

TIDA-01534 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TDA-01534	Any	Printed Circuit Board	
2	C2	1	1000uF	EEUFRT1V102B	Panasonic	CAP. AL. 1000 uF, 35 V, +/- 20%, 0.018 ohm, TH	D12.5x120mm
3	C3, C129	2	0.01uF	CGA2B33V0R1H100K0508B	TDK	CAP. CERM. 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
4	C4, C12, C13, C18, C21, C27	6	0.1uF	C100X20R1H04K0508B	TDK	CAP. CERM. 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
5	C5, C6, C9, C10, C14, C16, C17, C18, C19, C20, C21, C22, C124, C125, C201, C203, C206, C207	16	10uF	UMJ25K87106KMH1	Taiyo Yuden	CAP. CERM. 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
6	C7, C8	2	2.2uF	C6800C22M5PACTRU	Kemet	CAP. CERM. 2.2 uF, 10 V, +/- 20%, X5R, 0603	0603
7	C11	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP. CERM. 0.47uF, 100V, +/-10%, X7R, 0805	0805
8	C14, C15	2	470pF	98051C471KA12A	AVX	CAP. CERM. 470 pF, 100 V, +/- 10%, X7R, 0805	0805
9	C16, C17	2	470uF	61PF470MAH	Panasonic	CAP. Tantalum Polymer, 470 uF, 6.3 V, +/- 20%, 0.01 ohm, 7343-40	7343-40
10	C19, C20	2	100uF	GRM030C80J107ME20L	MuRata	CAP. CERM. 100 uF, 6.3 V, +/- 20%, X5S, 1210	1210
11	C22, C23	2	330pF	CG42C33K9GAC	Kemet	CAP. CERM. 33 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
12	C24, C25, C110, C114, C116, C127	6	100pF	GRM1555C1H10J1A01D	MuRata	CAP. CERM. 100 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
13	C28, C28	2	0.068uF	C100X58R1H68K0508B	TDK	CAP. CERM. 0.068 uF, 50 V, +/- 10%, X7R, 0402	0402
14	C29, C30	2	2200pF	GCM158R1H222KA37D	MuRata	CAP. CERM. 2200 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
15	C100, C117, C128	3	220uF	PCR1V221MCL1G5	Nichicon	CAP. Aluminum Polymer, 220 uF, 35 V, +/- 20%, 0.021 ohm, 6x12mm SMD	6x12mm
16	C103, C120	2	470pF	GCM1885C1H471JA16D	MuRata	CAP. CERM. 470 pF, 50 V, +/- 5%, COG/NPO, AEC-Q200 Grade 1, 0603	0603
17	C108, C123	2	4.7uF	GRM21BR71C476KA78L	MuRata	CAP. CERM. 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
18	C109, C126	2	0.1uF	GCM158R1H104KE02D	MuRata	CAP. CERM. 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
19	C111, C130	2	2.2uF	CGA5L33V0R1H22K160AB	TDK	CAP. CERM. 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
20	C112	1	2200pF	CGA2B22V0R1H22K0508BA	TDK	CAP. CERM. 2200 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
21	C113	1	0.068uF	C100X58R1H68K0508BA	TDK	CAP. CERM. 68 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
22	C115, R106, R110, R121, R122	5	0	CRCW040200020ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
23	D1, D2	2	60V	PMEG6010CEJ115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-323F	SOD-323F
24	D100, D102	2	80V	PMEG6010CEH115	NXP Semiconductor	Diode, Schottky, 80 V, 1 A, SOD-123F	SOD-123F
25	D301	1	300V	BA1541G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
26	HT, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumper, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumper
27	J1, J2	2		575-8	Keystone	Standard Banana Jack, Uninsulated, 6.9mm	Keystone675-8
28	J3, J4	2		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
29	J5	1		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
30	J8	1		1040	Keystone	TEST POINT SLOTTED, 118', TH	Test point, TH Slot
31	J7	1		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
32	J200, J202, J204, J20	4		S-14627B-3	TE Connectivity	Header, 100mil, 3x1, Tin, TH	Header, 3x1, 100mil, TH
33	J201, J203, J205, J207	4		93357-0002	Molex	Terminal Block, 3.5 mm, 2x1, Tin, TH	Terminal Block, 3.5 mm, 2x1, TH
34	L1, L2	2	3.3uH	HLPS2320DER3R3M01	Vishay-Dale	Inductor, Shielded, Powdered Iron, 3.3 uH, 9.2 A, 0.0177 ohm, SMD	32x158x32mm
35	L301, L31	2	1.5uH	HLPS2320DER1R5M01	Vishay-Dale	Inductor, Shielded, Powdered Iron, 1.5 uH, 15 A, 0.0058 ohm, SMD	14x49x20mm
36	LBL1	1		TH1-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650" x 0.200"
37	Q1, Q3, Q4, Q5, Q6, Q100, Q101, Q102, Q103, Q104, Q105	11	60V	CS1853405A	Texas Instruments	MOSFET, N-CH, 60 V, 50 A, DQ30008A (V50SNP-8)	DQ30008A
38	R2	1	0.47	CSR2512FKR470	Stackpole Electronics Inc	RES, 0.47, 1%, 2 W, 2512	2512
39	R3, R8, R9, R16, R18, R19	6	0	RC0603LR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
40	R6, R7, R12, R13, R20, R21	6	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, 0603	0603
41	R10, R11	2	0.065	PR11532-8685-F-T1	Suisanmu Co Ltd	RES, 0.065, 1%, 1 W, 0812	0812
42	R14, R56, R104, R122	4	100k	CRCW0402100KFKE	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
43	R16, R17	2	49.9	CRCW0603499KFKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
44	R19	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0605	0605
45	R22, R23, R100, R118	4	3.3	CRCW12063R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.25 W, 1206	1206
46	R24, R25	2	10.0k	RNCF040210K0K	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
47	R26	1	105	CRCW0402105KFKE	Vishay-Dale	RES, 105, 1%, 0.063 W, 0402	0402
48	R27, R34, R37, R117	4	10.0k	CRCW040210K0KHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
49	R28, R102	2	51	CRCW040251K0KHEDP	Vishay-Dale	RES, 51, 5%, 0.063 W, 0402	0402
50	R29	1	21.5k	CRCW040221K5KHEDP	Vishay-Dale	RES, 21.5 k, 1%, 0.063 W, 0402	0402
51	R30	1	0	RC0603LR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1 W, 0603	0603
52	R31	1	15.0k	CRCW040215K0KHEDP	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, 0402	0402
53	R32	1	13.0k	CRCW040213K0KHEDP	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, 0402	0402
54	R33	1	31.8k	CRCW040231K8KHEDP	Vishay-Dale	RES, 31.8 k, 1%, 0.063 W, 0402	0402
55	R101, R119	2	0.003	KR4242E-M-RODOP-F-T1	Suisanmu Co Ltd	RES, 0.003, 1%, 3 W, AEC-Q200 Grade 0, 2512 WIDE	2512 WIDE
56	R103, R107, R120, R124	4	3.3	CRCW04023R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.063 W, 0402	0402
57	R108, R109, R125, R126	4	100	CRCW0402100KFKE	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
58	R111	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
59	R112	1	90.9k	CRCW040290.9KFKE	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, 0402	0402
60	R113, R116, R129	3	49.9k	CRCW040249.9KFKE	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
61	R114	1	27.4k	CRCW060327.4KFKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
62	R115	1	22.6k	CRCW040222.6KFKE	Vishay-Dale	RES, 22.6 k, 1%, 0.063 W, 0402	0402
63	R123	1	1.0	CRM1206-JW-1R0ELF	Bourns	RES, 1.0, 5%, 0.5 W, 1206	1206
64	R203, R201, R204, R206, R207, R209, R210	8	10.0k	CRCW040210K0KHEDP	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
65	R202, R205, R208, R211	4	619	RC0603FR-07619RL	Yageo America	RES, 619, 1%, 0.1 W, 0603	0603
66	TP1, TP6	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
67	TP3, TP18, TP19	3	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
68	TP4, TP5, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17	10		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
69	TP6, TP9	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
70	TP100, TP101, TP102, TP105	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
71	TP103, TP104	2		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
72	TP200, TP203, TP206, TP209	4		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
73	TP201, TP202, TP204, TP205, TP207, TP208, TP210, TP211	8		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
74	U1, U102	2		LM74700QDBV01	Texas Instruments	Low Iq Always ON Smart Diode Controller, DBV0008A (SOT-23-6)	DBV0008A
75	U2	1		LM5140QRWGRQ1	Texas Instruments	Wide Input Range Dual Synchronous Buck Controller, RWG0040A	RWG0040A
76	U100, U101	2		LM2572QPWPT01	Texas Instruments	Automotive Grade, 3-AE2 Wide Vin, Synchronous Boost Controller with Multiphase Capability, PWP0020A (TSSOP-20)	PWP0020A
77	U200, U201, U202, U203	4		TPS1H100AQPWPRQ1	Texas Instruments	40V/100mOhm Single Channel Smart High Side Switch, PWP0014F (TSSOP-14)	PWP0014F
78	C200, C202, C204, C206	0	100uF	UMJ25K87106KMH1	Taiyo Yuden	CAP. CERM. 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
79	D3, D103	0	12V	BZT52C121-TP	Micro Commercial Components	Diode, Zener, 12 V, 200 mW, SOD-523	SOD-523
80	O2	0	-40V	FDWS3506L_F085	Fairchild Semiconductor	MOSFET, P-CH, -40 V, 46 A, PowerPAK SO-8	PowerPAK SO-8
81	Q107	0	-40V	FDWS3506L_F085	Fairchild Semiconductor	MOSFET, P-CH, -40 V, 46 A, PowerPAK SO-8	PowerPAK SO-8
82	R4, R130	0	499k	CRCW0402499KFKE	Vishay-Dale	RES, 499 k, 1%, 0.063 W, 0402	0402
83	R5, R131	0	100k	CRCW0402100KFKE	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
84	R36	0	0	RC0603LR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1 W, 0603	0603
85	R38	0	9.76Meg	CRCW06039M76KFA	Vishay-Dale	RES, 9.76 M, 1%, 0.1 W, 0603	0603
86	R105, R123	0	9.76Meg	CRCW04029M76KFA	Vishay-Dale	RES, 9.76 M, 1%, 0.063 W, 0402	0402

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