

Variant: 001
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 TID #: TIDA-010073

TIDA-010073 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-010073	Any	Printed Circuit Board	
2	C1	1	100uF	UBT1H101MPD1TD	Nichicon	CAP, AL, 100 uF, 50 V, +/- 20%, TH	Cap, 10x12.5mm
3	C2	1	0.1uF	C0603X104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V,+/- 10%, X7R, 0603	0603
4	C3, C6, C7, C9	4	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
5	C4	1	2.2uF	CGA3E1X7S1C225M080AC	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X7S, AEC-Q200 Grade 1, 0603	0603
6	C5	1	0.022uF	885012206091	Würth Elektronik	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
7	C8	1	1uF	885012206026	Würth Elektronik	CAP, CERM, 1 uF, 10 V,+/- 10%, X7R, 0603	0603
8	C10	1	470pF	C0603C471K5RACTU	Kemet	CAP, CERM, 470 pF, 50 V,+/- 10%, X7R, 0603	0603
9	D1, D2, D3, D4, D5, D6	6	Green	LTST-C191K6GT	Lite-On	LED, Green, SMD	LED_0603
10	J1, J2, J3, J4, J5, J7, J8, J9, J10, J11, J12	11				Socket	
11	J6	1		PBC07SFAN	Sullins Connector Solutions	Header, 2.54 mm, Gold, 7x1, TH	Header, 2.54 mm, 7x1, TH
12	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
13	P1	1				Header, 4-Pin	
14	R1, R2	2	330	RC0603JR-07330RL	Yageo	RES, 330, 5%, 0.1 W, 0603	0603
15	R3	1	1.0k	RC0603JR-071KL	Yageo	RES, 1.0 k, 5%, 0.1 W, 0603	0603
16	R4, R5, R7, R8	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
17	R6	1	47k	RC0603JR-0747KL	Yageo	RES, 47 k, 5%, 0.1 W, 0603	0603
18	R10	1	2.2k	RC0603JR-072K2L	Yageo America	RES, 2.2 k, 5%, 0.1 W, 0603	0603
19	S1, S2, S3	3		ESE-20C341	Panasonic	Switch, Push, SPST-NO, 0.1A, 14V	7.8x12.5x7.9mm
20	U1	1		MSP430FR2111IPW16R	Texas Instruments	16 MHz Ultra-Low-Power Microcontroller With 4 KB FRAM, 1 KB SRAM, 12 IO, 8 ch ADC10, PW0016A (TSSOP-16)	PW0016A
21	U2	1		DRV8876PWPR	Texas Instruments	H-Bridge Motor Drivers With Integrated Current Sense and Regulation, PWP0016J (TSSOP-16)	PWP0016J
22	U3	1		TPS70933DBVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DBV0005A (SOT-23-5)	DBV0005A

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