

TIDA-010048 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1_CHA, C1_CHB, C1_CHC, C1_CHD, C3_CHA, C3_CHB, C3_CHC, C3_CHD, C4_CHA, C4_CHB, C4_CHC, C4_CHD, Cin1_CHA, Cin1_CHB, Cin1_CHC, Cin1_CHD	16	4.7uF	C2012X5R1H475K125AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805	0805
C2_CHA, C2_CHB, C2_CHC, C2_CHD	4	1uF	C3216X7R2A105K160AA	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
C5_CHA, C5_CHB, C5_CHC, C5_CHD, C14	5	0.022uF	C0603X223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C6_CHA, C6_CHB, C6_CHC, C6_CHD, C8_CHA, C8_CHB, C8_CHC, C8_CHD	8	1000pF	C0603C102J5GACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C7_CHA, C7_CHB, C7_CHC, C7_CHD	4	0.01uF	GRM1885C1H103JA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 5%, C0G/NP0, 0603	0603

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C9_CHA, C9_CHB, C9_CHC, C9_CHD, C10_CHA, C10_CHB, C10_CHC, C10_CHD, C11_CHA, C11_CHB, C11_CHC, C11_CHD, C12_CHA, C12_CHB, C12_CHC, C12_CHD	16	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	0603
C13	1	2.2uF	C1210C225K1RACTU	Kemet	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C15, C16, C17, C18	4	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
CFF1_CHA, CFF1_CHB, CFF1_CHC, CFF1_CHD	4	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
Cout1_CHA, Cout1_CHB, Cout1_CHC, Cout1_CHD	4	10uF	C3225X7R1E106M250AC	TDK	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, 1210	1210
Css1_CHA, Css1_CHB, Css1_CHC, Css1_CHD	4	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0603	0603
D1_CHA, D1_CHB, D1_CHC, D1_CHD	4	150V	RB168LAM150TR	Rohm	Diode, Schottky, 150 V, 1 A, SOD-128	SOD-128
D2_CHA, D2_CHB, D2_CHC, D2_CHD, D6	5	28V	MMSZ5255B-7-F	Diodes Inc.	Diode, Zener, 28 V, 500 mW, SOD-123	SOD-123
D3_CHA, D3_CHB, D3_CHC, D3_CHD	4	40V	RB751S40	Fairchild Semiconductor	Diode, Schottky, 40 V, 0.03 A, SOD-523F	SOD-523F

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D4_CHA, D4_CHB, D4_CHC, D4_CHD, D5_CHA, D5_CHB, D5_CHC, D5_CHD	8	Green	150040GS73240	Würth Elektronik	LED, Green, SMD	1x0.5mm
D7	1	75V	CMDD4448	Central Semiconductor	Diode, Ultrafast, 75 V, 0.25 A, SOD-323	SOD-323
J1_CHA, J1_CHB, J1_CHC, J1_CHD, J3_CHA, J3_CHB, J3_CHC, J3_CHD	8		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
J2_CHA, J2_CHB, J2_CHC, J2_CHD, J6, J8	6		GBC03SAAN	Sullins Connector Solutions	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54 mm, 3x1, TH
J4, J5	2		TSM-110-01-L-DV-P	Samtec	Header, 2.54mm, 10x2, Gold, SMT	1000x180x290mil
J7	1		SWR25X-NRTC-S06-ST-BA	Sullins Connector Solutions	Header, 2.54mm, 6x1, Tin, TH	Header, 2.54mm, 6x1, TH
R1_CHA, R1_CHB, R1_CHC, R1_CHD	4	887k	RC0603FR-07887KL	Yageo	RES, 887 k, 1%, 0.1 W, 0603	0603
R2_CHA, R2_CHB, R2_CHC, R2_CHD, R7_CHA, R7_CHB, R7_CHC, R7_CHD, R18	9	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
R3_CHA, R3_CHB, R3_CHC, R3_CHD	4	29.4k	RC0603FR-0729K4L	Yageo	RES, 29.4 k, 1%, 0.1 W, 0603	0603
R4_CHA, R4_CHB, R4_CHC, R4_CHD	4	267k	RC0603FR-07267KL	Yageo	RES, 267 k, 1%, 0.1 W, 0603	0603
R5_CHA, R5_CHB, R5_CHC, R5_CHD	4	34.0k	RC0603FR-0734KL	Yageo	RES, 34.0 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R6_CHA, R6_CHB, R6_CHC, R6_CHD	4	178k	CRCW0603178KFKEA	Vishay-Dale	RES, 178 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8_CHA, R8_CHB, R8_CHC, R8_CHD, R11_CHA, R11_CHB, R11_CHC, R11_CHD	8	4.70k	ERJ-P06F4701V	Panasonic	RES, 4.70 k, 1%, 0.5 W, AEC-Q200 Grade 0, 0805	0805
R9_CHA, R9_CHB, R9_CHC, R9_CHD	4	47k	CRCW060347K0JNEA	Vishay-Dale	RES, 47 k, 5%, 0.1 W, 0603	0603
R10_CHA, R10_CHB, R10_CHC, R10_CHD	4	24.9	RNCF0603TKY24R9	Stackpole Electronics Inc	RES, 24.9, 0.01%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12_CHA, R12_CHB, R12_CHC, R12_CHD, R13_CHA, R13_CHB, R13_CHC, R13_CHD, R19, R20, R21, R22, R23, R24, R25, R26	16	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14_CHA, R14_CHB, R14_CHC, R14_CHD, R15_CHA, R15_CHB, R15_CHC, R15_CHD	8	3.32k	RC0603FR-073K32L	Yageo	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R16	1	536k	RC0603FR-07536KL	Yageo	RES, 536 k, 1%, 0.1 W, 0603	0603
R17	1	126k	RT0603DRE07126KL	Yageo America	RES, 126 k, 0.5%, 0.1 W, 0603	0603
R27, R28, R29, R30	4	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, 0603	0603
Rset1	1	12.1k	RC0603FR-0712K1L	Yageo	RES, 12.1 k, 1%, 0.1 W, 0603	0603
Rtc1	1	255k	RC0603FR-07255KL	Yageo	RES, 255 k, 1%, 0.1 W, 0603	0603
T1	1	22uH	750317963	Würth Elektronik	Transformer, 22 uH, TH	13.97x15.25mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP1_CHA, TP1_CHB, TP1_CHC, TP1_CHD, TP2_CHA, TP2_CHB, TP2_CHC, TP2_CHD, TP3_CHA, TP3_CHB, TP3_CHC, TP3_CHD, TP4_CHA, TP4_CHB, TP4_CHC, TP4_CHD, TP5, TP6	18		1573-2	Keystone	Terminal, Turret, TH, Double	Keystone1573-2
U1_CHA, U1_CHB, U1_CHC, U1_CHD	4		TPS26625DRCR	Texas Instruments	60-V, 800-mA Industrial eFuse with Integrated Reverse Polarity Protection, DRC0010J (VSON-10)	DRC0010J
U2_CHA, U2_CHB, U2_CHC, U2_CHD	4		TPS7A4901DRBR	Texas Instruments	Vin 3V to 36V, 150mA, Ultra-Low-Noise, High-PSRR Low-Dropout (LDO) Linear Regulator, DRB0008A (VSON-8)	DRB0008A
U3_CHA, U3_CHB, U3_CHC, U3_CHD	4		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U4_CHA, U4_CHB, U4_CHC, U4_CHD	4		ADS122U04IRTER	Texas Instruments	24-Bit, 2kSPS, 4-Ch, Low-Power Delta-Sigma ADC w/ PGA, Voltage Reference, 2x IDACs & UART Interface, RTE0016D (WQFN-16)	RTE0016D
U5_CHA, U5_CHB, U5_CHC, U5_CHD	4		ISO7721DWV	Texas Instruments	High Speed, Robust EMC Reinforced Dual-Channel Digital Isolator, DWV0008A (SOIC-8)	DWV0008A
U6	1		LM5180QNGURQ1	Texas Instruments	70-V PSR Flyback Converter With 100-V, 1.2-A Power Switch and Ultra-Low IQ, NGU0008C (WSON-8)	NGU0008C
U7	1		SN74LV4052A	Texas Instruments	Automotive Catalog Dual 4-Channel Analog Multiplexer/Demultiplexer, PW0016A (TSSOP-16)	PW0016A

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