

Variant: 001
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 TID #: TIDA-020019



TIDA-020019 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-020019	Any	Printed Circuit Board	
2	C1, C9	2	22uF	GRT21BR61E226ME13L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0805	0805
3	C2, C3	2	4.7uF	GRT21BR61H475KE13L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0805	0805
4	C4	1	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C5	1	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C6	1	75pF	GRM1555C1H750JA01D	MuRata	CAP, CERM, 75 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
7	C7, C8, C12, C14, C16, C19, C25, C26	8	10uF	GRT188C81A106ME13D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X6S, AEC-Q200 Grade 2, 0603	0603
8	C10, C13, C15, C17, C18, C27	6	0.1uF	GCM155R71A104KA55D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
9	C11	1	2.2uF	GRT188R61H225KE13D	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	0603
10	C20, C23	2	0.5pF	GQM2195C2AR50CB01D	MuRata	CAP, CERM, 0.5 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
11	C21, C24	2	0.1pF	GRM1555C1HR10WA01D	MuRata	CAP, CERM, 0.1pF, 50 V, +/- 50%, C0G/NP0, 0402	0402
12	C22	1	4700pF	CGA3E2X7R2A472K080AA	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
13	D1, D2	2			FairchildSemiconductor	Schottky Diode, 20V, 0.2A, 2-pin SOD-123, RoHS, Tape and Reel	
14	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
15	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
16	J1, J2	2		1725698	Phoenix Contact	Terminal Block, 6x1, 2.54mm, TH	Terminal Block, 6x1, 2.54mm, TH
17	L1	1	22uH	7447779122	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 22 uH, 1.41 A, 0.09 ohm, SMD	SMD
18	L2	1	100uH	ACT45B-101-2P-TL003	TDK	Inductor, Ferrite, 100 uH, 0.15 A, 2 ohm, SMD	SMD, 4-Leads, Body 4.7 x 3.7 mm
19	R1, R3, R4	3	20k	ERJ-2GEJ203X	Panasonic	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
20	R2	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, 0402	0402
21	R5, R8, R9, R10	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
22	R6, R7	2	60.4	ERJ-8ENF60R4V	Panasonic	RES, 60.4, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
23	T1	1	110uH	750315240	Würth Elektronik	Transformer, 110 uH, SMT	10.41x12.32mm
24	U1	1		LMR23610AQDDARQ1	Texas Instruments	SIMPLE SWITCHER, 36V, 1A Synchronous Step-Down Converter, DDA0008E (SOIC-8)	DDA0008E
25	U2	1		SN6505ADBVR	Texas Instruments	Low-Noise 1-A Transformer Driver for Isolated Power Supplies, Internal Clock-160kHz, DBV0006A (SOT-23-6)	DBV0006A
26	U3	1		TPS76350QDBVRQ1	Texas Instruments	Single Output Automotive LDO, 150 mA, Fixed 5 V Output, 2.7 to 10 V Input, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
27	U4	1		ISO1042BDWV	Texas Instruments	Reinforced Isolated CAN XCVRs with 70V Protection Voltage and CAN FD, DWV0008A (SOIC-8)	DWV0008A
28	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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