

TITLE: Bill of Materials
DATE: 11/14/2017
DESIGN: max77278_solderdown_reva

NOTE: DNI--> DO NOT INSTALL(PACKOUT) ; DNP--> DO NOT PROCURE

ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION	COMMENTS
1	VL, THM, AIN1, AIN7, TBIAS, LEDREM, VIL_LDO, VIL_SBB0-VIL_SBB2	-	10	5000	KEystone	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	
2	CS, NEN, SCL, SDA, AMUX, NIRQ, NRST, QSCL, QSDA, CS_EN, GPIO0-GPIO7, EN_EXT	-	19	5002	KEystone	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; WHITE; PHOSPHOR BRONZE WIRE SILVER;	
3	LDO, SBB0-SBB2, VSYS, BATTN, CHGIN, INLDO, VBATT, IN_SBB	-	10	5010	KEystone	N/A	TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE;	
4	C1, C11, C15	-	3	ANY	ANY	22UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 22UF; 10V; TOL=20%; MODEL=CL SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR	
5	C2	-	1	C1608XR1E475K080AC; GRM188R61E475KE11	TDK; MURATA	4.7UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7UF; 25V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
6	C3, C12, C34, C38, C110-C113, C115, C118, C120, C158, C239-C242	-	16	ANY	ANY	1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 6.3V; TOL=20%; MODEL=C SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R ; FORMFACTOR	
7	C4	-	1	C1005XR1H332K050	TDK	3300PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 3300PF; 50V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
8	C5, C6, C8, C9, C13, C17, C20, C36	-	8	ANY	ANY	10UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 10UF; 6.3V; TOL=20%; MODEL=; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR	
9	C7, C154	-	2	ANY	ANY	4.7UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 4.7UF; 10V; TOL=20%; MODEL=C SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR	
10	C10, C114	-	2	ANY	ANY	0.47UF	CAPACITOR; SMT; 0603; CERAMIC; 0.47uF; 10V; 10%; X5R; -55degC to +125degC; ; FORMFACTOR	
11	C14, C108, C150, C151, C155-C157, C159, C202, C207, C212, C217, C221-C224, C226, C229, C234-C237, C244	-	23	ANY	ANY	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R; FORMFACTOR	
12	C25, C27-C29	-	4	ANY	ANY	0.1UF	CAPACITOR; SMT; 0402; CERAMIC; 0.1uF; 10V; 10%; X5R; -55degC to +125degC; 0 +/-30PPM/degC; FORMFACTOR ;	
13	C30-C33	-	4	ANY	ANY	0.01UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R	
14	C35, C39	-	2	GRM155R60J104KA01; C0402C104K9PAC	MURATA; KEMET	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 6.3V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
15	C152, C153	-	2	GRM1555C1H150FA01	MURATA	15PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 15PF; 50V; TOL=1%; TG=-55 DEGC TO +125 DEGC; TC=COG	
16	C200, C205, C210, C215, C220, C238, C248-C252	-	11	C1005XR1H472K050	TDK	4700PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 4700PF; 50V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R	
17	C201, C206, C211, C216	-	4	ANY	ANY	1000PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1000PF; 50V; TOL=10%; MODEL=COG; TG=-55 DEGC TO +125 DEGC; TC=+; FORMFACTOR	
18	C203, C204, C208, C209, C213, C214, C218, C219	-	8	C0402C180J5GAC; GRM1555C1H180JA01; C1005COG1H180J050	KEMET/MURATA/TKD	18PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 18PF; 50V; TOL=5%; TG=-55 DEGC TO +125 DEGC; TC=COG	
19	C225	-	1	GRM1555C1H331GA01; C1005COG1H331G050	MURATA/TKD	330PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 330PF; 50V; TOL=2%; TG=-55 DEGC TO +125 DEGC; TC=COG	
20	C227	-	1	GRM1555C1H181GA01	MURATA	180PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 180PF; 50V; TOL=2%; TG=-55 DEGC TO +125 DEGC; TC=COG	
21	C228	-	1	ANY	ANY	1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 10V; TOL=10%; MODEL=; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR	
22	D100, D101	-	2	LTST-C190YKT	LITE-ON ELECTRONICS, INC.	LTST-C190YKT	DIODE; LED; STANDARD; YELLOW; SMT (0603); PIV=5.0V; IF=0.02A; -55 DEGC TO +85 DEGC	
23	D102, D103	-	2	LTST-C190CKT	LITE-ON ELECTRONICS, INC.	LTST-C190CKT	DIODE; LED; STANDARD; RED; SMT (0603); PIV=5.0V; IF=0.04A; -55 DEGC TO +85 DEGC	
24	DS1, DS2	-	2	Q65111A2364	OSRAM	Q65111A2364	DIODE; LED; OSLO BLACK 850NM; BLACK; SMT; VF=1.5V; IF=1A	
25	FB100	-	1	BLM18PG2215N1	MURATA	220	INDUCTOR; SMT (0603); FERRITE-BEAD; 220; TOL=+/-25%; 1.4A; -55 DEGC TO +125 DEGC	
26	GND1, GND5-GND7	-	4	5011	KEystone	N/A	TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	
27	GND2-GND4, GND8	-	4	9020 BUSS	WEICO WIRE	MAXIMPAD	EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL; SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S; 20AWG	
28	J1, J6	-	2	10103592-0001LF	FCI CONNECT	10103592-0001LF	CONNECTOR; FEMALE; SMT; MICRO USB B-TYPE REVERSE; RIGHT ANGLE; 5PINS	
29	J2	-	1	PBC08SAAN	SULLINS ELECTRONICS CORP.	PBC08SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC	
30	J3, J101	-	2	TSW-102-26-T-T	SAMTEC	TSW-102-26-T-T	CONNECTOR; THROUGH HOLE; TSW SERIES; TRIPLE ROW; STRAIGHT; 6PINS	
31	J4, J5, J200-J208	-	11	TSW-102-07-T-S	SAMTEC	TSW-102-07-T-S	CONNECTOR; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 2PINS; -55 DEGC TO +105 DEGC	
32	J7, J8	-	2	TSW-103-07-T-S	SAMTEC	TSW-103-07-T-S	CONNECTOR; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 3PINS	

33	J9	-	1	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
34	J100	-	1	PBC06SAAN	SULLINS ELECTRONICS CORP.	PBC06SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 6PINS; -65 DEGC TO +125 DEGC
35	L1	-	1	DFE201210U-1R5M=P2	TOKO	1.5UH	EVKIT PART-INDUCTOR; SMT (0805); METAL ALLOY CHIP; 1.5UH; TOL=+/-20%; 1.9A; 2.00MMX1.20MMX1.00MM
36	L3	-	1	CIGT201208EH2R2MN	SAMSUNG ELECTRONICS	2.2UH	EVKIT PART-INDUCTOR; SMT (0805); METAL COMPOSITE CORE; 2.2UH; TOL=+/-20%; 1.8A; 2.00MMX1.25MMX0.80MM
37	L4	-	1	CIGT201610EH2R2MN	SAMSUNG ELECTRONICS	2.2UH	EVKIT PART-INDUCTOR; SMT (0806); METAL COMPOSITE CORE; 2.2UH; TOL=+/-20%; 2.7A; 2.00MMX1.60MMX1.00MM
38	L5	-	1	DFE252007F-2R2M=P2	MURATA	2.2UH	EVKIT PART-INDUCTOR; SMT (1008); METAL ALLOY CHIP; 2.2UH; TOL=+/-20%; 1.7A; 2.50MMX2.00MMX0.70MM
39	Q1, Q100, Q101	-	3	FDY300NZ	FAIRCHILD SEMICONDUCTOR	FDY300NZ	TRAN; SINGLE N-CHANNEL 2.5V SPECIFIED POWERTRENCH MOSFET; NCH; SC89; PD-(0.625W); I-(0.6A); V-(20V)
40	Q200-Q203	-	4	IRFHM8337TRPBF	INTERNATIONAL RECTIFIER	IRFHM8337TRPBF	TRAN; HEXFET POWER MOSFET; NCH; PQFN8; PD-(2.8W); I-(1.8A); V-(30V)
41	Q204	-	1	DMG3420U	DIODES INCORPORATED	DMG3420U	TRAN; N-CHANNEL ENHANCEMENT MODE MOSFET; NCH; SOT-23; PD-(0.74W); I-(5.47A); V-(20V)
42	Q205	-	1	FDN360P	FAIRCHILD SEMICONDUCTOR	FDN360P	TRANSISTOR, MOSFET P-CHANNEL, SUPERSOT-3, PD=0.5W, ID=2.0A, VDS=-30V, VGS=+/-20V
43	Q206	-	1	2N7002	GENERIC PART	2N7002	TRAN; ; NCH; SOT-23; PD-(0.33W); IC-(0.5A); VCEO-(60V); -55 DEGC TO +150 DEGC
44	R1, R2, R13, R15, R281, R282, R287, R288	-	8	CRCW040210K0FK; RCO402FR-0710K	VISHAY DALE; YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM
45	R3, R5, R142, R277, R279	-	5	ANY	ANY	0	RESISTOR; 0603; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM; FORMFACTOR
46	R4, R122	-	2	ANY	ANY	1M	RESISTOR; 0603; 1M; 1%; 100PPM; 0.10W; THICK FILM; FORMFACTOR
47	R9	-	1	CRCW12060000ZS; ERJ-8GEY0R00V	VISHAY DALE/PANASONIC	0	RESISTOR; 1206; 0 OHM; 0%; JUMPER; 0.25W; THICK FILM
48	R10, R14, R293, R295, R297, R299	-	6	ERJ-2RKF4703X	PANASONIC	470K	RESISTOR, 0402, 470K OHM, 1%, 100PPM, 0.0625W, THICK FILM
49	R11, R17, R135, R136, R139, R141, R143, R148, R152, R155, R162-R164, R166, R204, R212, R225, R227, R238, R246, R251, R259, R285, R286, R302-R308	-	31	ANY	ANY	0	RESISTOR; 0402; 0 OHM; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
50	R12	-	1	3296Y-1-204LF	BOURNS	200K	RESISTOR; THROUGH HOLE-RADIAL LEAD; 3296 SERIES; 200K OHM; 10%; 100PPM; 0.5W
51	R100, R118	-	2	ANY	ANY	4.7K	RESISTOR, 0402, 4.7K OHM, 1%, 100PPM, 0.0625W, THICK FILM; FORMFACTOR
52	R103, R123, R150	-	3	ANY	ANY	22	RESISTOR, 0402, 22 OHM, 1%, 100PPM, 0.0625W, THICK FILM; FORMFACTOR
53	R107, R108	-	2	ANY	ANY	2.2K	RESISTOR, 0402, 2.2K OHM, 1%, 100PPM, 0.0625W, THICK FILM; FORMFACTOR
54	R23, R201, R222, R235, R248, R109, R111	-	7	ANY	ANY	100	RESISTOR; 0402; 100 OHM; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
55	R110	-	1	CRCW0402470RFX	VISHAY DALE	470	RESISTOR, 0402, 470 OHM, 1%, 100PPM, 0.0625W, THICK FILM
56	R6-R8, R16, R18-R22, R284, R115, R157, R159, R161, R214, R280, R283	-	17	ANY	ANY	100K	RESISTOR; 0402; 100K; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
57	R137, R138	-	2	ANY	ANY	49.9	RESISTOR; 0402; 49.9 OHM; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
58	R151	-	1	CRCW0402150RFX; 9C04021A1500FL	VISHAY DALE	150	RESISTOR; 0402; 150 OHM; 1%; 100PPM; 0.0625W; THICK FILM
59	R156	-	1	CRCW0402105KFK	VISHAY DALE	105K	RESISTOR; 0402; 105K OHM; 1%; 100PPM; 0.063W ; THICK FILM
60	R158	-	1	CRCW0402169KFK	VISHAY DALE	169K	RESISTOR; 0402; 169K OHM; 1%; 100PPM; 0.063W; THICK FILM
61	R160	-	1	CRCW04024752FK; 9C04021A4752FLHF3; CRCW040247K5FK	VISHAY DALE	47.5K	RESISTOR; 0402; 47.5K; 1%; 100PPM; 0.0625W; THICK FILM
62	R202, R223, R236, R249	-	4	CRCW0402680RFX; RCO402FR-07680RL	VISHAY DALE/YAGEO PHICOMP	680	RESISTOR, 0402, 680 OHM, 1%, 100PPM, 0.0625W, THICK FILM
63	R203, R224, R237, R250	-	4	CRCW040220K0FK	VISHAY DALE	20K	RESISTOR; 0402; 20K OHM; 1%; 100PPM; 0.063W; THICK FILM
64	R205, R206, R226, R228, R239, R240, R252, R253	-	8	CRCW04024991FK	VISHAY DALE	4.99K	RESISTOR; 0402; 4.99K; 1%; 100PPM; 0.0625W; THICK FILM
65	R210, R231, R244, R257, R301	-	5	CRCW04021M00FK	VISHAY DALE	1M	RESISTOR; 0402; 1M; 1%; 100PPM; 0.0625W; THICK FILM
66	R211, R233, R245, R258	-	4	ERI-3R0F1R0V	PANASONIC	1	RESISTOR, 0603, 1 OHM, 1%, 100PPM, 0.10W, THICK FILM
67	R261	-	1	CSR0603FKR100	STACKPOLE ELECTRONICS INC	0.1	RESISTOR; 0603; 0.1 OHM; 1%; 300PPM; 0.125W; THICK FILM
68	R262	-	1	CRCW060310R0FK; MCR03E2PFX10R0	VISHAY DALE/ROHM	10	RESISTOR; 0603; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
69	R265-R268	-	4	CRCW040264K9FK	VISHAY DALE	64.9K	RESISTOR; 0402; 64.9K OHM; 1%; 100PPM; 0.063W; METAL FILM
70	R207, R208, R229, R230, R242, R243, R254, R255, R263, R264, R269	-	11	CRCW04021K00FK; RCO402FR-071KL	VISHAYDALE;YAGEOPHICOMP	1K	RESISTOR;0402;1K;1%;100PPM;0.0625W;THICKFILM
71	R271-R274	-	4	CRCW040210M0FK	VISHAY DALE	10M	RESISTOR, 0402, 10M OHM, 1%, 100PPM, 0.0625W, THICK FILM
72	R294, R296, R298, R300	-	4	CRCW0402649KFK	VISHAY DALE	649K	RESISTOR; 0402; 649K OHM; 1%; 100PPM; 0.063W; THICK FILM
73	RT1	-	1	NCP15XH103F03RC	MURATA	10K	THERMISTOR; SMT (0402); THICK FILM (NICKEL PLATED); 10K; TOL=+/-1%
74	SW0-SW8	-	9	EVQ-Q2K03W	PANASONIC	EVQ-Q2K03W	SWITCH; SPST; SMT; 15V; 0.02A; LIGHT TOUCH SWITCH; RCOIL= OHM; RINSULATION= OHM; PANASONIC
75	SW9	-	1	CL-SB-12B-11	NIDEC COPAL ELECTRONICS CORP	CL-SB-12B-11	SWITCH; SPDT; SMT; 12V; 0.02A; CL-SB SERIES; SLIDE SWITCH; RCOIL=0.05 OHM; RINSULATION=100M OHM; NIDEC COPAL ELECTRONICS CORP

76	U1	-	1	MAX7278EWB+	MAXIM	MAX7278EWB+	EVKIT PART - IC; LOW POWER PMIC FOR WEARABLE AND HANDHELD DEVICES; PACKAGE OUTLINE: 21-100152; PACKAGE CODE: W352C3+1; WLP35
77	U100	-	1	MAXQ2000-RBX+	MAXIM	MAXQ2000-RBX+	IC; CTRL; LOW-POWER LCD MICROCONTROLLER; TQFN56-EP 8X8
78	U101	-	1	FT232RQ	FUTURE TECHNOLOGY DEVICES INTL LTD.	FT232RQ	IC; INFC; UART INTERFACE IC USB TO SERIAL; QFN32-EP 5X5
79	U102-U104	-	3	MAX8512EXK+	MAXIM	MAX8512EXK	IC, VREG; Ultra-Low-Noise, High PSRR, Adjustable Vout, SC70-5
80	U107	-	1	MAX3395EETC+	MAXIM	MAX3395EETC	IC; TRANS; 15KV ESD-PROTECTED HIGH-DRIVE CURRENT QUAD-LEVEL TRANSLATOR WITH SPEED-UP CIRCUITRY; TQFN12 4X4
81	U108	-	1	24AA02T-I/OT	MICROCHIP	24AA02T-I/OT	IC; EPROM; 2K I2C SERIAL EEPROM; SOT23-5
82	U200-U204	-	5	MAX44251AUA+	MAXIM	MAX44251AUA+	IC; OPAMP; ULTRA-PRECISION; LOW-NOISE OP AMP; UMAX8
83	U205	-	1	MAX5815AAUD+	MAXIM	MAX5815AAUD+	IC; DAC; ULTRA-SMALL; QUAD-CHANNEL; 12-BIT BUFFERED OUTPUT DAC WITH INTERNAL REFERENCE AND I2C INTERFACE; TSSOP14
84	U206	-	1	MAX14689EWL+	MAXIM	MAX14689EWL+	IC; ASW; 0.125A; FREQUENCY-SELECTSBLE; SWITCHED-CAPACITOR VOLTAGE CONVERTER; WLP9 1.2X1.2
85	U207	-	1	MAX4238AUT+	MAXIM	MAX4238AUT+	IC; OPAMP; IC; ULTRA-LOW OFFSET/DRIFT; LOW-NOISE; PRECISION SOT23 AMPLIFIER; SOT23-6
86	U209	-	1	MAX11614EEE+	MAXIM	MAX11614EEE+	IC; ADC; LOW-POWER; 8-CHANNEL; I2C; 12-BIT ADC IN ULTRA-SMALL PACKAGE; QSOP16
87	U210	-	1	MAX6037BAUK41+	MAXIM	MAX6037BAUK41+	IC; VREF; LOW-POWER; FIXED; ADJUSTABLE REFERENCE WITH SHUTDOWN; SOT23-5
88	Y101	-	1	CX3225S816000D0FLJZZ	KYOCERA-KINSEKI	16MHZ	CRYSTAL; SMT (3225) 3.2X2.5; 8PF; 16MHZ; +/-10PPM; +/-15PPM
89	PCB	-	1	MAX7278_SOLDERDOWN_REVA	MAXIM	PCB	PCB:MAX7278_SOLDERDOWN_REVA
90	L2	DNP	0	M1P1608VR47D	TDK	0.47UH	INDUCTOR; SMT (0603); SHIELDED; 0.47UH; TOL=+/-0.3nH; 0.8A
91	C16	DNP	0	N/A	N/A	OPEN	CAPACITOR; SMT (0603); OPEN; FORMFACTOR
92	C18, C19, C21-C24, C26, C37, C129, C134	DNP	0	N/A	N/A	OPEN	CAPACITOR; SMT (0402); OPEN; FORMFACTOR
93	R165, R213, R234, R247, R260	DNP	0	N/A	N/A	OPEN	RESISTOR; 0402; OPEN; FORMFACTOR
TOTAL			355				