

TIDA-00979PWR REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB2	1		TIDA-00979PWR	Any	Printed Circuit Board	
2	C5	1	68uF	EEE-FK1E680P	Panasonic	CAP, AL, 68 µF, 25 V, +/- 20%, 0.36 ohm, SMD	SMT Radial D
3	C6, C7	2	3.3uF	C3225X7S2A335M200AB	TDK	CAP, CERM, 3.3 µF, 100 V, +/- 20%, X7S, 1210	1210
4	C8, C9, C10	3	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 µF, 25 V, +/- 20%, X5R, 1206_190	1206_190
5	C11	1	0.022uF	C1005X7R1E223K	TDK	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0402	0402
6	C12	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
7	C13, C20, C22, C23	4	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
8	C14, C15	2	10pF	500R07S100JV4T	Johanson Technology	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
9	C17, C19	2	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 µF, 16 V, +/- 10%, X7R, 0402	0402
10	C18	1	0.47uF	C0603C474K8RACTU	Kemet	CAP, CERM, 0.47 µF, 10 V, +/- 10%, X7R, 0603	0603
11	C21	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
12	D13	1	200V	ES3D-E3/57T	Vishay-Semiconductor	Diode, Ultrafast, 200 V, 3 A, SMC	SMC
13	D14	1	39V	SM6T39CA	STMicroelectronics	Diode, TVS, Bi, 39 V, 600 W, SMB	SMB
14	D15	1	20V	SBR0220T5-7-F	Diodes Inc.	Diode, Schottky, 20 V, 0.2 A, SOD-523	SOD-523
15	D16, D18, D19	3	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
16	D17	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
17	J3	1		61300211021	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, R/A, TH	Header, 2.54 mm, 2x1, R/A, TH
18	J4	1		ZX62R-B-5P	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, SMT	Connector USB Mini B
19	J5, J6	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
20	J7	1		851-11-006-40-001000	Mill-Max	Receptacle, 50mil, 5x1, Gold, R/A, SMT	Receptacle, 6 pin, 50mil, R/A, SMT
21	J8, J11	2		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
22	J9	1		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
23	J10	1		850-10-004-40-001000	Mill-Max	Header, 50mil, 4x1, Gold, R/A, SMT	Header, 50mil, R/A, SMT
24	R4	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
25	R5	1	174k	CRCW0402174KFKED	Vishay-Dale	RES, 174 k, 1%, 0.063 W, 0402	0402
26	R6	1	140k	CRCW0402140KFKED	Vishay-Dale	RES, 140 k, 1%, 0.063 W, 0402	0402
27	R7	1	6.81k	CRCW04026K81FKED	Vishay-Dale	RES, 6.81 k, 1%, 0.063 W, 0402	0402
28	R8	1	1.40k	ERJ-2RKF1401X	Panasonic	RES, 1.40 k, 1%, 0.1 W, 0402	0402
29	R9	1	15.8k	CRCW040215K8FKED	Vishay-Dale	RES, 15.8 k, 1%, 0.063 W, 0402	0402
30	R10	1	267k	CRCW0402267KFKED	Vishay-Dale	RES, 267 k, 1%, 0.063 W, 0402	0402
31	R11, R13	2	27	CRCW040227R0JNED	Vishay-Dale	RES, 27, 5%, 0.063 W, 0402	0402
32	R12	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
33	R14	1	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, 0402	0402
34	R15	1	33.0	CRCW060333R0FKEA	Vishay-Dale	RES, 33.0, 1%, 0.1 W, 0603	0603
35	R17, R18	2	1.02k	CRCW04021K02FKED	Vishay-Dale	RES, 1.02 k, 1%, 0.063 W, 0402	0402
36	R19, R20	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
37	R21	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
38	S1, S2, S3	3		434121025816	Würth Elektronik	Switch, Tactile, SPST, 12 V, SMD	SMD, 6x3.9mm
39	SH-J8, SH-J9, SH-J11	3		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
40	U2	1		LMZ35003RKGR	Texas Instruments	7-V to 50-V Input, 2.5-A Step-Down, Integrated Power Solution, RKG0041A	RKG0041A
41	U3	1		TPD2E001DRLR	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
42	U4	1		MSP430F5528IRGCR	Texas Instruments	25 MHz Mixed Signal Microcontroller with 128 KB Flash, 8192 B SRAM and 47 GPIOs, -40 to 85 degC, 64-pin QFN (RGC), Green (RoHS & no Sb/Br)	RGC0064B
43	U5	1		HDC1080DMBR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, DMB0006A	DMB0006A
44	Y1	1		CSTCR4M00G15L99-R0	MuRata	Resonator, 4MHz, 39pF SMD	4.5x1.2x2 mm
45	C16	0	2200pF	885012205008	Würth Elektronik	CAP, CERM, 2200 pF, 10 V, +/- 10%, X7R, 0402	0402
46	FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
47	R16	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402

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