

Variant: 001  
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TIDA-020014 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-020014	Any	Printed Circuit Board	
2	C1	1	0.47uF	GRM21BR71H474KA88L	MuRata	CAP, CERM, 0.47 uF, 50 V,+/- 10%, X7R, 0805	0805
3	C2, C3	2	10uF	22201C106MAT2A	AVX	CAP, CERM, 10 uF, 100 V, +/- 20%, X7R, 2220	2220
4	C4	1	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 uF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
5	C5	1	0.1uF	GRM32NR72A104KA01L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1210	1210
6	C6, C7	2	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V,+/- 10%, X7R, 0603	0603
7	C8	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 uF, 50 V,+/- 10%, X5R, 0603	0603
8	C9, C10	2	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 uF, 25 V,+/- 20%, X5R, 0805	0805
9	C11	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
10	C12	1	4.7uF	GRM21BC71H475KE11K	MuRata	CAP, CERM, 4.7 uF, 50 V,+/- 10%, X7S, 0805	0805
11	C13, C16, C18	3	0.1uF	06035C104JAT2A	AVX	CAP, CERM, 0.1 uF, 50 V,+/- 5%, X7R, 0603	0603
12	C14	1	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 uF, 35 V,+/- 10%, X5R, 0603	0603
13	C15	1	0.047uF	GRM188R71H473KA61D	MuRata	CAP, CERM, 0.047 uF, 50 V,+/- 10%, X7R, 0603	0603
14	C17, C19, C43, C45, C46	5	10uF	C3216X7R1V106K160AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1206_190	1206_190
15	C42	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
16	C44	1	10uF	GRM188C81A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X6S, 0603	0603
17	D13	1	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
18	D27, D28	2	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
19	D29	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
20	J1	1		TSW-103-08-G-S	Samtec	Header, 2.54mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
21	J2, J3	2		TSW-102-08-G-S	Samtec	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
22	L1	1	18uH	MSS1260-183MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 18 uH, 3.3 A, 0.04 ohm, SMD	MSS1260
23	R1	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
24	R2	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
25	R3	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
26	R4, R6	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
27	R5	1	255k	CRCW0603255KFKEA	Vishay-Dale	RES, 255 k, 1%, 0.1 W, 0603	0603
28	R7	1	22.1k	RG1608P-2212-B-T5	Susumu Co Ltd	RES, 22.1 k, 0.1%, 0.1 W, 0603	0603
29	R8	1	10.0k	RT0603BRD0710KL	Yageo America	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
30	R19	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
31	R39	1	1.0k	ERJ-6GEYJ102V	Panasonic	RES, 1.0 k, 5%, 0.125 W, 0805	0805
32	R40	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
33	T2	1	50 uH	750342879	Würth Elektronik	Transformer, 50 uH, SMT	9.14x8mm
34	U1	1		LM46002AQPWPQRQ1	Texas Instruments	Automotive Qualified SIMPLE SWITCHER(R) 3.5V to 60V, 2A Synchronous Step-Down Voltage Converter, PWP0016G (TSSOP-16)	PWP0016G
35	U2	1		TL431AQDBZRQ1	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
36	U5	1		SN6505BQDBVRQ1	Texas Instruments	LOW-NOISE 1A TRANSFORMER DRIVERS FOR ISOLATED POWER SUPPLIES, DBV0006A	DBV0006A
37	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A