

## TIDA-00736 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-00736	Any	Printed Circuit Board	
C1	1	22uF	UBT2A220MPD1TD	Nichicon	CAP, AL, 22 $\mu$ F, 100 V, +/- 20%, 0.8 ohm, TH	Cap, 10x12.5mm
C2, C5, C15, C17	4	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1 $\mu$ F, 100 V, +/- 10%, X7R, 0805	0805
C3	1	0.01uF	08051C103JAT2A	AVX	CAP, CERM, 0.01 $\mu$ F, 100 V, +/- 5%, X7R, 0805	0805
C4	1	330uF	EKYB630ELL331MJ25S	Chemi-Con	CAP, AL, 330 $\mu$ F, 63 V, +/- 20%, 0.045 ohm, TH	D10xL25mm
C6	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C7	1	0.1uF	C0603X104K4RACTU	Kemet	CAP, CERM, 0.1 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C8, C13, C14	3	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1 $\mu$ F, 16 V, +/- 10%, X5R, 0603	0603
C9, C30	2	1000pF	885012206034	Würth Elektronik	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	0603
C10, C11, C12, C31, C32, C33, C34, C35, C36, C37, C38	11	0.1uF	CGA3E2X8R1E104K080AA	TDK	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X8R, AEC-Q200 Grade 0, 0603	0603
C16	1	100uF	860040875005	Würth Elektronik	CAP, AL, 100 $\mu$ F, 100 V, +/- 20%, 0.2 ohm, TH	D10xL25mm
D1, D2	2	Red	LTST-C191KRKT	Lite-On	LED, Red, SMD	LED_0603
D3	1	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED_0603
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J3, P1, P2	3		800-10-004-10-001000	Mill-Max	Header, 100mil, 4x1, TH	Header, 4x1, 100mil, TH
P3, PWO	2	6P CON 5.08	ED2832-ND	On Shore Technology Inc	TERM BLOCK HDR 6POS R/A 5.08MM	
P11	1		800-10-005-10-001000	Mill-Max	Header, 100mil, 5x1, TH	Header, 5x1, 100mil, TH
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	60V	CSD18531Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 19 A, SON 5x6mm	SON 5x6mm
R2, R3, R5, R49	4	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
R10, R11, R20	3	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
R12, R17, R19	3	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, 0603	0603
R13	1	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.1 W, 0603	0603
R14, R15	2	0.04	CRA2512-FZ-R040ELF	Bourns	RES, 0.04, 1%, 3 W, 2512	2512
R16, R18	2	4.7k	CR0603-JW-472GLF	Bourns	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R30, R40	2	47k	CRCW060347K0JNEA	Vishay-Dale	RES, 47 k, 5%, 0.1 W, 0603	0603
R31	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
R50	1	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
S1	1		76SB08ST	Grayhill	Switch, SPST 8Pos, Rocker, TH	9.65X8X22.4mm
U1	1		DRV8711DCP	Texas Instruments	Pre Driver Stepper Motor Controller	
U2	1		MSP430G2202IPW20	Texas Instruments	16 MHz Mixed Signal Microcontroller with 2 KB Flash, 256 B SRAM and 16 GPIOs, 20-pin SOP (PW), Green (RoHS & no Sb/Br)	PW0020A
U3	1		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U4	1		6N137S(TA)	Everlight	HIGH SPEED 10MBit/s LOGIC GATE PHOTOCOUPLER, SMT	SMD-8
U5, U6	2		PC817X4NSZ0F	Sharp Microelectronics	Optocoupler, 5 kV, 300-600% CTR, TH-4	DIP-4

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