Variant: 001
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TID #: TIDA-01330

TIDA-01330 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB?	1		TIDA-01330	Any	Printed Circuit Board	
2	C1, C12, C19	3	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C3	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
4	C4, C5	2	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
5	C6, C7, C8, C11	4	330uF	EEE-FT1H331AP	Panasonic	CAP, AL, 330 µF, 50 V, +/- 20%, 0.3 ohm, SMD	SMT Radial G
6	C9, C10	2	0.01uF	C1608X7R1H103K080AA	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	0603
7	C13, C15	2	0.047uF	C0603C473K1RACTU	Kemet	CAP, CERM, 0.047uF, 100V, +/-10%, X7R, 0603	0603
8	C14, C16, C18, C26	4	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
9	C17	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, 1206	1206
10	C20, C21, C25	3	1000pF	GRM188R71C102KA01D	MuRata	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	0603
11	C22, C23, C24	3	2200pF	GRM188R71C222KA01D	MuRata	CAP, CERM, 2200pF, 16V, +/-10%, X7R, 0603	0603
12	C27	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
13	D1	1	90V	CD0603-S0180	Bourns	Diode, Switching, 90V, 0.1A, 0603 Diode	0603 Diode
14	D2	1	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	Red 0805 LED
15	D3	1	Green	LTST-C170KGKT	Lite-On	LED, Green, SMD	LED_0805
16	D4	1	30V	BAT54CDW-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-363	SOT-363
17	J1	1		282834-2	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	Terminal Block, 2x1, 2.54mm, TH
18	J2	1		691 101 710 002	Wurth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
19	J3, J4	2		SSW-110-01-T-S	Samtec	Receptacle, 2.54mm, 10x1, Tin, TH	Receptacle, 2.54mm, 10x1, TH
20	J5	1		1729160	Phoenix Contact	Terminal Block, 6x1, 5.08mm, Th	Terminal Block, 6x1, 5.08mm, TH
21	L1	1	2.2uH	XAL1010-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 32 A, 0.00255 ohm, SMD	Inductor, 11.3x10x10mm
22	Q1, Q5	2	0.7V	BC846BLT1G	ON Semiconductor	Transistor, NPN, 65V, 0.1A, SOT-23	SOT-23
23	Q2, Q4, Q6, Q7, Q8, Q9	6	40V	SQJ858AEP	Vishay-Siliconix	MOSFET, N-CH, 40 V, 58 A, PowerPAK_SO-8L	PowerPAK_SO-8L
24	Q3	1	40V	SQJ422EP-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 75 A, PowerPAK_SO-8L	PowerPAK_SO-8L
25	R1, R2, R11, R12	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
26	R3	1	330	CRCW1206330RJNEA	Vishay-Dale	RES, 330, 5%, 0.25 W, 1206	1206
27	R4	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
28	R5	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, 0402	0402
29	R6, R9, R17	3	0.015	CRA2512-FZ-R015ELF	Bourns	RES, 0.015, 1%, 3 W, 2512	2512
30	R7, R14, R15, R16	4	56	CRCW040256R0JNED	Vishay-Dale	RES, 56, 5%, 0.063 W, 0402	0402
31	R8	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
32	R10, R13	2	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, 0402	0402
33	S1, S2, S3	3		7105J3V3QE2	C&K Components	Switch, SPDT, Mom-Off-Mom, 3 Pos, 5 A, 28 VDC, TH	15.75x8.13mm
34	TP1	1	Red	5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
35	TP2, TP3	2	Black	5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
36	U1	1		DRV83053EPHPRQ1	Texas Instruments	Three Phase Automotive Gate Driver with Three Integrated Current Shunt Amplifiers and Voltage Regulator, PHP0048G	PHP0048G
37	U2	1		SN74AHC1G00DCKR	Texas Instruments	SINGLE 2-INPUT POSITIVE-NAND GATE, DCK0005A (SOT-5)	DCK0005A
38	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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