

Variant: 001
Generated: 11/23/2015 10:04:10 AM
TID #: TIDA-00872

TIDA-00872 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-00872	Any	Printed Circuit Board	
2	C1	1	100uF	ECA-2AM101	Panasonic Electronic Components	CAP ALUM 100UF 100V 20% RADIAL	Radial, Can
3	C2	1	0.01uF	C1608X7R2A103K	TDK	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	0603
4	C3	1	0.01uF	885012205031	Würth Elektronik	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
5	C4	1	1uF	C3216X7R2A105M160AA	TDK	CAP, CERM, 1 µF, 100 V, +/- 20%, X7R, 1206	1206
6	C5	1	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
7	C6	1	1200pF	C1206C122K5RACTU	Kemet	CAP, CERM, 1200 pF, 50 V, +/- 10%, X7R, 1206	1206
8	C7	1	4.7uF	885012107013	Würth Elektronik	CAP, CERM, 4.7 µF, 16 V, +/- 20%, X5R, 0805	0805
9	C8	1	0.47uF	885012207049	Würth Elektronik	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0805_140	0805_140
10	C9	1	1uF	HMK316B7105KL-T	Taiyo Yuden	CAP CER 1UF 100V 10% X7R 1206	1206
11	C10	1	0.1uF	885012206071	Würth Elektronik	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
12	C11	1	1uF	885012206052	Würth Elektronik	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
13	C12	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
14	C13	1	1000pF	885012206034	Würth Elektronik	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	0603
15	C14	1	1uF	885012207103	Würth Elektronik	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805_140	0805_140
16	D1	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
17	D6, D7	2	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
18	J1, J2	2		61301011821	Würth Elektronik	Receptacle, 2.54mm, 10x1, Gold, TH	Receptacle, 2.54mm, 10x1, TH
19	J3	1		61300611121	Würth Elektronik	Header, 2.54 mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
20	J4	1		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
21	L1	1	470uH	744043471	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 470 µH, 0.125 A, 2.128 ohm, SMD	WE-TPC-M2
22	Q1, Q2, Q5, Q6, Q7, Q8, Q11, Q12	8	30V	CSD17483F4T	Texas Instruments	MOSFET, N/P-CH, 30 V, 1.5 A, 1.0x0.35x0.6mm	1.0x0.35x0.6mm
23	Q3, Q4, Q9, Q10	4	100V	CSD19534Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 10 A, SON 5x6mm	SON 5x6mm
24	R1	1	100k	3386P-1-104LF	Bourns	TRIMMER, 100k ohm, 0.5W, TH	375x190x375mil
25	R2	1	274k	CRCW0402274KFKED	Vishay-Dale	RES, 274 k, 1%, 0.063 W, 0402	0402
26	R3	1	2.20k	ERJ-2RKF2201X	Panasonic	RES, 2.20 k, 1%, 0.1 W, 0402	0402
27	R4	1	154k	CRCW0402154KFKED	Vishay-Dale	RES, 154 k, 1%, 0.063 W, 0402	0402
28	R5	1	576	CRCW0402576RFKED	Vishay-Dale	RES, 576, 1%, 0.063 W, 0402	0402
29	R6	1	0.68	ERJ-2BQFR68X	Panasonic	RES, 0.68, 1%, 0.125 W, 0402	0402
30	R7, R8, R13, R14	4	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
31	R9	1	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3k ohm, 5%, 0.1W, 0603	0603
32	R10, R15	2	0.05	CRA2512-FZ-R050ELF	Bourns	RES, 0.05 ohm, 1%, 3W, 2512	2512
33	R11, R12	2	330	CRCW0603330RJNEA	Vishay-Dale	RES, 330 ohm, 5%, 0.1W, 0603	0603
34	R16, R17, R18, R19	4	100	CRCW0805100RFEKA	Vishay-Dale	RES, 100, 1%, 0.125 W, 0805	0805
35	U1	1		LM5009MM/NOPB	Texas Instruments	150 mA, 100V Step-Down Switching Regulator, 8-pin MSOP, Pb-Free	MUA08A
36	U2	1		DRV8711DCPR	Texas Instruments	STEPPER MOTOR CONTROLLER IC, DCP0038A	DCP0038A
37	D2, D5, D8, D11	0	60V	RB050L-60TE25	Rohm	Diode, Schottky, 60 V, 3 A, SMA	SMA
38	D3, D4, D9, D10	0	60V	SMBJ60A-13-F	Diodes Inc.	Diode, TVS, Uni, 60 V, 600 W, SMB	SMB
39	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial