

Variant: 001
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TIDA-010016 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-010016	Any	Printed Circuit Board	
2	C2, C3	2	22uF	LMK316AB7226KL-TR	Taiyo Yuden	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, 1206	1206
3	C4, C8, C10, C12	4	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C5, C6	2	100uF	EMVA350ADA101MF80G	Chemi-Con	CAP, AL, 100 uF, 35 V, +/- 20%, SMD	F80
5	C9	1	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
6	C11	1	1uF	885012206052	Würth Elektronik	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
7	D1, D2	2	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
8	D3	1	28V	SMCJ28A	Fairchild Semiconductor	Diode, TVS, Uni, 28 V, SMC	SMC
9	F1	1		TR2/6125FF10-R	Eaton	Fuse, 10 A, 125 VAC, 72 VDC, SMD	6.1x2.72mm
10	J1, J2	2		QTH-030-01-L-D-A	Samtec	Header(Shrouded), 19.7mil, 30x2, Gold, SMT	Header (Shrouded), 19.7mil, 30x2, SMT
11	J3	1		0015910400	Molex	Header, 2.54mm, 20x2, Gold with Tin tail, SMT	Header, 2.54mm, 20x2, SMT
12	J4	1		TW-30-03-F-D-300-SM	Samtec	Header, 2mm, 30x2, Gold with Tin tail, SMT	Header, 2mm, 30x2, SMT
13	J5	1		1757242	Phoenix Contact	Header (Shrouded), 5.08 mm, 2x1, Tin, R/A, TH	Header, 5.08 mm, 2x1, R/A, TH
14	J6, J7, J9	3		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
15	J8	1		PJ-102AH	CUI Inc.	DC POWER JACK, R/A, TH	DC POWER JACK, R/A, TH
16	L1	1	47uH	7447785147	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 47 uH, 0.74 A, 0.5 ohm, SMD	SMD
17	R4	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
18	R5	1	261	CRCW0603261RFKEA	Vishay-Dale	RES, 261, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
19	R6	1	4.42k	CRCW08054K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
20	R7	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R8, R9, R12	3	10.0k	RCG060310K0FKEA	Vishay Draloric	RES, 10.0 k, 1%, 0.1 W, 0603	0603
22	U1	1		LM5165YDRCR	Texas Instruments	3V-65V, 150mA Synchronous Buck Converter With Ultra-Low IQ, DRC0010J (VSON-10)	DRC0010J
23	U2	1		INA253A2IPWR	Texas Instruments	Low- or High-Side, Bidirectional, Zero-Drift, Current-Shunt Monitor with Integrated Precision Low Inductive Shunt Resistor, PW0020A (TSSOP-20)	PW0020A
24	D4, D5, D6, D7, D8, D9	0	75V	1N4148WT	Fairchild Semiconductor	Diode, Switching, 75 V, 0.3 A, SOD-523F	SOD-523F
25	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
26	LBL1	0		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
27	R1	0	200k	RT0603BRD07200KL	Yageo America	RES, 200 k, 0.1%, 0.1 W, 0603	0603
28	R2	0	14.3k	CRCW060314K3FKEA	Vishay-Dale	RES, 14.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R3	0	953	CRCW0603953RFKEA	Vishay-Dale	RES, 953, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603