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TIDA-01162 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01162	Any	Printed Circuit Board	
2	C1, C2	2	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	0603
3	C3, C12	2	4.7uF	C2012X7R1A475M	TDK	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X7R, 0805	0805
4	C4, C9, C11, C13	4	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	0603
5	C5	1	1uF	GRM188R70J105KA01D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 10%, X7R, 0603	0603
6	C6	1	3.3uF	C0603C335K9PACTU	Kemet	CAP, CERM, 3.3 uF, 6.3 V, +/- 10%, X5R, 0603	0603
7	C7, C14	2	1000pF	GRM188R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	0603
8	C8	1	2.2uF	GRM188R60J225KE19D	MuRata	CAP, CERM, 2.2 uF, 6.3 V, +/- 10%, X5R, 0603	0603
9	C10	1	47uF	GRM21BR61A476ME15	MuRata	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	0805
10	D1, D2	2	40V	DFLS240-7	Diodes Inc.	Diode, Schottky, 40 V, 2 A, AEC-Q101, PowerDI123	PowerDI123
11	D3, D4	2	Green	LTST-C171GKT	Lite-On	LED, Green, SMD	LED_0805
12	J1, J2, J3, J5, J6, J7	6		PEC01DAAN	Sullins Connector Solutions	Header, 2.54mm, 1x2, Tin, Black, TH	Header, 2.54mm, 2x1, TH
13	J4, J8	2		851-43-004-20-001000	Mill-Max	SOCKET .050" GRID SIP 4 POS R/A, TH	R/A 4x1 receptacle
14	Q1, Q2	2	30V	PMV45E2R	NXP Semiconductor	MOSFET, N-CH, 30 V, 4.1 A, SOT-23	SOT-23
15	Q3, Q4	2	45 V	BC847BW,115	NXP Semiconductor	Transistor, NPN, 45 V, 0.1 A, AEC-Q101, SOT-323	SOT-323
16	R1, R2, R3, R9, R12, R14, R16, R18	8	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
17	R4, R5	2	240	CRCW0603240RJNEA	Vishay-Dale	RES, 240, 5%, 0.1 W, 0603	0603
18	R6, R7	2	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
19	R8, R17	2	47k	CRCW060347K0JNEA	Vishay-Dale	RES, 47 k, 5%, 0.1 W, 0603	0603
20	R10, R20	2	50k	3352T-1-503LF	Bourns	Trimming Potentiometer, 50K, 0.5W, TH	9.53x8.89mm
21	R11, R21	2	330	CRCW0603330RJNEA	Vishay-Dale	RES, 330, 5%, 0.1 W, 0603	0603
22	R13	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	0603
23	R15	1	127k	CRCW0603127KFKEA	Vishay-Dale	RES, 127 k, 1%, 0.1 W, 0603	0603
24	R19	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
25	TP1, TP2, TP5, TP6, TP7, TP8, TP9, TP10	8	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
26	TP3, TP11	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
27	TP4, TP12	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
28	U1, U3	2		MSP430G2153IPW20R	Texas Instruments	16 MHz Mixed Signal Microcontroller with 1 KB Flash, 256 B SRAM and 24 GPIOs, -40 to 85 degC, 20-pin SOP (PW), Green (RoHS & no Sb/Br)	PW0020A
29	U2	1		LP2981-33DBVR	Texas Instruments	150-mA Low-noise Low-dropout Regulator With Shutdown, DBV0005A	DBV0005A
30	U4	1		DRV8850RGYR	Texas Instruments	Low-Voltage H-Bridge IC With LDO Regulator, RGY0024B	RGY0024B
31	U5	1		SN74LVC2G14DCKR	Texas Instruments	Dual Schmitt-Trigger Inverter, DCK0006A	DCK0006A
32	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial