

Filename: TIDA-010004E3(001)_TI-BOM.xls
 Variant: 001
 Generated: 4/6/2019 10:47:52 PM
 TID #: 010004



TIDA-010004 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-010004	Any	Printed Circuit Board	
2	C1, C2	2	1uF	C1206C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 1206	1206
3	C3, C14	2	10uF	GRM188R60J106ME84D	MuRata	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	0603
4	C4	1	47uF	860020472006	Würth Electronics Inc.	CAP ALUM 47UF 20% 25V RADIAL	D5xL11.5mm
5	C5, C6	2	1000pF	GRM155R61C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X5R, 0402	0402
6	C7, C9	2	22uF	CL31X226KAHN3NE	Samsung Electro-Mechanics	CAP CER 22UF 25V X6S 1206	1206
7	C8, C10, C12, C13	4	0.1uF	CC0402ZRY5V8BB104	TDK	CAP CER 0.1UF 25V Y5V 0402	0402
8	C11	1	33uF	C3216X5R1E336M160AC	TDK	CAP, CERM, 33 uF, 25 V, +/- 20%, X5R, 1206	1206
9	C15, C19	2	0.1uF	C0603X104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	0603
10	C16	1	0.47uF	885012206024	Würth Electronics Inc.	CAP CER 0.47UF 10V X7R 0603	0603
11	C17	1	2200pF	885012205027	Würth Elektronik	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0402	0402
12	C18	1	10uF	JMK316AB7106KLHT	Taiyo Yuden	CAP, CERM, 10 uF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
13	D1, D2, D4, D5, D6	5	RED	150060RS75000	Würth Elektronik Inc	LED RED CLEAR 0603 SMD	LED_0603
14	J1, J3, J4, J5, J6	5		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
15	J2, J8	2		61300411121	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
16	J7, J9	2		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
17	R1, R2	2	464k	CRCW0402464KFKED	Vishay-Dale	RES, 464 k, 1%, 0.063 W, 0402	0402
18	R3, R4, R24, R25, R26	5	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
19	R5, R6, R9, R10	4	49.9k	ERJ-2RKF4992X	Panasonic	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
20	R7, R8	2	825	CRCW0402825RFKED	Vishay-Dale	RES, 825, 1%, 0.063 W, 0402	0402
21	R11, R17	2	0.3	ERJ-8BQFR30V	Stackpole Electronics Inc	RES 0.3 OHM 1% 1/2W 1206	1206
22	R12, R18	2	0.51	CRM1206-FX-R510ELF	Bourns	RES, 0.51, 1%, 0.5 W, 1206	1206
23	R15, R16, R33, R36, R37	5	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
24	R19	1	0.1	CR2512-JI-000ELF	Bourns	RES SMD 0 OHM JUMPER 1W 2512	2512
25	R20, R27, R28, R29, R30, R32	6	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
26	R21	1	1.00Meg	ERJ-2GEJ105X	Panasonic	RES SMD 1M OHM 5% 1/10W 0402	0402
27	R22	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
28	R23, R40, R41	3	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
29	S1	1		434121025816	Würth Elektronik	Switch, Tactile, SPST, 12 V, SMD	SMD, 6x3.9mm
30	TP1, TP2, TP3, TP4, TP5, TP6	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
31	U1, U2	2		TPS259631DDAR	Texas Instruments	2.7- 19V, 0.15-2A, 80mΩ eFuse with accurate current limiting, DDA0008E (HSOIC-8)	DDA0008E
32	U3, U4	2		DRV8847SPWT	Texas Instruments	Dual H-Bridge Motor Driver, PW0016A (TSSOP-16)	PW0016A
33	U5	1		DRV8847PWPR	Texas Instruments	Dual H-Bridge Motor Driver, PWP0016C (TSSOP-16)	PWP0016C
34	U6	1		MSP430FR5739IDAR	Texas Instruments	24 MHz Mixed Signal Microcontroller, 1024 B SRAM and 33 GPIOs, -40 to 85 degC, 38-pin SOP (DA), Green (RoHS & no Sb/Br)	DA0038A
35	U7	1		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
36	U8	1		TPD1E10B06DPYR	Texas Instruments	Single-Channel ESD in 0402 Package With 10pF Capacitance and 6V Breakdown, DPY0002A (X1SON-2)	DPY0002A
37	R13, R14, R31, R34, R35, R38, R39	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402

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