
	5 RESISTOR0402_RES
	RESISTOR0402_RES
	-
4 750k	RESISTOR1206_RES_HIGH_CLEARANCE
1 825k 2 953k	RESISTOR0402_RES RESISTOR0402_RES
	RESISTOR0402_RES RESISTOR1206_RES_HIGH_CLEARANCE
2 953k	AB1815-T3
1 AB1815-T3 1 ABS07-32.768KHZ-7-T	
1 BGA725L6-ALT	ABS07-32.768KHZ-7-T
1 BLUE	BGA725L6-ALT LED0603
1 DM3AT-SF-PEJM5	DM3AT-SF-PEJM5
1 DS2401P+	DS2401P+
1 ELECTRON	ELECTRON
1 GPS-ANTENNA	GPS-ANTENNA
1 IRM-03-5V	IRM-03-5V
1 LIS2DH12	LIS2DW12
1 MAX-M8	MAX-M8
1 MAX67XXMAX6749MAX67XX	
2 OPA369	OPA369
1 S14K385	\$14K385
1 SAFFB1G56KB0F0A	FILTERS
2 SCREW_TERMNIAL_1	SCREW_TERMNIAL_1
4 SIP32510	SIP32510

WRL-13678

MS518SE-FL35E SPH0465 0402_CAP 0402_CAP 0402_RES 1210 CAP 0402_RES 0402_CAP 0402 CAP 0402 RES 0402_CAP 0402 RES 0402_CAP 0402_CAP E5-13 MIRCRO_FUSE_5MM 0402_RES 0402_CAP 0402 RES 0402 CAP 0402_RES 0402 RES 0402 CAP 0402_RES 0402_RES 1206_RES_HIGH_CLEARANCE 0402_RES 0402_RES 1206_RES_HIGH_CLEARANCE QFN-16-3MM 2-SMD LNA-TSLP-6-2-ALT LED-0603 DM3AT-SF-PEJM5 21-0382 **ELECTRON_SINGLE-ROW** ANT1818B00BT1516S **IRM-03** LGA-12 MAX-M8 SOT-23-8 SC70-5 S14K385 QCS5I 360272-TERMINAL-BLOCK TSOT23-6

Package SOD323

JST-2-SMD-VERT

Parts D1,D2,D3,D4 JP1,JP2 В1 U15 C4,C5,C6,C7 C9 R20,R21,R22,R23,R24,R25,R26 C15,C16 R9,R10,R11,R12,R13,R14,R15,R16,R17,R18 C2,C3 C13,C14 R37,R38,R39,R40, R41 L2,L3 R5 C10,C11 C8 C17 F1 R19 C12 R6,R7 C1 R27 R8 L1 R1 R2,R3,R4 R28,R29,R30,R31 R32 R33,R34 R35,R36 U1 X1 U2 D5 J1 U3 ASSY1 Α1 U5 U6 U7 U8 U9,U10 V1 U4 J2,J3 U11,U12,U13,U14

Description DESCRIPTION

DIODE ZENER 3.3V 200MW SOD323F CONN HEADER PH TOP 2POS 2MM SMD

CAP CER 10UF 6.3V X5R 0402

RES 1M OHM 1% 1/16W 0402

RES SMD 953K OHM 1% 1/16W 0402

A small, low leakage rechargeable battery for RTC backup

An I2S microphone down to 20hz

SMD Capacitor CAP CER 0.1UF 10V X5R 0402

SMD Capacitor

Header 2

 Resistor
 RES SMD 100K OHM 1% 1/16W 0402

 SMD Capacitor
 CAP CER 100UF 10V X5R 1210

 Resistor
 RES SMD 10K OHM 1% 1/16W 0402

 SMD Capacitor
 CAP CER 10000PF 16V X7R 0402

SMD Capacitor SMD Capacitor Resistor

Resistor RES SMD 1K OHM 1% 1/16W 0402 SMD Capacitor CAP CER 1UF 10V X7S 0402

SMD Capacitor

POLARIZED CAPACITOR, American symbol CAP ALUM 2000UF 20% 6.3V T/H

A 5mm AC micro fuse package FUSE BRD MNT 500MA 350VAC 100VDC Resistor RES SMD 34K OHM 1% 1/10W 0402

SMD Capacitor CAP CER 4.7UF 6.3V X5R 0402

Resistor RES SMD 34K OFINI 1% 1/10W 0402

RES SMD 34K OFINI 1% 1/10W 0402

RES SMD 34K OFINI 1% 1/10W 0402

 Resistor
 RES SMD 4.99K OHM 1% 1/10W 0402

 SMD Capacitor
 CAP CER 47PF 100V C0G/NP0 0402

 Resistor
 RES SMD 499K OHM 1% 1/10W 0402

 Resistor
 RES SMD 5.1K OHM 1% 1/10W 0402

 A very specific inductor
 FIXED IND 5.6NH 1.77A 40 MOHM

 Resistor
 RES SMD 66.5 OHM 1% 1/16W 0402

 Resistor
 RES SMD 68 OHM 1% 1/16W 0402

 Resistor
 RES SMD 750K OHM 1% 1/4W 1206

 Resistor
 RES SMD 825K OHM 1% 1/10W 0402

Resistor Resistor

Ultra-low current RTC. 55nA quiescent @ 3V. 1.5-3.6V input.

32.768kHz Crystal

IC AMP MMIC RF LNA 20DB TSLP-6

LED LED BLUE CLEAR SMD

CONN MICRO SD R/A PUSH-PUSH SMD CONN MICRO SD CARD PUSH-PUSH R/A

18 Position header

PATCH ANT GPS/GLO CP SMD

A 5V 3W board mount power supply ultra low power 3 axis accelerometer

A one wire serial number chip.

IC RECEIVER GPS/GNSS 18LCC

A simple watchdog timer with adjustable timeouts and reset time

VARISTOR VARISTOR 620V 5KA DISC 14MM FILTER SAW 1.582GHZ 5SMD

A small, single terminal block

Load switch, slew rate controlled. By Vishay

DIGIKEY MANUFACTURER MOUSER

MM3Z3V3BCT-ND ON Semiconductor 455-1734-1-ND JST Sales America Inc.

728-1054-ND Seiko

423-1405-1-ND Knowles 721-SPH0645LM4H-B

311-1336-1-ND Yageo

490-10440-1-ND Murata Electronics North America

311-100KLRCT-ND Yageo

490-9969-6-ND Murata Electronics North America

311-10.0KLRCT-ND Yageo

490-4762-1-ND Murata Electronics North America 490-13211-1-ND Murata Electronics North America

311-1.00MLRCT-ND Yageo 490-4003-1-ND Murata 311-1.00KLRCT-ND Yageo

490-13409-1-NDMurata Electronics North America490-10448-1-NDMurata Electronics North AmericaP122284TB-NDPanasonic Electronic Components

507-1903-ND Bel Fuse Inc

P34.0KLCT-ND Panasonic Electronic Components
490-5408-1-ND Murata Electronics North America
P4.99KLCT-ND Panasonic Electronic Components
490-7307-1-ND Murata Electronics North America
P499KLCT-ND Panasonic Electronic Components
P5.10KLCT-ND Panasonic Electronic Components

490-11766-1-ND Murata YAG3210CT-ND Yageo

P68.0LCT-ND Panasonic Electronic Components

311-750KFRCT-ND Yageo

P825KLCT-ND Panasonic Electronic Components

YAG3262CT-ND Yageo

P953KBCCT-ND Panasonic Electronic Components

535-11936-1-ND Abracon 535-9543-1-ND ABRACON BGA725L6E6327FTSA1CT-ND Infineon 160-1837-6-ND Lite-On Inc.

HR1964CT-ND Hirose Electric Co Ltd DS2401P+-ND Maxim Integrated

\$7051-ND,\$7051-ND Sullins 311-1531-ND Yageo

1866-3020-ND Mean Well USA

497-14851-1-ND STMicroelectronics 511-LIS2DH12TR

672-1003-1-ND u-blox

 MAX6749KA+TCT-ND
 Maxim Integrated

 296-25252-1-ND
 Texas Instruments

 495-5945-ND
 EPCOS (TDK)

 587-3990-1-ND
 Taiyo Yuden

1849-1246-ND METZ CONNECT USA Inc.

SIP32510DT-T1-GE3CT-ND Vishay

MPN

SPICEPREFIX

MM3Z3V3B

B2B-PH-SM4-TB(LF)(SN)

MS518SE-FL35E

SPH0645LM4H-B

CC0402KRX5R6BB104

GRM155C80J824KE15D

RC0402FR-07100KL

GRM32ER61A107ME20L

RC0402FR-0710KL

GCM155R71H103KA55D

GRJ155R60J106ME11D

RC0402FR-071ML

BLM15HD102SN1D

RC0402FR-071KL

GCM155C71A105KE38D

GRM155D71A225ME15D

EEU-FS0J202B

С

0697H0500-01

ERJ-2RKF3402X

GRM155R60J475ME87D

ERJ-2RKF4991X

GRM1555C2A470JA01D

ERJ-2RKF4993X

ERJ-2RKF5101X

LQW15AN5N6B80D

RC0402FR-0766R5L

ERJ-2RKF68R0X

RC1206FR-07750KL

ERJ-2RKF8253X

RC0402FR-07953KL

ERA-8AEB9533V

AB1815-T3

ABS07-32.768KHZ-7-T

BGA725L6E6327FTSA1

LTST-C194TBKT

DM3AT-SF-PEJM5

DS2401P+ X

PPPC181LFBN-RC

ANT1818B00BT1516S

IRM-03-5

LIS2DH12TR

MAX-M8Q-0

MAX6749KA+T

OPA369AIDCKR

B72214S2381K101

F6QA1G582H2JM-J

360272

SIP32510DT-T1-GE3