

TIDA-01007 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-01007	Any	Printed Circuit Board	
C1	1	2.2uF	0805YD225KAT2A	AVX	CAP, CERM, 2.2 μ F, 16 V, +/- 10%, X5R, 0805	0805
C2	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0805	0805
C3	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	0603
C4, C5, C6	3	0.01uF	CL10B103KB8NCNC	Samsung Electro-Mechanics	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, 0603	0603
C7	1	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C8	1	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 μ F, 16 V, +/- 5%, X7R, 0603	0603
C9, C10, C11, C12, C14, C15, C16, C17	8	0.01uF	C0603C103K5RACTU	Kemet	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, 0603	0603
C13, C18	2	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
D1, D2	2	0.45V	B340LB-13-F	Diodes Inc.	Diode, Schottky, 40V, 3A, SMB	SMB
D3	1	75V	1N4148WT	Fairchild Semiconductor	Diode, Switching, 75 V, 0.3 A, SMD, 2-Leads, Body 1.2x0.8mm	SMD, 2-Leads, Body 1.2x0.8mm
D5, D6, D7, D8, D11, D12, D15, D16, D17, D18, D19, D20, D23, D24, D27, D28	16	Amber	LA E63F-EBGA-24-1-Z	OSRAM	LED, Amber, SMD	Power TOPLED w/lens
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J2	2		691214310002	Würth Elektronik	Terminal Block, 2x1, 3.81mm, 24-16 AWG, 10A, 300VAC, TH	2x1 Terminal Block
Q1	1	60V	2N7002KW	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 0.31 A, SOT-323	SOT-323
R1, R2, R12, R13, R14, R15, R16, R17, R18, R19	10	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R3, R4, R8, R_SET_1, R_SET_2	5	10k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R5	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R6, R7, R9	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R10, R11	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
U1	1		TPS7A6650QDGNRQ1	Texas Instruments	High-Voltage Ultralow-Iq Low-Dropout Regulator, DGN0008D	DGN0008D
U2	1		SN74LV164ADGVR	Texas Instruments	8-BIT PARALLEL-OUT SERIAL SHIFT REGISTERS, DGV0014A	DGV0014A
U3	1		TLC555QDRQ1	Texas Instruments	LinCMOS Timer, D0008A	D0008A
U4, U5	2		TPS92638QPWPRQ1	Texas Instruments	Eight-Channel Linear LED Driver with PWM Dimming, PWP0020D	PWP0020D

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