

TIDA-010041 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-010041	Any	Printed Circuit Board	
2	C1, C2, C9, C13, C17, C20, C23	7	1uF	C3225X7R1H105K160AA	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1210	1210
3	C3, C5, C7, C8, C10, C15, C18, C21, C24	9	0.1uF	08053C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0805	0805
4	C4, C6, C11, C12, C14, C16, C19, C22, C25	9	0.01uF	08055C103JAT2A	AVX	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0805	0805
5	D1, D4	2	20V	PMEG2010AEH,115	Nexperia	Diode, Schottky, 20 V, 1 A, SOD-123F	SOD-123F
6	D2, D3, D6, D7	4	100V	ES1B-13-F	Diodes Inc.	Diode, Superfast Rectifier, 100 V, 1 A, SMA	SMA
7	D5, D8, D10	3	3.6V	MMSZ5227BS-7-F	Diodes Inc.	Diode, Zener, 3.6 V, 200 mW, SOD-323	SOD-323
8	D9, D11, D12, D13	4	Green	LNJ337W83RA	Panasonic	LED, Green, SMD	1.6x0.8mm
9	H1, H2, H3, H4	4		NSP-4-3-01	Essentra Components	MACHINE SCREW PAN PHILLIPS 4-40	Machine Screw, 4-40, 1/4"
10	H5, H6, H7, H8	4		1902E	Keystone	Standoff, Hex, 1"L #4-40 Nylon	Standoff
11	J1, J3, J8, J11, J12, J13, J17, J19, J21, J22, J24, J25	12		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
12	J2, J6, J15, J16, J20	5		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
13	J4, J5, J7, J9, J10, J14, J18, J23	8		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
14	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
15	R1	1	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
16	R2	1	10.0k	MCU08050C1002FP500	Vishay/Beyschlag	RES, 10.0 k, 1%, 0.2 W, 0805	0805
17	R3, R4	2	100k	MCU08050C1003FP500	Vishay/Beyschlag	RES, 100 k, 1%, 0.2 W, 0805	0805
18	R5, R6, R15	3	10.0k	PLTT0805Z1002QGT5	Vishay-Dale	RES, 10.0 k, 0.02%, 0.25 W, 0805	0805
19	R7	1	160	RG2012P-161-B-T5	Susumu Co Ltd	RES, 160, 0.1%, 0.125 W, 0805	0805
20	R8	1	49.9	ERJ-6ENF49R9V	Panasonic	RES, 49.9, 1%, 0.125 W, 0805	0805
21	R9	1	40.2	CRCW080540R2FKEA	Vishay-Dale	RES, 40.2, 1%, 0.125 W, 0805	0805
22	R10	1	150	RG2012P-151-B-T5	Susumu Co Ltd	RES, 150, 0.1%, 0.125 W, 0805	0805
23	R11	1	5.1k	CRCW08055K10JNEA	Vishay-Dale	RES, 5.1 k, 5%, 0.125 W, 0805	0805
24	R12, R13, R14	3	1.00k	RG2012P-102-B-T5	Susumu Co Ltd	RES, 1.00 k, 0.1%, 0.125 W, 0805	0805
25	R16	1	100	ERJ-3EKF1000V	Panasonic	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R17	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
27	R18, R19, R20, R21, R22, R23, R24	7	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
28	R25	1	3.30k	RG1608P-332-B-T5	Susumu Co Ltd	RES, 3.30 k, 0.1%, 0.1 W, 0603	0603
29	R26, R27	2	3.0k	CRCW06033K00JNEA	Vishay-Dale	RES, 3.0 k, 5%, 0.1 W, 0603	0603
30	S1	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
31	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22	22		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
32	U1, U2, U8, U10, U11	5		TPS3840PL28DBVR	Texas Instruments	Nano Power, Wide VIN Voltage Detector with Programmable Delay, DBV0005A (SOT-23-5)	DBV0005A
33	U3	1		OPA320SAIDBVR	Texas Instruments	Precision, 20MHz, 0.9pA Ib, RRIO, CMOS Operational Amplifier, DBV0006A (SOT-23-6)	DBV0006A
34	U4	1		TPS3840DL27DBVR	Texas Instruments	Nano Power, Wide VIN Voltage Detector with Programmable Delay, DBV0005A (SOT-23-5)	DBV0005A
35	U5	1		TPS3431SDRBR	Texas Instruments	Stand Alone Watchdog with programmable timeout period, DRB0008A (VSON-8)	DRB0008A
36	U6	1		TPS3840PH30DBVR	Texas Instruments	Nano Power, Wide VIN Voltage Detector with Programmable Delay, DBV0005A (SOT-23-5)	DBV0005A
37	U7, U9, U14	3		TVS0500DRVR	Texas Instruments	5-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
38	U12	1		CPC1303GR	IXYS	Optocoupler, 5 kV, 200-2500% CTR, SMT	SMD-4, 6.350x3.480x4.4572 mm
39	U13	1		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
40	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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