

TIDA-020030 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		TIDA-020030	Any	Printed Circuit Board	
C1, C23	2	10uF	C5750X7S2A106K230KB	TDK	CAP, CERM, 10 µF, 100 V,+/- 10%, X7S, 2220	2220
C2, C24	2	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 µF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
C3, C25	2	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, 0805	0805
C4	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
C5, C11	2	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
C6, C26	2	220pF	GRM1885C2A221JA01D	MuRata	CAP, CERM, 220 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C7, C8, C12, C13, C27, C28, C32, C34	8	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 µF, 25 V,+/- 20%, X5R, 0805	0805
C9, C14, C29, C35	4	0.22uF	GRM21BR71H224KA01L	MuRata	CAP, CERM, 0.22 µF, 50 V,+/- 10%, X7R, 0805	0805
C10	1	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
C17, C38	2	0.047uF	GRM188R71C473KA01D	MuRata	CAP, CERM, 0.047 µF, 16 V,+/- 10%, X7R, 0603	0603
C18, C30	2	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
C19, C31	2	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
C20, C33	2	2.2uF	C1206C225K4RACTU	Kemet	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 1206	1206
C21, C22, C39, C40, C44, C45, C46, C53, C54, C55, C68, C89, C101, C102, C103, C105, C108, C110, C111, C121, C123, C124, C137, C138	24	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0603	0603
C41, C47, C48, C57	4	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 µF, 50 V,+/- 10%, X7R, 0603	0603
C42, C43, C49, C56, C71, C90, C100, C104, C106, C107, C112, C113, C122, C125, C127	15	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C50	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
C51, C52, C58, C59	4	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0603	0603
C60, C61, C62, C63	4	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C64, C65	2	0.1uF	GRM155R61A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0402	0402

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C66, C69, C72, C76	4	0.1uF	C1206C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 1206	1206
C67, C70, C73, C77	4	1uF	C3216X7R1H105K160AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
C74, C78	2	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
C75, C79	2	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C80, C91	2	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
C81, C82, C83, C84, C85, C92, C93, C94, C95, C96	10	100pF	CC0402JRNPO9BN101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C87, C88, C98, C99	4	0.01uF	SR0603X7R103K1NT95(F)#M123A	Presidio Components	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
C109, C114, C119, C126, C128, C133	6	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C115, C130	2	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C116, C129	2	0.33uF	GRM219R71H334KA88D	MuRata	CAP, CERM, 0.33 uF, 50 V, +/- 10%, X7R, 0805	0805
C117, C131	2	2200pF	GRM188R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0603	0603
C118, C120, C132, C134, C135, C136	6	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1	1	60V	B260A-13-F	Diodes Inc.	Diode, Schottky, 60 V, 2 A, SMA	SMA
D2, D11	2	24V	DFLZ24-7	Diodes Inc.	Diode, Zener, 24 V, 1 W, PowerDI123	PowerDI123
D3, D12	2	200V	DFLU1200-7	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 1 A, AEC-Q101, PowerDI123	PowerDI123
D4, D13	2	18V	BZT52C18-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, AEC-Q101, SOD-123	SOD-123
D5, D14	2	75V	CMDD4448	Central Semiconductor	Diode, Ultrafast, 75 V, 0.25 A, SOD-323	SOD-323
D6, D7, D15	3	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
D8, D16	2	100V	PMEG10010ELRX	Nexperia	Diode, Schottky, 100 V, 1 A, AEC-Q101, SOD-123W	SOD-123W
D9, D18	2	8.2V	BZT52C8V2-7-F	Diodes Inc.	Diode, Zener, 8.2 V, 500 mW, SOD-123	SOD-123
D10, D17	2	5.1V	SMAZ5V1-13-F	Diodes Inc.	Diode, Zener, 5.1 V, 1 W, SMA	SMA
D19, D20, D22, D23, D24, D27, D28, D29	8	Super Red	150060SS75000	Würth Elektronik	LED, Super Red, SMD	LED_0603
D21, D26	2	19V	SMBJ20CA	Littelfuse	Diode, TVS, Bi, 19 V, SMB	SMB
D25, D30	2	4.7V	MMSZ4688-E3-08	Vishay-Semiconductor	Diode, Zener, 4.7 V, 500 mW, SOD-123	SOD-123
D31, D33, D35, D36, D41, D42	6	30V	RB521CS30L,315	Nexperia	Diode, Schottky, 30 V, 0.1 A, AEC-Q101, SOD882	SOD882
D32, D38	2	75V	1N4148X-TP	Micro Commercial Components	Diode, Switching, 75 V, 0.3 A, SOD-523	SOD-523
FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
J1	1		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
J2, J3	2		TSW-106-08-T-D-RA	Samtec	Header, 2.54 mm, 6x2, Gold, R/A, TH	6x2 R/A Header
J4	1		90122-0763	Molex	Header, 2.54mm, 3x2, Gold, R/A, TH	Header, 2.54mm, 3x2, R/A, TH
Q1, Q2	2	45 V	BC857C-7-F	Diodes Inc.	Transistor, PNP, 45 V, 0.1 A, SOT-23	SOT-23
Q3, Q5, Q9, Q17	4	40V	SI2318CDS-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 5.6 A, SOT-23	SOT-23

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Q4	1	40 V	MMST3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-323	SOT-323
Q6, Q12	2	50V	DMN5L06WK-7	Diodes Inc.	MOSFET, N-CH, 50 V, 0.3 A, SOT-323	SOT-323
Q7, Q8	2	60 V	DPBT8105-7	Diodes Inc.	Transistor, PNP, 60 V, 1 A, AEC-Q101, SOT-23	SOT-23
Q10, Q11	2	60 V	DNBT8105-7	Diodes Inc.	Transistor, NPN, 60 V, 1 A, AEC-Q101, SOT-23	SOT-23
Q13, Q14	2	60 V	MMBT2907AT-7-F	Diodes Inc.	Transistor, PNP, 60 V, 0.6 A, AEC-Q101, SOT-523	SOT-523
Q15, Q16	2	40 V	MMBT3904T-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-523	SOT-523
R1, R12	2	100	CRCW0805100RFKEA	Vishay-Dale	RES, 100, 1%, 0.125 W, 0805	0805
R2, R8, R13, R19, R108, R109	6	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R3, R14	2	20.0k	CRCW080520K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.125 W, 0805	0805
R4	1	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
R5, R16	2	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
R6, R17	2	154k	CRCW0603154KFKEA	Vishay-Dale	RES, 154 k, 1%, 0.1 W, 0603	0603
R7, R18	2	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
R10, R15, R58, R83	4	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R11, R21	2	12.1k	CRCW080512K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.125 W, 0805	0805
R22, R23, R24, R25, R26, R27	6	221k	CRCW1206221KFKEA	Vishay-Dale	RES, 221 k, 1%, 0.25 W, 1206	1206
R28, R31, R118, R119, R120, R126, R143, R144, R145, R151	10	2.49k	CRCW08052K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.125 W, 0805	0805
R29, R71, R99	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R30, R40, R131, R161	4	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R32, R33, R37, R38	4	4.64k	CRCW06034K64FKEA	Vishay-Dale	RES, 4.64 k, 1%, 0.1 W, 0603	0603
R34, R35	2	1.21k	CRCW06031K21FKEA	Vishay-Dale	RES, 1.21 k, 1%, 0.1 W, 0603	0603
R36, R72, R101	3	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R39, R42	2	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R41, R78, R82	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R43, R44, R130, R154	4	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, 0603	0603
R45, R46	2	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R47, R49	2	240k	CRCW0402240KFKEA	Vishay-Dale	RES, 240 k, 1%, 0.063 W, 0402	0402
R48, R50	2	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R51, R54	2	1.82k	CRCW04021K82FKED	Vishay-Dale	RES, 1.82 k, 1%, 0.063 W, 0402	0402
R52, R53	2	11.0k	CRCW060311K0FKEA	Vishay-Dale	RES, 11.0 k, 1%, 0.1 W, 0603	0603
R55, R170	2	3.32k	CRCW06033K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R56, R57	2	5.76k	CRCW04025K76FKED	Vishay-Dale	RES, 5.76 k, 1%, 0.063 W, 0402	0402
R59, R60, R61, R85, R86, R87	6	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R62, R64, R88, R90	4	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402

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R63, R65, R66, R67, R68, R70, R89, R91, R93, R94, R95, R98	12	5.1	CRCW20105R10JNEF	Vishay-Dale	RES, 5.1, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R69, R96, R121, R147	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R73, R100	2	10.0	TNPW060310R0BEEA	Vishay-Dale	RES, 10.0, 0.1%, 0.1 W, 0603	0603
R74, R80, R84, R106	4	2.00	CRCW12062R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.25 W, 1206	1206
R75, R76, R77, R102, R103, R104	6	3.48k	CRCW06033K48FKEA	Vishay-Dale	RES, 3.48 k, 1%, 0.1 W, 0603	0603
R81, R107, R111, R113, R114, R116, R134, R135, R137, R138, R139, R142, R157, R158, R160, R163, R164, R166	18	10.2k	CRCW060310K2FKEA	Vishay-Dale	RES, 10.2 k, 1%, 0.1 W, 0603	0603
R92, R122, R148	3	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R97	1	2.49k	RT0805BRD072K49L	Yageo America	RES, 2.49 k, 0.1%, 0.125 W, 0805	0805
R110, R112, R129, R153	4	1.02k	CRCW06031K02FKEA	Vishay-Dale	RES, 1.02 k, 1%, 0.1 W, 0603	0603
R115, R117	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R123, R150	2	4.02k	CRCW08054K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.125 W, 0805	0805
R124, R146	2	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
R125, R127, R141, R149, R152, R167	6	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R128, R132, R155, R162	4	3.01k	CRCW08053K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.125 W, 0805	0805
R133, R136, R156, R159, R168, R169	6	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R140, R165	2	24.9	CRCW080524R9FKEA	Vishay-Dale	RES, 24.9, 1%, 0.125 W, 0805	0805
R171	1	9.09k	CRCW06039K09FKEA	Vishay-Dale	RES, 9.09 k, 1%, 0.1 W, 0603	0603
S1, S2, S3, S4, S5, S6	6		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
T1, T2	2		ZA9710-AE	Coilcraft	Flyback Transformer	SMT_8
TP1, TP3, TP18, TP26	4		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
TP2, TP23, TP24	3		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint

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TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP17, TP19, TP20, TP21, TP22, TP25	15		0508-0-00-15-00-00-03-0	Mill-Max	PCB Pin, 20mil Dia, Gold, TH	PCB Pin, 20mil Dia, TH
TP13, TP14, TP15, TP16	4		5122	Keystone	Test Point, Compact, Blue, TH	Blue Compact Testpoint
U1	1		TPS7B8250QDGNRQ1	Texas Instruments	300mA High-Voltage Ultra-Low-Iq Low-Dropout (LDO) Regulator, DGN0008D (VSSOP-8)	DGN0008D
U2, U6	2		LM5180QNGURQ1	Texas Instruments	70-V PSR Flyback Converter With 100-V, 1.2-A Power Switch and Ultra-Low IQ, NGU0008C (WSON-8)	NGU0008C
U3, U5	2		TPS70950QDBVRQ1	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input LDO with Reverse Current Protection for Automotive, DBV0005A (SOT-23-5)	DBV0005A
U4, U7	2		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, LDO Regulator w/ Foldback Current Limit, DBV0005A (SOT-23-5)	DBV0005A
U8	1		AMC1311QDWVRQ1	Texas Instruments	Precision, 2-V Input, Reinforced Isolated Amplifier, DWV0008A (SOIC-8)	DWV0008A
U9	1		OPA320AQDBVRQ1	Texas Instruments	Automotive Qualified Precision, Zero-Crossover, 20MHz, 0.9pA Ib, RRIO, CMOS Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A
U10	1		ISO7742FQDWRQ1	Texas Instruments	Automotive, High Speed, Robust EMC Quad-Channel Digital Isolators, DW0016B (SOIC-16)	DW0016B
U11	1		ADS7049QDCURQ1	Texas Instruments	Ultra-Low-Power Ultra-Small-Size 12-Bit 2MSPS SAR ADC, DCU0008A (VSSOP-8)	DCU0008A
U12, U13	2		TPS3700QDDCRQ1	Texas Instruments	Automotive, High-Voltage (18V) Window Comparator with Over- and Undervoltage Detection, DDC0006A (SOT-23-T-6)	DDC0006A
U14, U15	2		UCC21732QDWQ1	Texas Instruments	Single Channel Isolated Gate Driver for SiC/IGBT with Advanced Protection and High-CMTI, DW0016B (SOIC-16)	DW0016B
U16	1		TL431AQDBZRQ1	Texas Instruments	Automotive Catalog Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U17	1		SN74AHC1G08QDBVRQ1	Texas Instruments	Automotive Catalog Single 2-Input Positive-AND Gate, DBV0005A, LARGE T&R	DBV0005A
U18, U19	2		TLV271QDBVRQ1	Texas Instruments	Automotive Catalog 550 uA/Ch, 3 MHz, Rail-to-Rail Output Operational Amplifier, 2.7 to 16 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
U20, U23	2		TLV3201AIDCKR	Texas Instruments	40ns, micro-Power, Rail-to-Rail Input, Single-Channel Comparator with Push-Pull Outputs, DCK0005A (SOT-SC70-5)	DCK0005A
U21, U22	2		ISO7762FQDWQ1	Texas Instruments	Automotive, High Speed, Robust EMC Six-Channel Digital Isolators, DW0016B (SOIC-16)	DW0016B
C15, C16, C36, C37	0	1500pF	DE2E3KY152MN3AM02F	MuRata	CAP, CERM, 1500 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, TH	TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm
C86, C97	0	2200pF	GRM155R71C222KA01D	MuRata	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0402	0402
MD1	0		FF400R07A01E3S6XKSA2	Infineon Technologies	MOD IGBT MED PWR 14MDIP	PG-MDIP-14
R9, R20	0	976k	CRCW0603976KFKEA	Vishay-Dale	RES, 976 k, 1%, 0.1 W, 0603	0603
R79, R105	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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