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TID #: TIDA-01237

## TIDA-01237 REV E2 Bill of Materials



M #	D!	0	Na Fass	Dthlh	Manufacture	Description.	DID-f
Item #	Designator !PCB1	Quantity 1	n Name Erro	PartNumber TIDA-01237	Manufacturer Any	Description Printed Circuit Board	PackageReference
2	C1	1		C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
3	C2	1		EMVE500ADA470MF80G	Chemi-Con	CAP, AL, 47 μF, 50 V, +/- 20%, SMD	F80
4	C3	1		C3225X7R1H106M250AC	TDK	CAP, CERM, 10 µF, 50 V, +/- 20%, X7R, 1210	1210
5	C4	1		C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 μF, 50 V, +/- 5%, X7R, 0603	0603
6	C5, C7, C10,	24		C0603C153J3GACTU	Kemet	CAP, CERM, 0.015 µF, 25 V, +/- 5%, C0G/NP0, 0603	0603
0	C3, C7, C16, C11, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34	24		C0003C13333GAC10	Nerited	CAF, CERW, 0.013 pr, 25 V, 47- 376, COGNEO, 0003	0003
7	C6, C9	2		0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
8	C8	1		06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
9	C12, C13	2		C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
10	C14	1		C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
11	D1	1		B0540WS-7	Diodes Inc.	Diode, Schottky, 40 V, 0.5 A, SOD-323	SOD-323
12	D2, D3, D4, D18, D19, D20, D21	7		150060VS75000	Wurth Elektronik	LED, Green, SMD	LED_0603
13	D5	1		SDMK0340L-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.03 A, SOD-323	SOD-323
14	D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17	12		BAS40TW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, AEC-Q101, SOT-363	SOT-363
15	H1, H2	2		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
16	J1	1		282856-2	TE Connectivity	Therminal Block, 5 mm, 2-pole, Tin, TH	TH, 2-Leads, Body 10x10mm, Pitch 5mm
17	J2, J3	2		SSW-110-01-T-S	Samtec	Receptacle, 2.54mm, 10x1, Tin, TH	Receptacle, 2.54mm, 10x1, TH
18	J4, J5, J6	3		90120-0122	Molex	Header, 100mil, 2x1, Tin, TH	Header 2x1
19	J7	1		PPPC042LFBN-RC	Sullins Connector Solutions	Connector, Receptacle, 100mil, 4x2, Gold plated, TH	4x2 Header Receptacle
20	J8	1		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
21	J9	1		800-10-005-10-001000	Mill-Max	Header, 100mil, 5x1, TH	Header, 5x1, 100mil, TH
22	J10	1		76308-204LF	FCI	Receptacle, 100mil, 4x1, Gold, TH	4x1 Receptacle
23	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
24	Q1	1		BC857C-7-F	Diodes Inc.	Transistor, PNP, 45 V, 0.1 A, SOT-23	SOT-23
25	Q2	1		2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
26 27	R1 R2, R6, R7, R10, R12, R13, R15	7		5106 CRCW060310K0JNEA	Keystone Vishay-Dale	RES, 0, 1%, 0.5 W, 0805 RES, 10 k, 5%, 0.1 W, 0603	0805 0603
28	R3	1		ERJ-2RKF49R9X	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
29	R4	1		CRCW040268R0JNED	Vishay-Dale	RES, 68, 5%, 0.063 W, 0402	0402
30	R5	1		CRCW0402604RFKED	Vishay-Dale Vishay-Dale	RES, 604, 1%, 0.063 W, 0402	0402
31	R8, R9, R11, R14, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27	16		CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
32	R28, R33	2		CRCW0603909RFKEA	Vishay-Dale	RES, 909, 1%, 0.1 W, 0603	0603
33	R29, R34	2		CRCW0603604RFKEA	Vishay-Dale	RES, 604, 1%, 0.1 W, 0603	0603
34	R30	1		CRCW0603392RFKEA	Vishay-Dale	RES, 392, 1%, 0.1 W, 0603	0603
35	R31	1		CRCW0603511RFKEA	Vishay-Dale	RES, 511, 1%, 0.1 W, 0603	0603
36	R32	1		CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
37	R35	1		CRCW0603309RFKEA	Vishay-Dale	RES, 309, 1%, 0.1 W, 0603	0603
38	R36	1		CRCW06031K21FKEA	Vishay-Dale	RES, 1.21 k, 1%, 0.1 W, 0603	0603
39	R37	1		CRCW06035K36FKEA	Vishay-Dale	RES, 5.36 k, 1%, 0.1 W, 0603	0603
40	R38	1		CRCW06034K64FKEA	Vishay-Dale	RES, 4.64 k, 1%, 0.1 W, 0603	0603
41	R39	1		CRCW06031K96FKEA	Vishay-Dale	RES, 1.96 k, 1%, 0.1 W, 0603	0603
42	R40, R41	2		RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603 Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	0603 SW, SPST 6x6 mm
		20					
43	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35,	38		4-1437565-1	TE Connectivity		GT, GT GROTHIN
	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38						
44 45	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35,	38 1 1		TPS7B6733QPWPRQ1 TIC12400DCPQ1	Texas Instruments Texas Instruments	450-mA High-Voltage Ultra-Low IQ Low-Dropout Regulator, PWP0020D Multiple Switch Detection Interface (MSDI) device, DCP0038A	PWP0020D DCP0038A

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