

TITLE: Bill of Materials
DATE: 04/11/2018
DESIGN: maxrefdes96_apps_a

ITEM	QTY	REF DES	Var Status	MAXINV	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	1	BT1	Pref	58-BK890-00	BK-890	MEMORY PROTECTION DEVICES INC.	BK-890	BATTERY HOLDER; THROUGH HOLE; 12MM COIN CELL RETAINER
2	1	C1	Pref	20-000U1-BA62	GMK105BJ104KV-F	TAIYO YUDEN	0.1UF	CAPACITOR; SMT (0402); CERAMIC; 0.1UF; 35V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
3	2	C2, C4	Pref	20-002U2-A29	C1608X5R1C225M080AB	TDK	2.2UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 2.2UF; 16V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
4	4	C3, C8, C12, C16	Pref	20-0010U-A48	C1608X5R1A106M080AC	TDK	10UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 10UF; 10V; TOL=20%; MODEL=C SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R
5	4	C5, C6, C18, C26	Pref	20-0001U-33A	C1005X5R1A105M050	TDK	1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
6	2	C9, C10	Pref	20-0010U-A29	GRM188R61C106M	MURATA	10UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 10UF; 16V; TOL=20%; MODEL=GRM SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R
7	4	C11, C15, C20, C60	Pref	20-000U1-E2A	GRM155R61C104KA88	MURATA	0.1UF	CAPACITOR; SMT (0402); CERAMIC; 0.1UF; 16V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC to +85 DEGC; TC=X5R
8	2	C19, C21	Pref	20-0U047-16B	GRM155R61A473KA01	MURATA	0.047UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.047UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
9	1	C25	Pref	20-004U7-16S	GRM188R61A475ME15	MURATA	4.7UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7UF; 10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
10	3	D1-D3	Pref	30-SMLLX0603GWTR-00	SML-LX0603GW-TR	LUMEX OPTOCOMPONENTS INC.	SML-LX0603GW-TR	DIODE; LED; STANDARD; GREEN; SMT (0603); PIV=5.0V; IF=0.1A; -25 DEGC TO +85 DEGC
11	2	D11, D13	Pref	30-MBRS320-00	MBRS320	FAIRCHILD SEMICONDUCTOR	MBRS320	DIODE; SCH; SMC (DO-214AB); PIV=20V; IF=3A
12	1	J1	Pref	01-69307101081112P-26	693071010811	WURTH ELECTRONICS INC	693071010811	CONNECTOR; FEMALE; SMT; MICRO SD CARD CONNECTOR; PUSH AND PUSH; WITH CARD DETECTION 8 PINS; RIGHT ANGLE; 12PINS
13	1	J2	Pref	00-SAMPLE-01	CCH02035C	ELECROW	CCH02035C	EVKIT PART - CONNECTOR; 2X3 STACKABLE HEADER FOR ARDUINO SHIELD; STRAIGHT; 6PINS
14	1	J3	Pref	01-SSQ10623GS6P-17	SSQ-106-23-G-S	SAMTEC	SSQ-106-23-G-S	CONNECTOR; FEMALE; THROUGH HOLE; SSQ SERIES; STRAIGHT; 6PINS
15	2	J4, J5	Pref	01-SSQ10823GS8P-17	SSQ-108-23-G-S	SAMTEC	SSQ-108-23-G-S	CONNECTOR; FEMALE; THROUGH HOLE; SSQ SERIES; STRAIGHT; 8PINS
16	1	J6	Pref	01-SSQ11023GS10P-17	SSQ-110-23-G-S	SAMTEC	SSQ-110-23-G-S	CONNECTOR; FEMALE; THROUGH HOLE; SSQ SERIES; STRAIGHT; 10PINS
17	1	J7	Pref	01-S2BPHKS2P-19	S2B-PH-K-S(LF)(SN)	JST MANUFACTURING	S2B-PH-K-S(LF)(SN)	CONNECTOR; MALE; THROUGH HOLE; 2.0MM PITCH; DISCONNECTABLE CRIMP STYLE CONNECTOR; SIDE ENTRY TYPE; RIGHT ANGLE; 2PINS
18	1	J8	Pref	01-1010359400015P-26	10103594-0001LF	FCI CONNECT	10103594-0001LF	CONNECTOR; FEMALE; THROUGH HOLE; MICRO USB 2.0 B RECEPTACLE STD SMT PLUS DIP; RIGHT ANGLE; 5PINS
19	1	L1	Pref	50-00U47-0JR	DfE201610P-R47M=P2	MURATA	0.47UH	INDUCTOR; SMT (2016); METAL ALLOY CHIP; 0.47UH; TOL=+/-20%; 3.6A
20	2	R1, R2	Pref	80-002K2-23	CRCW04022K20FK; RC0402FR-072K2L	VISHAY DALE; YAGEO PHICOMP	2.2K	RESISTOR, 0402, 2.2K OHM, 1%, 100PPM, 0.0625W, THICK FILM
21	2	R3, R35	Pref	80-00R01-25	WSL0805R0100F	VISHAY DALE	0.01	RESISTOR; 0805; 0.01 OHM; 1%; 75PPM; 0.125W; METAL FILM
22	2	R4, R42	Pref	80-0200K-23	CRCW0402200KFK; RF73H1ELTP2003	VISHAY DALE; KOA SPEER ELECTRONICS	200K	RESISTOR; 0402; 200K; 1%; 100PPM; 0.0625W; THICK FILM
23	8	R7, R8, R11, R23, R34, R38, R40, R61	Pref	80-0010K-23	CRCW040210K0FK; RC0402FR-0710K	VISHAY DALE; YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM
24	1	R9	Pref	80-0470K-23	ERJ-2RKf4703X	PANASONIC	470K	RESISTOR, 0402, 470K OHM, 1%, 100PPM, 0.0625W, THICK FILM
25	13	R12-R15, R18, R19, R24-R27, R41, R43, R44	Pref	80-0100K-23	CRCW0402100KFK; RC0402FR-07100KL	VISHAY DALE;YAGEO PHICOMP	100K	RESISTOR; 0402; 100K; 1%; 100PPM; 0.0625W; THICK FILM
26	3	R20-R22	Pref	80-0001K-24	CRCW06031K00FK;ERJ-3EKF1001V	VISHAY DALE;PANASONIC	1K	RESISTOR; 0603; 1K; 1%; 100PPM; 0.10W; THICK FILM
27	1	R30	Pref	80-0010R-24	CRCW060310R0FK; MCR03EZPFX10R0	VISHAY DALE; ROHM	10	RESISTOR; 0603; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
28	1	R31	Pref	80-0001K-23	CRCW04021K00FK; RC0402FR-071KL	VISHAY DALE; YAGEO PHICOMP	1K	RESISTOR; 0402; 1K; 1%; 100PPM; 0.0625W; THICK FILM
29	2	R32, R33	Pref	80-0150R-24	CRCW0603150RfK;ERJ-3EKF1500V	VISHAY DALE; PANASONIC	150	RESISTOR; 0603; 150 OHM; 1%; 100PPM; 0.10W; THICK FILM
30	1	R47	Pref	80-0000R-BA47	CRCW08050000Z0EAHP	VISHAY DRALORIC	0	RESISTOR; 0805; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM
31	3	R51, R52, R54	Pref	80-0002K-23	CRCW04022K00FK; RK73H1ETTP2001F	VISHAY DALE; KOA SPEER	2K	RESISTOR; 0402; 2K; 1%; 100PPM; 0.0625W; THICK FILM
32	5	R56-R60	Pref	80-0000R-26A	ERJ-2GE0R00X	PANASONIC	0	RESISTOR; 0402; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM
33	2	SW1, SW2	Pref	11-KSR231GLFS-00	KSR231GLFS	C&K COMPONENTS	KSR231GLFS	SWITCH; SPST; SMT; 32V; 0.05A; KSR SERIES; SUBMINIATURE TACT SWITCH; RCOIL=0.1 OHM; RINSULATION=10G OHM; C&K COMPONENTS
34	1	U1	Pref	10-MAX77818EWZ-B	MAX77818EWZ+	MAXIM	MAX77818EWZ+	IC; PWRM; DUAL INPUT; POWER PATH; 3A SWITCH MODE CHARGER WITH FG; BGA72
35	1	U2	Pref	10-DS3231M-W	DS3231M+	MAXIM	DS3231M+	IC; CLK; +/-5PPM; I2C REAL-TIME CLOCK; WSOIC16
36	1	U3	Pref	10-MAX7369EUP-U	MAX7369EUP+	MAXIM	MAX7369EUP+	IC; MUX; 4-CHANNEL I2C SWITCH/MULTIPLEXER; TSSOP20
37	1	U4	Pref	10-MAX7315ATE-T	MAX7315ATE+	MAXIM	MAX7315ATE+	IC; XPND; 8-PORT I/O EXPANDER WITH LED INTENSITY CONTROL; INTERRUPT; AND HOT-INSERTION PROTECTION; TQFN16-EP

38	1	U5	Pref	00-SAMPLE-02	MAX17201G+	MAXIM	MAX17201G+	EVKIT PART; IC; PACKAGE CODE T1433+2
39	1	U6	Pref	10-74HC4050PW-U	74HC4050PW	NXP	74HC4050PW	IC; INV; HEX NON-INVERTING HIGH-TO-LOW LEVEL SHIFTER; TSSOP16
40	1	PCB	-	N/A	MAXREFDES96_APPS_A	MAXIM	PCB	PCB:MAXREFDES96_APPS_A
TOTAL	88							
DO NOT PURCHASE(DNP)								
ITEM	QTY	REF DES	Var Status	MAXINV	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	12	B+, B-, EXINT, EXSCL, EXSDA, GND, SO1, SO2, SYS, THM, THMGND, TP1	DNP	N/A	N/A	N/A	TP59TH	TEST POINT; PAD DIA = 100 MILS; BOARD HOLE = 59 MILS
2	2	R37, R39	DNP	80-0010K-23	CRCW040210K0FK; RC0402FR-0710K	VISHAY DALE;YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM
3	1	R46	DNP	80-0000R-BA47	CRCW08050000Z0EAHP	VISHAY DRALORIC	0	RESISTOR; 0805; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM
4	3	R50, R53, R55	DNP	80-0002K-23	CRCW04022K00FK; RK73H1ETTP2001F	VISHAY DALE;KOA SPEER	2K	RESISTOR; 0402; 2K; 1%; 100PPM; 0.0625W; THICK FILM
TOTAL	18							
PACKOUT (These are purchased parts but not assembled on PCB and will be shipped with PCB)								
ITEM	QTY	REF DES	Var Status	MAXINV	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	1	PACKOUT_BOX	Pref	88-00713-LRG	88-00713-LRG	N/A	N/A	BOX;+;LARGE BROWN 15 1/8" X 8 3/4 X 3"
2	1	PACKOUT_BOX	Pref	87-02163-000	87-02163-000	N/A	N/A	ESD BAG;+;BAG; STATIC SHIELD ZIP 8"X10"; W/ ESD LOGO
3	3	PACKOUT_BOX	Pref	85-MAXKIT-PNK	85-MAXKIT-PNK	N/A	N/A	PINK FOAM;FOAM;ANTI-STATIC PE 12inX12inX5MM - PACKOUT
4	3	PACKOUT_BOX	Pref	EVINSERT	EVINSERT	N/A	N/A	WEB INSTRUCTIONS FOR MAXIM DATA SHEET
5	3	PACKOUT_BOX	Pref	85-84003-006	85-84003-006	N/A	N/A	LABEL(EV KIT BOX) - PACKOUT
6	1	PACKOUT_BOX	Pref	88-00712-MDM	88-00712-MDM	N/A	N/A	BOX;+;MEDIUM BROWN 9 3/8" X 7 1/4" X 2 1/2
7	1	PACKOUT_BOX	Pref	87-02159-000	87-02159-000	N/A	N/A	ESD BAG;+;BAG; STATIC SHIELD 5X8;W/ESD LOGO
8	1	PACKOUT_BOX	Pref	88-00711-SML	88-00711-SML	N/A	N/A	BOX;SMALL BROWN 9 3/16X7X1 1/4 - PACKOUT
9	1	PACKOUT_BOX	Pref	87-02162-00	87-02162-00	N/A	N/A	ESD BAG;BAG;STATIC SHIELD ZIP 4inX6in;W/ESD LOGO - PACKOUT
TOTAL	15							