

Variant: TMCS1123  
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TIDA-010937 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-010937	Any	Printed Circuit Board	
2	C1, C2, C4, C5, C7, C12, C22	7	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	0603
3	C3	1	2.2uF	LMK107BJ225KA-T	Taiyo Yuden	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, 0603	0603
4	C6	1	2.2uF	GRM188R61C225KE15D	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0603	0603
5	C9	1	750pF	GRM1885C1E751JA01D	MuRata	CAP, CERM, 750 pF, 25 V, +/- 5%, COG/NPO, 0603	0603
6	C10	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
7	C13	1	100pF	0603ZC101KAT2A	AVX	CAP, CERM, 100 pF, 10 V, +/- 10%, X7R, 0603	0603
8	C14, C15, C16	3	1000pF	C0603C102F3GACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 1%, COG/NPO, 0603	0603
9	C17	1	3.3uF	C1608X6S1C335K080AC	TDK	CAP, CERM, 3.3 uF, 16 V, +/- 10%, X6S, 0603	0603
10	C18	1	1uF	EMK107B7105KAHT	Taiyo Yuden	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
11	C20	1	430pF	GRM1885C1H431JA01D	MuRata	CAP, CERM, 430 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
12	C23	1	10uF	TMK212BBJ106MG-T	Taiyo Yuden	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0805	0805
13	FAULT, LDO_V, OC, TP1, TP2, VOC1	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
14	H1	1		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
15	H2	1		2204	Keystone		
16	J1, J4, J10	3		TSW-103-08-G-S	Samtec	Header, 2.54mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
17	J2	1		1902547	Phoenix Contact	Terminal Block, 9.52mm, 2x1, R/A, TH	Terminal Block, 2x1, Pitch 9.52mm
18	J5	1		1904150	Phoenix Contact	Terminal Block, 9.52mm, 3x1, R/A, TH	Terminal Block, 3x1, Pitch 9.52mm
19	J6	1		1751248	Phoenix Contact	Conn Term Block, 2POS, 3.5mm, TH	11x8.5x7.3mm
20	J7	1		702471451	Molex	Header(shrouded), 2.54mm, 7x2, R/A, Gold, TH	Header(shrouded), 2.54mm, 7x2, R/A, TH
21	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
22	LDO, REF	2	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
23	R1, R2, R5, R14, R15, R18, R21, R26, R28, R32	10	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
24	R3, R4	2	680	RC0603JR-07680RL	Yageo	RES, 680, 5%, 0.1 W, 0603	0603
25	R6, R9	2	1.13k	RT0603BRD071K13L	Yageo America	RES, 1.13 k, 0.1%, 0.1 W, 0603	0603
26	R7	1	1.62k	CPF0603B1K62E	TE Connectivity	RES, 1.62 k, 0.1%, 0.063 W, 0603	0603
27	R8	1	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, 0603	0603
28	R11, R12	2	649	RT0603BRD07649RL	Yageo America	RES, 649, 0.1%, 0.1 W, 0603	0603
29	R13, R36, R37	3	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R16, R17	2	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
31	R19, R20	2	1.00k	RT0603DRE071KL	Yageo America	RES, 1.00 k, 0.5%, 0.1 W, 0603	0603
32	R22	1	11.8k	RC0603FR-0711K8L	Yageo	RES, 11.8 k, 1%, 0.1 W, 0603	0603
33	R23	1	7.87k	RC0603FR-077K87L	Yageo	RES, 7.87 k, 1%, 0.1 W, 0603	0603
34	R30, R33	2	10	ESR03EZPF10R0	ROHM	10 Ohms ±1% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	0603
35	R35	1	33	RC0603FR-0733RL	Yageo	RES, 33.0, 1%, 0.1 W, 0603	0603
36	U1	1		TLV74033PDBVR	Texas Instruments	300-mA low-dropout (LDO) regulator with foldback current limit 5-SOT-23 - 40 to 125	SOT23-5
37	U2	1		REF2033AIDDCR	Texas Instruments	Low-Drift, Low-Power, Dual-Output VREF and VREF/2 Voltage Reference, DDC0005A (SOT-23-T-5)	DDC0005A
38	U3	1		AMC1035D	Texas Instruments	Delta-Sigma Modulator with Bipolar Input and Reference Output, D0008A (SOIC-8)	D0008A
39	U4	1		TMCS1123B3QDVGR	Texas Instruments	TMCS1123B3QDVGR	SOICW10
40	U5	1		ADS7043IRUGR	Texas Instruments	Ultra-Low Power, Ultra-Small Size, 12-Bit, 1-MSPS, SAR ADC, RUG0008A (X2QFN-8)	RUG0008A
41	U6	1		SN74LVC1G17DCKT	Texas Instruments	Single Schmitt-Trigger Buffer, DCK0005A, SMALL T&R	DCK0005A
42	C8, C11	0	68pF	C0603C680J5GACTU	Kemet	CAP, CERM, 68 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
43	C19, C21	0	30pF	06035A300JAT2A	AVX	CAP, CERM, 30 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
44	R10	0	2.37k	RG1608P-2371-B-T5	Susumu Co Ltd	RES, 2.37 k, 0.1%, 0.1 W, 0603	0603
45	R27	0	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
46	R29	0	1.00Meg	MCT06030C1004FP500	Vishay/Beyschlag	RES, 1.00 M, 1%, 0.125 W, 0603	0603
47	R31, R34	0	1.18k	RT0603BRD071K18L	Yageo America	RES, 1.18 k, 0.1%, 0.1 W, 0603	0603

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