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TIDA-01421 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-01421	Any	Printed Circuit Board	
2	C1	1	3300pF	GCM188R72A332KA37D	MuRata	CAP, CERM, 3300 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
3	C2, C4, C6	3	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C3, C5	2	1uF	LMK107B7105KAHT	Taiyo Yuden	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C7	1	0.068uF	CGA3E2X7R1H683K080AA	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C8	1	2.2uF	CGA4J3X7R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
7	C9	1	1500pF	CGA3E2X7R2A152K080AA	TDK	CAP, CERM, 1500 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
8	C10	1	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
9	C11, C13	2	4.7uF	GCM21BR71C475KA73K	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
10	C12, C14	2	2.2uF	CGA4J3X7R1E225K125AB	TDK	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
11	C15	1	0.1uF	CGJ3E2X7R1C104K080AA	TDK	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	D1	1	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
13	D2	1	5V	1SS351-TB-E	ON Semiconductor	Diode, Schottky, 5 V, 0.03 A, SOT-23	SOT-23
14	J1, J3	2		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
15	J2	1		0022284033	Molex	Header, 2.54mm, 3x1, Tin, TH	Header, 2.54mm, 3x1, TH
16	J4, J5	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
17	R1	1	75k	CRCW060375K0JNEA	Vishay-Dale	RES, 75 k, 5%, 0.1 W, 0603	0603
18	R2, R10	2	1.10Meg	CRCW06031M10FKEA	Vishay-Dale	RES, 1.10 M, 1%, 0.1 W, 0603	0603
19	R3	1	30.0k	ERJ-3EKF3002V	Panasonic	RES, 30.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
20	R4, R11, R17	3	10.0k	RMCF0603FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R5, R7	2	10.0	PATT0805E10R0BGT1	Vishay Thin Film	RES, 10.0, 0.1%, 0.2 W, AEC-Q200 Grade 0, 0805	0805
22	R6	1	0.003	CRE2512-FZ-R003E-3	Bourns	RES, 0.003, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
23	R8, R9	2	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
24	R12, R20	2	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
25	R13	1	499k	ERJ-3EKF4993V	Panasonic	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R14	1	100k	ERA-3AEB104V	Panasonic	RES, 100 k, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R15	1	95.3k	CRCW060395K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.1 W, 0603	0603
28	R16	1	806k	CRCW0603806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.1 W, 0603	0603
29	R18	1	100k	TNPW0603100KBEEA	Vishay-Dale	RES, 100 k, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
30	R19	1	100	ESR03EZPJ101	Rohm	RES, 100, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
31	U1	1		LMV7275IDCKRQ1	Texas Instruments	Automotive, Single 1.8V Low Power Comparators with Rail-to-Rail Input, DCK0005A (SOT-5)	DCK0005A
32	U2	1		INA240A1QDRQ1	Texas Instruments	Automotive, High/Low Side, Bi-Directional Zero-Drift Current Sense Amp w/ Enhanced PWM Rejection, D0008A (SOIC-8)	D0008A
33	U3	1		TLV2316QDGKRQ1	Texas Instruments	10-MHz, Rail-to-Rail Input/Output, Low-Voltage, 1.8-V CMOS Operational Amplifier, DGK0008A (VSSOP-8)	DGK0008A
34	U4	1		TPS7B6933QDBVRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-5)	DBV0005A
35	U5	1		TPS7B6950QDBVRQ1	Texas Instruments	Automotive High-Voltage Ultra-Low IQ Low-Dropout Regulator/Fixed 5-V Output Voltage, DBV0005A (SOT-5)	DBV0005A

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