

Variant: 001
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TIDA-01349 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2, C3, C4, C7, C9, C10, C11, C14, C15, C17, C21, C22, C30, C32, C33, C34, C36, C38, C40, C41, C42, C46, C49, C53, C55, C56	27	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
2	C5, C12	2	0.1uF	C1206C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 1206	1206
3	C6, C13, C18, C19, C50, C51	6	4.7uF	C2012X7R1E475K125AB	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	0805
4	C8, C16, C52	3	4700pF	C0603C472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
5	C23, C24, C25, C27, C28, C29	6	1000pF	C0603C102J5GACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
6	C26	1	2uF	B32774D0205K000	TDK	CAP, Film, 2 uF, 1100 V, +/- 10%, 0.011 ohm, TH	31.5x21.5x12.5mm
7	C31, C35, C37, C39	4	2.2uF	UMK316B7225KL-T	Taiyo Yuden	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
8	C43	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
9	C44	1	180pF	C0603C181J5GACTU	Kemet	CAP, CERM, 180 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
10	C45	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
11	C47	1	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210	1210
12	D1, D2, D3, D4	4	20V	DFLZ20-7	Diodes Inc.	Diode, Zener, 20 V, 1 W, PowerDI123	PowerDI123
13	J1	1		HSEC8-160-01-L-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
14	J2	1		61301021121	Würth Elektronik	Header, 2.54 mm, 5x2, Gold, TH	Header, 2.54mm, 5x2, TH
15	J3	1		HSEC8-130-01-L-DV-A	Samtec	C2000 controlCARD-180HSEC (60-pin add-on) connector, SMT	C2000 pin numbering
16	J4, J5, J6	3		1902547	Phoenix Contact	Terminal Block, 9.52mm, 2x1, R/A, TH	Terminal Block, 2x1, Pitch 9.52mm
17	J7	1		PEC07DAAN	Sullins Connector Solutions	Header, 100mil, 7x2, Tin, TH	Header, 7x2, 100mil, Tin
18	J8, J9	2		PEC01DAAN	Sullins Connector Solutions	Header, 2.54mm, 1x2, Tin, Black, TH	Header, 2.54mm, 2x1, TH
19	Q1	1	20V	MGSF1N02LT1G	ON Semiconductor	MOSFET, N-CH, 20 V, 0.75 A, SOT-23	SOT-23
20	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R38, R39, R46, R47	14	22.0	RC0603FR-0722RL	Yageo America	RES, 22.0, 1%, 0.1 W, 0603	0603
21	R11, R26	2	187	CRCW0603187RFKEA	Vishay-Dale	RES, 187, 1%, 0.1 W, 0603	0603
22	R12, R15, R17, R21, R23, R25, R29	7	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
23	R13, R14, R16, R20, R22, R24	6	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
24	R18, R19	2	0.005	CSNL1206FT5L00	Stackpole Electronics Inc	RES, 0.005, 1%, 1 W, 1206	1206

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25	R27, R28, R36, R43, R44, R45	6	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
26	R30, R32, R37, R40, R42	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
27	R31	1	4.42k	RC0603FR-074K42L	Yageo America	RES, 4.42 k, 1%, 0.1 W, 0603	0603
28	R35	1	402	CRCW0603402RFKEA	Vishay-Dale	RES, 402, 1%, 0.1 W, 0603	0603
29	R41	1	32.4k	RC0603FR-0732K4L	Yageo America	RES, 32.4 k, 1%, 0.1 W, 0603	0603
30	U1	1		ISO7760FDWR	Texas Instruments	High Speed, Robust EMC Six-Channel Digital Isolators, DW0016B (SOIC-16)	DW0016B
31	U2, U4	2		TLV76050DBZR	Texas Instruments	100-mA, 30-V, Fixed-Output, Linear-Voltage Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
32	U3, U5	2		AMC1303M0520DWVR	Texas Instruments	Small Reinforced Isolated Modulator With +/-50mV Input, Internal Clock, and CMOS Interface, DWV0008A (SOIC-8)	DWV0008A
33	U6	1		TPS7A4201DGNR	Texas Instruments	Single Output LDO, 50 mA, Adjustable 1.175 to 26 V Output, 7 to 28 V Input, 8-pin MSOP (DGN), -40 to 125 degC, Green (RoHS & no Sb/Br)	DGN0008B
34	U7, U8	2		AMC1303M2520DWVR	Texas Instruments	Small Reinforced Isolated Modulator With +/-250mV Input, Internal Clock, and CMOS Interface, DWV0008A (SOIC-8)	DWV0008A
35	U9	1		PSS15SA2FT	Mitsubishi	Dual-In-Line Package Intelligent Power Module, TH	79x31mm
36	U10	1		TPS70633DBVR	Texas Instruments	150-mA, 6.5-V, 1-uA IQ Voltage Regulators with Enable, DBV0005A (SOT-23-5)	DBV0005A
37	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A