

Variant: 001  
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TIDA-01635 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C101	1	150uF	T495D157K010ATE100	Kemet	CAP, TA, 150 uF, 10 V, +/- 10%, 0.1 ohm, SMD	7343-31
2	C102	1	22uF	GRM31CR61C226KE15L	MuRata	CAP, CERM, 22 uF, 16 V, +/- 10%, X5R, 1206	1206
3	C103, C105, C108, C401, C404	5	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402
4	C104, C205, C206, C207, C301, C303, C304, C305	8	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X5R, 0603	0603
5	C106	1	47pF	GRM1555C1H470FA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, COG/NP0, 0402	0402
6	C107	1	4700pF	GRM155R61H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X5R, 0402	0402
7	C109	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C110, C111, C112, C405, C406	5	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
9	C201, C202, C203, C204	4	2.2uF	C3225X5R1H225K250AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 1210	1210
10	C302	1	2.2uF	GRM188R61C225KAAD	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0603	0603
11	C402, C403	2	10uF	885012208069	Würth Elektronik	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
12	D201	1	60V	RB160M-60TR	Rohm	Diode, Schottky, 60 V, 1 A, SOD-123	SOD-123
13	J1, J2, J4	3		108-0902-001	Cinch Connectivity	Banana Jack Insul Nylon Red, TH	Banana Jack Insul Nylon Red, TH
14	J3	1		108-0903-001	Cinch Connectivity	Banana Jack Insul Nylon Black, TH	Banana Jack Insul Nylon Black, TH
15	J10, J13, J14, J17, J20, J24, J28, J30, J31	9		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
16	J15	1		PBC08DAAN	Sullins Connector Solutions	Header, 100mil, 8x2, Gold, TH	PBC08DAAN
17	J16, J21, J23, J25, J26, J27	6		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
18	J18	1		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
19	J29	1		PEC06SAAN	Sullins Connector Solutions	Header, 100mil, 6x1, Tin, TH	TH, 6-Leads, Body 608x100mil, Pitch 100mil
20	L101	1	1.8uH	CDMC8D28NP-1R8MC	Sumida	Inductor, Shielded Drum Core, Metal Composite, 1.8 uH, 9.3 A, 0.0126 ohm, SMD	9.5x8.7mm
21	L201	1	10uH	CMLE051E-100MS	Cyntec	Inductor, Metal Composite, 10 uH, 1.9 A, 0.17 ohm, SMD	5.4x1.3x5.2mm
22	L301	1	4.7uH	HMLQ25201T-4R7MSR-11	Cyntec	Inductor, 4.7 uH, 1.2 A, 0.225 ohm, SMD	SMD, 2-Leads, Body 2.5x2mm
23	L401	1	3.3uH	CMLE051E-3R3MS	Cyntec	Inductor, Metal Composite, 3.3 uH, 3.1 A, 0.072 ohm, SMD	5.4x1.3x5.2mm
24	R101	1	17.4k	CRCW040217K4FKED	Vishay-Dale	RES, 17.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R102	1	127k	CRCW0402127KFKED	Vishay-Dale	RES, 127 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26	R103	1	301k	CRCW0402301KFKED	Vishay-Dale	RES, 301 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R104	1	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R105	1	332k	CRCW0402332KFKED	Vishay-Dale	RES, 332 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R106	1	107k	CRCW0402107KFKED	Vishay-Dale	RES, 107 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R107, R205, R404	3	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402
31	R201	1	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
32	R202, R203	2	4.70k	RC0402FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.0625 W, 0402	0402
33	R204	1	24.3k	CRCW040224K3FKED	Vishay-Dale	RES, 24.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R206	1	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	0402
35	R401, R403	2	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
36	R402	1	54.9k	CRCW040254K9FKED	Vishay-Dale	RES, 54.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	TP1, TP2, TP3, TP4, TP7, TP8	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
38	U101	1		TPS61089RNR	Texas Instruments	12.6-V, 7-A Fully-Integrated Synchronous Boost Converters in 2.0-mm x 2.5-mm VQFN Package, RNR0011A (VQFN-HR-11)	RNR0011A
39	U201	1		LP8556SQ-E08/NOPB	Texas Instruments	6 Channel High-Efficiency/Efficacy LED Backlight Driver, RTW0024A (WQFN-24)	RTW0024A
40	U301	1		TPS65132WRVCR	Texas Instruments	Split-Rail Converter Dual Output (Bipolar) SIMO Regulator for General Dual Supply Applications, RVC0020A (WQFN-20)	RVC0020A
41	U401	1		TPS563201DDCR	Texas Instruments	4.5V to 17V Input, 3A Output, Synchronous Step-Down Converter, DDC0006A (SOT-23-T-6)	DDC0006A
42	FID1, FID2	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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