

Variant: 001
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 TID #: TIDA-00971



TIDA-00971 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-00971	Any	Printed Circuit Board	
2	C1	1	2.2uF	C1206C225K5RACAUTO7210	KEMET	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
3	C3, C4	2	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022 uF, 25 V, +/- 10%, X7R, 0603	0603
4	C5	1	1uF	08055C105K4Z2A	AVX	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
5	C6	1	10uF	GRT188C81C106ME13D	MuRata	CAP, CERM, 10 uF, 16 V, +/- 20%, X6S, AEC-Q200 Grade 2, 0603	0603
6	C7	1	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
7	C_IN	1	150uF	EEE-FK1H151P	Panasonic	CAP, AL, 150 uF, 50 V, +/- 20%, 0.18 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
8	D1	1	40V	ZLLS400QTA	Diodes Inc.	Diode, Schottky, 40 V, 0.52 A, AEC-Q101, SOD-323	SOD-323
9	D2, D3	2	400V	MSE1PGHM3/89A	Vishay-Semiconductor	Diode, Standard Recovery Rectifier, 400 V, 1 A, AEC-Q101, MicroSMP	MicroSMP
10	D_GND	1	200V	BAS21HMFHT116	Rohm	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOT-23	SOT-23
11	GND1, GND2, GND3	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
12	J1, J2	2		TSW-110-07-G-S	Samtec	Header, 100mil, 10x1, Gold, TH	10x1 Header
13	J3	1		22-27-2031	Molex	CONN HEADER 3POS .100 VERT TIN	7.62x11.7x5.8 mm
14	J4	1		571-0500	DEM Manufacturing	Standard Banana Jack, insulated, 10A, red	571-0500
15	J5	1		571-0100	DEM Manufacturing	Standard Banana Jack, insulated, 10A, black	571-0100
16	J_GND	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
17	R1, R2, R3, R6	4	15k	CRCW040215K0JNED	Vishay-Dale	RES, 15 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
18	R7, R8	2	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
19	R10	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
20	Rlim1	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
21	Rlim2	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
22	Rsns	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
23	R_GND	1	4.7k	RC0603JR-074K7L	Yageo	RES, 4.7 k, 5%, 0.1 W, 0603	0603
24	U1	1		TPS2HB50BQPWPQRQ1	Texas Instruments	40-V, 50-mOhm Dual-Channel Smart High-Side Switch, TPS2HB50-Q1 (TSSOP-16)	TPS2HB50-Q1
25	U2	1		TPS7B8233QDGNRQ1	Texas Instruments	300mA High-Voltage Ultra-Low-Iq Low-Dropout (LDO) Regulator, DGN0008D (VSSOP-8)	DGN0008D
26	R4, R5	0	15k	CRCW040215K0JNED	Vishay-Dale	RES, 15 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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