

Variant: 001
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TIDA-00319 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-00319	Any	Printed Circuit Board	
2	C1, C2, C14	3	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0603	0603
3	C3, C4, C15, C16	4	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0603	0603
4	C5	1	2200pF	1812HC222KAT1A	AVX	CAP, CERM, 2200 pF, 3000 V, +/- 10%, X7R, 1812	1812
5	C6, C7, C8	3	3.3uF	GRM21BR71C335KA99L	MuRata	CAP, CERM, 3.3 μ F, 16 V, +/- 10%, X7R, 0805	0805
6	C10	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, 0603	0603
7	C11	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 μ F, 10 V, +/- 20%, X5R, 0603	0603
8	C13	1	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22 μ F, 16 V, +/- 10%, X5R, 0805	0805
9	C17, C19, C20, C21	4	100pF	CGA3E2NP01H101J080AA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 0, 0603	0603
10	C18	1	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
11	D1, D2, D10, D14	4	Green	LTST-C150KGKT	LiteOn	LED, Green, SMD	1.6x3.2mm
12	D3, D4, D5, D6	4	Blue	LB Q39G-L2N2-35-1	OSRAM	LED, Blue, SMD	BLUE 0603 LED
13	D7, D13	2	5.6V	BZT52C5V6T-7	Diodes Inc.	Diode, Zener, 5.6 V, 300 mW, SOD-523	SOD-523
14	D11, D12	2	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
15	D15, D17, D18, D19, D20	5	36V	SMBJ36A-13-F	Diodes Inc.	Diode, TVS, Uni, 36 V, 600 W, SMB	SMB
16	D16	1	Red	LTST-C190CKT	Lite-On	LED, Red, SMD	Red LED, 1.6x0.8x0.8mm
17	FID1, FID2, FID4, FID5	4		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
18	H13, H14	2		1841161	Phoenix Contact	Fiber optics - MC 1,5/10-LWL 1,5-3,5 for Phoenix connectors	
19	J1, J2	2		SSHQ-123-D-08-F-LF	Major League Electronics	Female Connector, 2.54mm, 23x2, TH	Female Connector, 2.54mm, 23x2, TH
20	J5	1		800-10-010-10-001000	Mill-Max	Header, 100mil, 10x1, TH	Header, 10x1, 100mil, TH
21	J8, J9	2		1844236	Phoenix Contact	Terminal Block, 4x1, 3.5mm, Green, R/A, TH	Terminal Block, 4x1, 3.5mm, R/A, TH
22	R1, R3, R4, R5, R7, R8	6	5.62k	CRCW06035K62FKEA	Vishay-Dale	RES, 5.62 k, 1%, 0.1 W, 0603	0603
23	R2	1	453	CRCW0603453RFKEA	Vishay-Dale	RES, 453, 1%, 0.1 W, 0603	0603
24	R6, R9, R10, R11, R12, R13, R15	7	2.2k	RC0603JR-072K2L	Yageo America	RES, 2.2 k, 5%, 0.1 W, 0603	0603
25	R14	1	0.1	ERJ-L03KF10CV	Panasonic	RES, 0.1, 1%, 0.1 W, 0603	0603
26	R18	1	22	CRCW060322R0JNEA	Vishay-Dale	RES, 22, 5%, 0.1 W, 0603	0603
27	R20, R22	2	3.9k	RC0603JR-073K9L	Yageo America	RES, 3.9 k, 5%, 0.1 W, 0603	0603
28	S1	1		219-3MST	CTS Electrocomponents	Switch, SPST, Slide, Off-On, 3 Pos, 0.1A, 20V, SMD	6.7x9.09mm
29	T1	1	475uH	760390014	Würth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
30	U1	1		CAT24C256WI-G	ON Semiconductor	256 kb I2C CMOS Serial EEPROM, SOIC-8	SOIC-8
31	U2	1		ISO7140CCDBQR	Texas Instruments	4242-VPK Small-Footprint and Low-Power Quad Channels Digital Isolators, DBQ0016A	DBQ0016A
32	U3	1		LM2765M6	Texas Instruments	Switched Capacitor Voltage Converter, 6-pin SOT-23	MF06A
33	U5	1		SN6501QDBVRQ1	Texas Instruments	Transformer Driver for Isolated Power Supplies, DBV0005A	DBV0005A
34	U6	1		DRV8803PWPR	Texas Instruments	Quad Low-Side Driver IC, PWP0016D	PWP0016D
35	C9	0	3.3uF	C1608X5R1E335K080AC	TDK	CAP, CERM, 3.3 μ F, 25 V, +/- 10%, X5R, 0603	0603
36	D8, D9	0	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
37	R16	0	0.1	ERJ-L03KF10CV	Panasonic	RES, 0.1, 1%, 0.1 W, 0603	0603
38	R23	0	3.9k	RC0603JR-073K9L	Yageo America	RES, 3.9 k, 5%, 0.1 W, 0603	0603

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