

Variant: 001  
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TIDA-050033 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	0603
2	C2, C5	2	10uF	CC1206KKX5R8BB106	Yageo	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 1206	1206
3	C3	1	7000000uF	ZNP2R7S705RS1025	Chengdu OK New Energy Technology	CAP, AL, 7000000 uF, 2.7 V, +50/-20%, 0.06 ohm, SMD	Dia 10mm
4	C4	1	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C6	1	1uF	GRM185R60J105KE26D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 10%, X5R, 0603	0603
6	C7	1	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
7	C8	1	2.2uF	C1608X5R1V225K080AC	TDK	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
8	C9	1	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
9	C10	1	22uF	GRM21BD70J226ME44L	MuRata	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X7T, 0805	0805
10	D1, D2	2	40V	SK24AE	Good-Ark Semiconductor	Diode, Schottky, 40 V, 2 A, AEC-Q101, SMA	SMA
11	L1	1	4.7uH	SWPA5040S4R7NT	Sunlord	Inductor, Wirewound, Mn-Zn, 4.7 uH, 3 A, 0.039 ohm, SMD	Power Inductor
12	L2	1	10uH	SWPA5040S100MT	Sunlord	Inductor, Wirewound, Mn-Zn, 10 uH, 2.1 A, 0.083 ohm, SMD	Power Inductor
13	Q1	1	-20V	CSD25310Q2	Texas Instruments	MOSFET, P-CH, -20 V, -20 A, DQK0006C (WSON-6)	DQK0006C
14	Q2	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
15	R1	1	10.0	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, 1206	1206
16	R2	1	200	CRCW0402200RFKED	Vishay-Dale	RES, 200, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
17	R3	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
18	R4, R7	2	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
19	R5	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
20	R6	1	1.40Meg	CRCW04021M40FKED	Vishay-Dale	RES, 1.40 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
21	R8	1	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
22	R9, R10	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
23	R11	1	51.1k	CRCW040251K1FKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R12	1	22.1k	CRCW040222K1FKED	Vishay-Dale	RES, 22.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	U1	1		TLV61048DBVR	Texas Instruments	15-V Output Voltage Non-Sync Boost Converter, DBV0006A (SOT-23-6)	DBV0006A
26	U2	1		TL431CDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
27	U3	1		TPS560430XDBVR	Texas Instruments	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	DBV0006A

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