

TIDA-01638 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C9	2	0.47uF	TMK212BJ474KD-T	Taiyo Yuden	CAP, CERM, 0.47 uF, 20 V, +/- 10%, X5R, 0805	0805
2	C2, C3, C10, C11, C13, C17, C21	7	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
3	C4	1	47uF	C2012X5R1A476M125AC	TDK	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	0805
4	C5, C6	2	100uF	UHE1H101MPD	Nichicon	CAP, AL, 100 uF, 50 V, +/- 20%, 0.17 ohm, TH	8.0x10.5mm
5	C7	1	220uF	UHE1V221MPD6	Nichicon	CAP, AL, 220 uF, 35 V, +/- 20%, TH	D10xL12.5mm
6	C8	1	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
7	C12, C14, C16, C18, C20, C22	6	1uF	EMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
8	C15, C19, C23	3	0.01uF	GRM033R70J103KA01D	MuRata	CAP, CERM, 0.01 uF, 6.3 V, +/- 10%, X7R, 0201	0201
9	D1, D2, D3	3	20V	SMBJ20A-13-F	Diodes Inc.	Diode, TVS, Uni, 20 V, 32.4 Vc, SMB	SMB
10	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
13	J1, J7, J10, J14	4		OSTTA024163	On-Shore Technology	Terminal Block, 2x1, 5.08mm, TH	2x1 Terminal Block
14	J2, J3, J4, J6, J8, J11, J15	7		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
15	J5, J12, J13, J16, J17	5		SSW-102-01-T-S	Samtec	Receptacle, 2x1, 2.54mm, Tin, TH	Receptacle, 2x1, 2.54mm, TH
16	JP1, JP2, JP3, JP4	4		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
17	L1	1	2.2uH	SRP4020TA-2R2M	Bourns	Inductor, Shielded, 2.2 uH, 4 A, 0.061 ohm, AEC-Q200 Grade 0, SMD	4.45x1.8x4.06mm
18	R1, R2	2	57.6k	RT0805BRD0757K6L	Yageo America	RES, 57.6 k, 0.1%, 0.125 W, 0805	0805
19	R3	1	12.0k	RG2012P-123-B-T5	Susumu Co Ltd	RES, 12.0 k, 0.1%, 0.125 W, 0805	0805
20	R4	1	5.00k	PNM0805E5001BST5	Vishay Thin Film	RES, 5.00 k, 0.1%, 0.2 W, 0805	0805
21	R5	1	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300, 5%, 0.1 W, 0603	0603
22	R6	1	3.24k	RG1608P-3241-B-T5	Susumu Co Ltd	RES, 3.24 k, 0.1%, 0.1 W, 0603	0603
23	R7	1	1.0Meg	HVC2512T1004JET	Ohmite	RES, 1.0 M, 5%, 1 W, 2512	2512
24	R8	1	10.5k	CRCW080510K5FKEA	Vishay-Dale	RES, 10.5 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
25	R9	1	33.2k	CRCW040233K2FKED	Vishay-Dale	RES, 33.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26	R10	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R11	1	51.1k	RT0603DRE0751K1L	Yageo America	RES, 51.1 k, 0.5%, 0.1 W, 0603	0603
28	R12	1	21.5k	RR0816P-2152-D-33C	Susumu Co Ltd	RES, 21.5 k, .5%, .0625 W, 0603	0603
29	R13	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R14, R16, R18	3	487	CRCW0603487RFKEA	Vishay-Dale	RES, 487, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	R15, R17	2	10.0Meg	CRCW080510M0FKEA	Vishay-Dale	RES, 10.0 M, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
32	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5, SH-J6, SH-J7	7	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
33	TIDA-1	1		TIDA-01638	Any	Printed Circuit Board	
34	TP1, TP2, TP5, TP6, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16	13		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
35	TP3, TP4, TP7, TP17, TP18, TP19, TP20	7		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
36	U1	1		TPS2121RUXR	Texas Instruments	2.7V-22V, 4A, 50mohm Priority Power MUX, RUX0012A (VQFN-HR-12)	RUX0012A
37	U2	1		TPS564201DDCR	Texas Instruments	4.5V to 17V Input, 4A Output, Synchronous Step-Down Converter, DDC0006A (SOT-23-T-6)	DDC0006A
38	U3	1		TPS259525DSGR	Texas Instruments	12V eFuse with Over Voltage Protection, DSG0008A (WSON-8)	DSG0008A
39	U4	1		REF3325AIRSER	Texas Instruments	30ppm/C Drift, 3.9uA, SOT23-3, SC70-3, UQFN-8 Voltage Reference, RSE0008A (UQFN-8)	RSE0008A
40	U5, U6	2		TPS259541DSGR	Texas Instruments	12V eFuse with Over Voltage Protection, DSG0008A (WSON-8)	DSG0008A
41	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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