Variant: 001

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## TIDA-00245 REV E1 Bill of Materials

Item#	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-00245	Any	Printed Circuit Board	
2	C1, C2	2	220pF	C1608C0G1H221J	TDK	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
3	C3, C5, C10, C12	4	10uF	GRM21BR70J106KE76L	MuRata	CAP, CERM, 10 μF, 6.3 V, +/- 10%, X7R, 0805	0805
4	C4, C6, C11, C13	4	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402
5	C7, C8, C14, C15	4	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
6	C9, C16	2	2200pF	GRM155R70J222KA01D	MuRata	CAP, CERM, 2200 pF, 6.3 V, +/- 10%, X7R, 0402	0402
7	D1, D4	2	Super Red	150060SS75000	Wurth Elektronik eiSos	LED, Super Red, SMD	LED 0603
8	D2, D5	2	Green	150060VS75000	Wurth Elektronik eiSos	LED, Green, SMD	LED 0603
9	D3, D6	2	Yellow	150060YS75000	Wurth Elektronik eiSos	LED, Yellow, SMD	LED 0603
10	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
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	J1, J4, J16, J23	4		61300211121	Wurth Elektronik eiSos	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
13	J2, J3, J5, J6, J7, J8	6		61300111121	Wurth Elektronik eiSos	Header, 2.54 mm, 1x1, Gold, TH	Header, 2.54 mm, 1x1, TH
14	J9, J10	2		SBH11-PBPC-D07-RA-BK	Sullins Connector Solutions	Header (Shrouded), 2.54 mm, 7x2, Gold, R/A, TH	Header (Shrouded), 2.54 mm, 7x2, R/A, TH
15	J11, J18	2		TSW-103-08-G-S-RA	Samtec	Header, 100mil, 3x1, Gold, R/A, TH	3x1 R/A Header
16	J13, J14, J20, J21	4		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
17	J15, J22	2		61300311121	Wurth Elektronik eiSos	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
18	R1, R2, R5, R8	4	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
19	R3, R4	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
20	R6, R7	2	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
21	R9, R10, R11, R13, R14, R15	6	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, 0402	0402
22	R12, R16	2	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
23	S1, S2, S3, S4, S5, S6	6		434121025816	Wurth Elektronik eiSos	Switch, Tactile, SPST, 12 V, SMD	SMD, 6x3.9mm
24	SH-22, SH-J1, SH- J4, SH-J15, SH- J16, SH-J23	6	1x2	969102-0000-DA	ЗМ	Shunt, 100mil, Gold plated, Black	Shunt
25	T1	1	400 uH	750315155	Wurth Elektronik eiSos	Transformer, 400 uH, SMT	SMD, Body 8.26x6.6mm
26	U1, U2	2		MSP430FR5969IRGZ	Texas Instruments	Mixed Signal Microcontroller, RGZ0048B	RGZ0048B
27	Y1, Y2	2		MS3V-T1R 32.768KHZ +/- 20PPM 12.5PF	Micro Crystal AG	Crystal, 32.768kHz, 12.5pF, SMD	1.4x1.4x5.0mm SMD
28	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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