

TIDA-00887 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-xxxx	Any	Printed Circuit Board	
2	C1	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
3	C2, C3	2	4.7uF	GRM32ER71H475KA88L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1210	1210
4	C4	1	0.22uF	GRM21BR71H224KA01L	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0805	0805
5	C5	1	1uF	GRM21BR71E105KA99L	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
6	C6, C7	2	47uF	GRM32ER61C476ME15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 20%, X5R, 1210	1210
7	C8, C35, C39	3	10uF	C2012X7R0J106M125AB	TDK	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X7R, 0805	0805
8	C9	1	0.022uF	GRM155R71C223KA01D	MuRata	CAP, CERM, 0.022 uF, 16 V, +/- 10%, X7R, 0402	0402
9	C10, C11, C14, C18	4	10uF	0805YD106MAT2A	AVX	CAP, CERM, 10 uF, 16 V, +/- 20%, X5R, 0805	0805
10	C12	1	0.56uF	12063C564KAT2A	AVX	CAP, CERM, 0.56 uF, 25 V, +/- 10%, X7R, 1206	1206
11	C13, C19	2	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
12	C15	1	1uF	GRM155R70J105MA12D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 20%, X7R, 0402	0402
13	C16, C17	2	20pF	GRM1555C1H200JA01D	MuRata	CAP, CERM, 20 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
14	C20, C21, C24, C26, C29, C30, C31, C32	8	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
15	C22, C23, C25, C27, C33, C34	6	0.1uF	TMK105B7104MV-FR	Taiyo Yuden	CAP, CERM, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
16	C28, C37	2	100uF	C1210C107M8PACTU	Würth Elektronik	CAP, CERM, 100 uF, 10 V, +/- 20%, X5R, 1210	1210
17	C36, C38	2	1uF	GCM31CR72A105KA03	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206_190	1206_190
18	D1	1	60V	PDS560-13	Diodes Inc.	Diode, Schottky, 60 V, 5 A, PowerDI5	PowerDI5
19	D2	1	Green	LTST-C171GKT	Lite-On	LED, Green, SMD	LED_0805
20	J1, J3	2		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
21	J2	1		67068-8000	Molex	Connector, Receptacle, USB TYPE B, R/A, Top Mount TH	USB Type B Receptacle
22	J4, J7	2		292303-4	TE Connectivity	Connector, Receptacle, USB Type A, R/A, Top Mount TH	USB Type A right angle
23	J5, J6, J8, J9	4		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
24	L1	1	5.5uH	744325550	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Superflux, 5.5 uH, 10 A, 0.0112 ohm, SMD	WE-HC6
25	L2, L3, L4, L5	4	10nH	LQG15HS10NJ02D	MuRata	Inductor, Multilayer, Air Core, 10nH, 0.3A, 0.26 ohm, SMD	0402 polarized
26	R1	1	100k	CRCW0402100KDHPD	Vishay-Dale	RES, 100 k, 0.5%, 0.063 W, 0402	0402
27	R2	1	255	CRCW0402255RFKED	Vishay-Dale	RES, 255, 1%, 0.063 W, 0402	0402
28	R3	1	17.8k	CRCW040217K8FKED	Vishay-Dale	RES, 17.8 k, 1%, 0.063 W, 0402	0402
29	R4	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
30	R5	1	1.87k	CRCW04021K87FKED	Vishay-Dale	RES, 1.87 k, 1%, 0.063 W, 0402	0402
31	R6, R7	2	30.1	CRCW040230R1FKED	Vishay-Dale	RES, 30.1, 1%, 0.063 W, 0402	0402
32	R8	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
33	R9	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
34	R10	1	9.53k	CRCW04029K53FKED	Vishay-Dale	RES, 9.53 k, 1%, 0.063 W, 0402	0402
35	R11	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
36	R12, R14, R16	3	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
37	R13, R19	2	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, 0603	0603
38	R15, R20	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
39	R17	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, 0402	0402
40	R18	1	10.0k	CRCW040210K0DHDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
41	T1, T2	2		mcf12102g900	Taiyo Yuden	SMT Common Mode Choke	
42	TP1, TP3	2	Orange	5008	Keystone	Test Point, Compact, Orange, TH	Orange Compact Testpoint
43	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
44	U1	1		LMR14050SQDDARQ1	Texas Instruments	SIMPLE SWITCHER 40 V 5 A, 2.2 MHz Step-Down Converter with 40 uA IQ, DDA0008E	DDA0008E
45	U2	1		TPD2E2U06QDBZRQ1	Texas Instruments	Dual-Channel High-Speed ESD Protection Device, DBZ0003A	DBZ0003A
46	U3	1		TPS74801RGWR	Texas Instruments	Single Output LDO, 1.5 A, Adjustable 0.8 to 3.6 V Output, 0.8 to 5.5 V Input, with Programmable Soft Start, 20-pin VQFN (RGW), -40 to 125 degC, Green (RoHS & no Sb/Br)	RGW0020A
47	U4	1		TPS7A4533DCQR	Texas Instruments	Single Output Fast Transient Response LDO, 1.5 A, Fixed 3.3 V Output, 2.1 to 20 V Input, 6-pin SOT-223 (DCQ), -40 to 125 degC, Green (RoHS & no Sb/Br)	DCQ0006A
48	U5	1		TUSB4020BIPHP	Texas Instruments	400 Mbps IEEE 1394a One-Port Cable Transceiver / Arbiter, 3.3V, 0 to 70 degC, 48-Pin HTQFP (PHP), Green (RoHS & no Sb/Br)	PHP0048C
49	U6, U8	2		TPD3S716QDBQRQ1	Texas Instruments	AUTOMOTIVE USB 2.0 Interface Protection with Short-to-Battery, Short-to-Ground Protection, and Adjustable Current Limit, DBQ0016A	DBQ0016A
50	Y1	1		445C25D24M00000	CTS Freq Controls	Crystal, 24.000MHz, 20pF, SMD	Crystal, XTAL_2_SM_197X126
51	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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