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TIDA-050038 REV B2 Bill of Materials

SI No	Description	Mfg Part No	Mfg	Quantity	Part Reference
1	Res, Chip, 0E, 1/16W, 1.5A, AEC-Q200, 0402	CRCW0402000020ED	VISHAY	25	R100,R113,R134,R136,R690,R768,R769,R771,R773,R774,R775,R784,R789,R790,R791,R795,R796,R807,R808,R809,R810,R817,R819,R827,R829
2	Res, Chip, 29.4K, 1/16W, 1%, 0402	CRCW040229K4FK	VISHAY	1	R40
3	Res, Chip, 100K, 1/16W, 1%, 0402	WR04X1003FTL	WALSIN TECHNOLOGY CORP.	6	R31,R689,R735,R751,R794,R828
4	Res, Chip, 249K, 1/10W, 1%, AEC-Q200, 0402	RK73H1ETTP2493F	KOA SPEER ELECTRONICS, INC.	1	R762
5	Res, Chip, 1M, 1/10W, 1%, AEC-Q200, 0402	RK73H1ETTP1004F	KOA SPEER ELECTRONICS, INC.	2	R38,R761
6	Res, Chip, 10K, 1/16W, 5%, 0402	CRCW040210K0JNED	VISHAY	4	R37,R732,R776,R830
7	Res, Chip, 510K, 1/16W, 5%, 0402	CRCW0402510KJNED	VISHAY	1	R26
8	Res, Chip, 1K, 1/20W, 1%, 0201	WR02X1001FTL	WALSIN TECHNOLOGY CORP.	3	R125,R821,R822
9	Res, Chip, 0E, 1/20W, 1A, 0201	RC0201JR-070RL	YAGEO	1	R831
10	Res, Chip, 240E, 1/20W, 1%, 0201	WR02X2400F*L	WALSIN TECHNOLOGY CORP.	2	R5,R7
11	Res, Chip, 2.2K, 1/10W, 1%, AEC-Q200, 0402	RK73H1ETTP2201F	KOA SPEER ELECTRONICS, INC.	1	R68
12	Res, Chip, 8.2K, 1/10W, 1%, AEC-Q200, 0402	RK73H1ETTP8201F	KOA SPEER ELECTRONICS, INC.	1	R28
13	Res, Chip, 30K, 1/20W, 1%, 0201	RC0201F*.*30KL	YAGEO	2	R108,R109
14	Res, Chip, 200E, 1/20W, 1%, 0201	RC0201FR-07200RL	YAGEO	2	R29,R30
15	Res, Chip, 10K, 1/20W, 5%, 0201	CRCW020110K0JNEA	VISHAY	12	R4,R10,R11,R18,R23,R782,R811,R812,R813,R814,R815,R816
16	Res, Chip, 100K, 1/20W, 1%, 0201	CRCW0201100KFK**	VISHAY	6	R20,R21,R103,R135,R785,R786
17	Res, Chip, 4.7K, 1/20W, 5%, 0201	WR02X472 JTL	WALSIN TECHNOLOGY CORP.	8	R12,R13,R14,R15,R133,R777,R779,R780
18	Res, Chip, 150E, 1/16W, 1%, AEC-Q200, 0402	CRCW0402150RFKED	VISHAY	2	R8,R9
19	Res, I-Sense, 10mE, 1/4W, 1%, 0603	WVW06CR100FTL	WALSIN TECHNOLOGY CORP.	7	R718,R721,R722,R728,R729,R730,R766
20	Res, I-Sense, 10mE, 1/2W, 1%, AEC-Q200, 0805	CSR0805FT10L0	STACKPOLE ELECTRONICS INC	2	R763,R765
21	Cap, Cer-X5R, 4.7uF, 16V, 10%, 0603	GRM188R61C475KAAJD	MURATA MANUFACTURING CO,LTD	7	C50,C51,C52,C53,C54,C56,C58,C59
22	Cap, Cer-X5R, 2.2uF, 10V, 10%, 0402	GRM155R61A225KE95	MURATA MANUFACTURING CO,LTD	5	C2,C405,C596,C597,C598
23	Cap, Cer-X7R, 0.1uF, 16V, 10%, 0402	GRM155R71C104KA8BD	MURATA MANUFACTURING CO,LTD	17	C47,C145,C542,C550,C551,C552,C553,C566,C567,C579,C584,C587,C588,C594,C595,C601,C609
24	Cap, Cer-X7R, 0.01uF, 10V, 10%, 0201	GRM03R71A103KA01*	MURATA MANUFACTURING CO,LTD	2	C589,C602
25	Cap, Cer-X5R, 22uF, 10V, 20%, 0603	0603X226M100CT	WALSIN TECHNOLOGY CORP.	4	C403,C404,C580,C583
26	Cap, Cer-X5R, 10uF, 6.3V, 20%, 0402	GRM155R60106ME44*	MURATA MANUFACTURING CO,LTD	22	C20,C33,C55,C88,C89,C105,C106,C108,C109,C110,C
27	Cap, Cer-X5R, 10uF, 10V, 20%, 0402	GRM155R61A106ME11D	MURATA MANUFACTURING CO,LTD	5	C40,C41,C42,C44,C45
28	Cap, Cer-X5R, 2.2uF, 16V, 20%, 0402	EMK105A8J225MV-F	TAIYO YUDEN	2	C577,C578
29	Cap, Cer-NPO, 18pF, 50V, 5%, 0201	GRM0335C1H180JA01D	MURATA MANUFACTURING CO,LTD	1	C245
30	Cap, Cer-NPO, 12pF, 25V, 5%, 0201	GRM0335C1E120JA01*	MURATA MANUFACTURING CO,LTD	2	C123,C124
31	Cap, Cer-X5R, 4.7uF, 10V, 10%, 0402	C1005X5R1A475K050* C	TDK CORPORATION	7	C127,C234,C260,C600,C603,C604,C605
32	Cap, Cer-X5R, 0.47uF, 10V, 20%, 0201	LMK063BBJ474MPLF	TAIYO YUDEN	1	C590
33	Cap, Cer-X5R, 47uF, 10V, 20%, 0805	GRM21BR61A476ME15L	MURATA MANUFACTURING CO,LTD	1	C46
34	Cap, Cer-X7R, 1uF, 16V, 10%, 0402	0402X105K1605NW	CAPAX TECHNOLOGIES INC.	1	C586
35	Cap, Cer-X5R, 1uF, 6.3V, 20%, 0201	GRM033R60105ME42D	MURATA MANUFACTURING CO,LTD	27	C15,C16,C35,C36,C48,C54,C61,C65,C74,C78,C90,C91
36	Cap, Cer-X5R, 22uF, 6.3V, 20%, 0402	04026D226MAT2A	AVX CORPORATION	2	C570,C571
37	Cap, Cer-X7R, 1uF, 16V, 10%, AEC-Q200, 0603	GCM188R71C105KA64*	MURATA MANUFACTURING CO,LTD	2	C581,C582
38	Cap, Cer-X5R, 0.22uF, 10V, 20%, 0201	LMK063BJ224MMP-F	TAIYO YUDEN	43	C1,C3,C5,C6,C8,C9,C17,C21,C23,C30,C99,C100,C101,
39	Cap, Cer-X7R, 2200pF, 25V, 10%, 0201	GRM033R71E222KA12D	MURATA MANUFACTURING CO,LTD	1	C268
40	Cap, Cer-X5R, 10uF, 16V, 10%, 0603	GRM188R61C106KAALD	MURATA MANUFACTURING CO,LTD	4	C401,C402,C572,C575
41	Ind, Power, 10uH, +/-20%, 0.5A, 0.39E, Shielded, SMD0805	MLZ2011N100L***	TDK CORPORATION	2	L9,L10
42	Ind, Power, 1.5uH, 20%, 1.8A, 110mE, Shielded, SMD0806	DFE201610P-1R5M	MURATA MANUFACTURING CO,LTD	4	L5,L6,L7,L8
43	Ind, Chip, 2.2uH, 20%, 1.05A, 250mE, Shielded, 70MHz, SMD	LQW18PN2R2MGGH	MURATA MANUFACTURING CO,LTD	1	L15
44	Ind, Power, 0.47uH, 20%, 5.2A, 27mE, Shielded, AEC-Q200, SMD1008	DFE252012PD-R47M-P2	MURATA MANUFACTURING CO,LTD	2	L12,L13
45	Ind, RF, Chip, 1.4nH, +/-0.1nH, 0.65A, 120mE, Unshielded, 10GHz, SMD0201	HK060603W1N48-*	TAIYO YUDEN	1	L14
46	F-Bead, 120E, 1.3A, SMD0402	BLM15PD121S1N1B	MURATA MANUFACTURING CO,LTD	1	F81
47	Diode, Schottky, 0.1A, 30V, 0.125W, 0402	CDBQR0130L-HF	COMCHIP TECHNOLOGY	2	D2,D6
48	LED, Single, Green, 0603	598-8070-107F	DIALIGHT	2	D1,D5
49	LED, Single, Red, 0603	SML-LX0603IW-TR	LUMEX	1	D4
50	Transistor, BJT, NPN, 40V, 0.2A, SOT23-3	NMMBT3904	FAIRCHILD - ON SEMICONDUCTOR	1	Q4
51	Transistor, BJT, PNP, 60V, 0.8A, 0.35W, SOT23-3	NMMBT2907A	FAIRCHILD - ON SEMICONDUCTOR	1	Q3
52	Transistor, N-MOSFET, 30V, 0.4A, Vgs=8V, 0.35W, SOT23	NX3008NBK	NEXPERIA	2	Q1,Q2
53	XTAL, 24MHz, 9pF, +/-10ppm, 40E, 2.5x3.2mm, SMD	TSX-3225 24.0000MF15X-AC*	EPSON TOYOOCOM	1	X1
54	Conn, Coaxial, Receptacle, 50E, 6GHz, ST, SMD	U.FL-R-SMT-1	HRS (HIROSE ELECTRIC CO LTD)	1	J2
55	Conn, Berg strip, 2x5, 2.54mm, ST, SMD	TSM-105-01-T-DV	SAMTEC INC	1	H1
56	Conn, Berg strip, 1x2, 2.54mm, 3A, ST, SMD	54201-G0802LF	FCI - Amphenol ICC	1	H2
57	Conn, B2B, Receptacle, 2x10, 0.4mm, 0.3A, Shrouded, ST, SMD	DF40C-20DS-0.4V(51)	HRS (HIROSE ELECTRIC CO LTD)	1	J7
58	Conn, B2B, Plug, 2x50, 0.4mm, 0.3A, Shrouded, ST, SMD	DF40C-100DP-0.4V(51)	HRS (HIROSE ELECTRIC CO LTD)	1	J4
59	Conn, B2B, Receptacle, 2x50, 0.4mm, 0.3A, Shrouded, ST, SMD	DF40C-100DS-0.4V(51)	HRS (HIROSE ELECTRIC CO LTD)	1	J5
60	Switch, Tactile, SPST-NO, 12V, Vertical, SMD	B3U-1000P	OMRON CORP.	1	SW4
61	IC, TXS0102, 2-Bit Bidirectional Voltage-Level Translator, X2SON-8	TXS0102DQE	TEXAS INSTRUMENTS	1	U60
62	IC, Load switch, 1-5.5Vin, 3A, DS8GA-6	TPS22964CZP*	TEXAS INSTRUMENTS	1	U64
63	IC, INA3221, 3-Channel, High side Current/Voltage Monitor with I2C, VQFN-16	INA3221AIRGVR	TEXAS INSTRUMENTS	3	U50,U52,U5X
64	IC, Load Switch, 1.5-5.5Vin, 1.5A, DISO Channel, WLCSF-6	FPF1321JUC	ON SEMICONDUCTOR	1	U63
65	IC, uP, iMX8M, 1.8GHz ARM cortex-A53 Quad core, FCBGA-486	MMX8MM6GDVTLZAA	NXP SEMICONDUCTORS	1	U1
66	IC, LPDDR4 SDRAM, 2GB, x32bit, 1866MHz, WFBGA-200	MT53D512M32ZD2D5-053 WT-D	MICRON	1	U2
67	IC, NOR Flash, 32MB, 133MHz, SPI, 1.7-2V, W-PDFN-8	MT25QU256BA1E1W7-OSIT	MICRON	1	U5
68	IC, eMMC S.1, 16GB, x1/x4/x8bit, 200MHz, TF8GA-153	SDINBDG4-16G-I1	WESTERN DIGITAL TECHNOLOGIES, INC.	1	U4
69	IC, TPS65218D0, PMIC, 7 Outputs, 6-DC/DCs&1-LDOs, (Programmed version), VQFN-48	TPS65218D0RSLT	TEXAS INSTRUMENTS	1	U53
70	IC, P87347RHDR, PMIC, 4 Outputs, 2-DC/DCs&2-LDOs, VQFN-28	P87347RHDR	TEXAS INSTRUMENTS	1	U59
71	Osc, XO, 32.768KHz, +/-20ppm, 1.6-3.63V, CMOS, 15pF, SMD	ASAKMPD8-32.768KHZ-T3	ABRACON CORPORATION	2	Y1,Y2
72	Module, WiFi+BTv5.0, SDIO+UART+PCM, 802.11 a/b/g/n/ac, LGA-72	LBEE5HY1Mw	MURATA MANUFACTURING CO,LTD	1	M1
No-Mount (NM) Components					
1	Cap, Cer-X5R, 10uF, 10V, 10%, 0603	0603X106K100CT	WALSIN TECHNOLOGY CORP.	2	C523,C524
2	Cap, Cer-X5R, 4.7uF, 10V, 10%, 0402	C1005X5R1A475K050* C	TDK CORPORATION	2	C591,C592
3	Cap, Cer-X7R, 0.1uF, 16V, 10%, 0402	GRM155R71C104KA8BD	MURATA MANUFACTURING CO,LTD	1	C593
4	Cap, Cer-X5R, 2.2uF, 10V, 10%, 0402	GRM155R61A225KE95	MURATA MANUFACTURING CO,LTD	2	C599,C610
5	F-Bead, 120E, 1.3A, SMD0402	BLM15PD121S1N1B	MURATA MANUFACTURING CO,LTD	1	F83
6	Res, Chip, 240E, 1/20W, 1%, 0201	WR02X2400F*L	WALSIN TECHNOLOGY CORP.	1	R6
7	Res, Chip, 4.7K, 1/20W, 5%, 0201	WR02X472 JTL	WALSIN TECHNOLOGY CORP.	2	R16,R17
8	Res, Chip, 10K, 1/16W, 5%, 0402	CRCW040210K0JNED	VISHAY	8	R47,R71,R72,R75,R76,R79,R95,R97
9	Res, Chip, 100K, 1/20W, 1%, 0201	CRCW0201100KFK**	VISHAY	2	R102,R787
10	Res, Chip, 0E, 1/16W, 1.5A, AEC-Q200, 0402	CRCW0402000020ED	VISHAY	13	R116,R752,R772,R781,R783,R788,R792,R793,R804,
11	Res, Chip, 10K, 1/20W, 5%, 0201	CRCW020110K0JNEA	VISHAY	9	R117,R118,R119,R120,R121,R122,R123,R124,R824
12	Res, Chip, 100K, 1/16W, 1%, 0402	WR04X1003FTL	WALSIN TECHNOLOGY CORP.	1	R687
13	IC, LDO, 1.45-5.5Vin, 2.5Vout/0.5A, X2SON-4	TLV75525PQDNR	TEXAS INSTRUMENTS	1	U49
14	IC, LDO, 0.75-3.3Vin, 0.8Vout/0.3A, WSON-6	TPS7A1008PDSET	TEXAS INSTRUMENTS	1	U61

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