

# Bill of Materials

TI DESIGNS

TIDM-TWOPHASEMETER-I2040

Line	Qty	Value	Device	Parts	Vendor #	Notes
1	5	2x1 Header 0.1	JP1E	ACT, REACT, ISO_ACT, ISO_REACT, JMP1	609-3469-ND	
2	14	HEADER0.05	JP2E	FSEL1, FSEL2, FSEL3, JTAG_SEL1, JTAG_SEL2, JTAG_SEL3, JTAG_SEL4, JTAG_SEL5, JTAG_SEL6, UART, JTG_PWR1, JTG_PWR2, PWR1, PWR2	609-3464-ND	
3	4	4x1 Header 0.1	JP4E	DGND2, DVCC2, GND_AFE, VCC_AFE	609-3262-ND	
4	2	5x1 Header 0.1	JP5E	COMMS_AFE, COMMS_APP	609-4303-ND	
5	2	ML14	ML14	JTAG2, J1	MHC14K-ND	
6	1	F09HP	F09HP	CON1	609-1485-ND	
7	2	0Ω	OR-JUMPA	JMP2, JMP3		Solder bridge to left side
8	1	DNP	M04SMD	JP2	DNP	
9	2	EM Male Connector	TFM-110-02-SM-D-A-K	RF3, RF4	TFM-110-02-SM-D-A-K	
10	2	BC860B/BC857B	BC857ASMD	T1, T2	568-6094-1-ND	Purchased from Samtech
11	1	USB connector	USB_RECEPTACLE	USB2	AE9925-ND	
12	1	Switch	10-XX	S4	SW400-ND	
13	2	4.7uF	C0603	C10, C42	445-3449-1-ND	
14	5	15nF	C0603	C12, C30, C34, C41, C56	445-1283-1-ND	
15	14	0.1uF	C0603	C1, C2, C6, C8, C21, C23, C25, C35, C37, C43, C45, C50, C52, C55	445-1316-1-ND	
16	1	2.2nF DNP	C0603	C24	445-1309-1-ND	
17	1	DNP	C0805	C26	DNP	
18	1	2.2nF DNP	C0603	C27	DNP	
19	2	12pF	C0603	C28, C29	445-1270-1-ND	
20	2	470nF	C0603	C3, C46	445-3454-1-ND	
21	1	150uF	CPOL-EUE2-5	C36	P14374-ND	
22	1	4.7uF/400V	CPOL-USE5-10.5	C38	399-6097-ND	
23	2	10pF	C0603	C39, C40	445-1269-1-ND	
24	1	0.01uF	C0603	C4	445-1311-1-ND	
25	8	10uF	CPOL-USCT3216	C5, C7, C15, C20, C22, C32, C44, C51	399-3685-1-ND	

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26	2	0.1uF	C0805	C53, C54	445-6957-1-ND	
27	4	0.047uF	C0603	C57, C61, C62, C63	445-1313-1-ND	
28	1	2.2uF	C1206	C58	445-1382-1-ND	
29	1	220uF/100V	CPOL-USE5-13	C59	P5598-ND	
30	1	0.22uF/305VAC	C15/8	C60	495-4351-ND	
31	1	2.2uF	C0603	C64	587-2983-1-ND	
32	12	47pF	C0603	C9, C11, C13, C14, C16, C17, C18, C19, C31, C33, C47, C48	445-1277-1-ND	
33	5	LL103A	D	D1, D2, D3, D4, D7	LLSD103ADICT-ND	
34	3	SMAJ5.0CA	SMAJ	D13, D32, D33	478-7058-1-ND	
35	1	1N4004	1N4004	D5	1N4007-E3/54GICT-ND	
36	1	1N4754	1N4754	D6	1N4754AVSCT-ND	
37	1	B150	DIODE-DO214BA	D8	P65MB150A-E3/52GICT-ND	
38	12	1N4148	1N4148SOD80C	D9, D10, D11, D12, D22, D23, D24, D25, D26, D27, D28, D29	DNP	
39	1	SMAJ5.0ABCT	DIODE-DO214AC	ZD3	SMAJ5.0ABCT-ND	
40	1	TPD4E004	TPD4E004	IC7	296-23618-1-ND	
41	1	ISO742ADR	ISO7220ADR	ISO1	296-21952-1-ND	
42	2	ISO7421FE	ISO7221A	ISO2, ISO3	296-21955-1-ND	
43	2	PS2501-1-A	PS2501-1-A	OK1, OK2	PS2501-1A-ND	
44	1	HCTC_XTL_4	HCTC_XTL_4	Q1	X801-ND	
45	1	CUI_XR	CUI_XR	U\$2	102-1801-ND	
46	1	F66XX---PZ100	F66XX---PZ100	U1	296-29470-1-ND	
47	2	PS8802	PS8802SO08	U2, U5	PS8802-1-F3-AXCT-ND	
48	1	MSP430i2041PW	MSP430I2040XPW	U3		
49	1	TPS5401_DGQ_10	TPS5401_DGQ_10	U4	296-28092-1-ND	
50	1	ASE	ASE	X1	DNP	
51	1	XT1	CM200T	XT1	X1045-ND	
52	1	ELLCTV	ELLCTV	L3	PCD1759CT-ND	
53	4	1uH	L-US08050805	L4, L5, L6, L7	P0.0ACT-ND	
54	6	BLM21BD121SN1D	L-USL2012C	L8, L9, L15, L16, L17, L18	P0.0GCT-ND	
55	1	TI_160SEG_LCD	TI_160SEG_LCD	LCD1	Custom-Made	
56	1	Red	LED3MM	LED_REACT	511-1249-ND	
57	1	Green	LED3MM	LED_ACT	511-1247-ND	
58	1	0Ω	R0805	R1	P0.0ACT-ND	
59	2	DNP	R0603	R10, R11	DNP	
60	6	330kΩ	R0603	R12, R13, R38, R41, R42, R44	P330KGCT-ND	
61	2	47kΩ	R0603	R14, R61	P47KGCT-ND	
62	12	1KΩ	R0603	R2, R17, R18, R19, R20, R21, R43, R47, R72, R73, R75, R76	P1.0KGCT-ND	
63	2	DNP	R0603	R22, R33	DNP	
64	2	VARISTORCU4032K	VARISTORCU4032K	R24, R26	495-1467-1-ND	
65	1	1MΩ	R0603	R25	P1.0MGCT-ND	
66	2	1kΩ	R0805	R29, R36	P1.0KACT-ND	
67	1	10Ω	R0603	R3	P10GCT-ND	

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68	1	10k $\Omega$	R0805	R30	P10KACT-ND	
69	1	1.5k $\Omega$	R0805	R31	P1.5KACT-ND	
70	1	220 $\Omega$	R0805	R32	P220ACT-ND	
71	1	68 $\Omega$	R0805	R37	P68ACT-ND	
72	2	2.2k $\Omega$	R0805	R39, R40	P2.2KACT-ND	
73	20	0 $\Omega$	R0603	R4, R15, R16, R23, R34, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R105, R106, R107, R108	P0.0GCT-ND	
74	2	100 $\Omega$	R0603	R45, R50	P100GCT-ND	
75	2	2.7k $\Omega$	R0603	R46, R53	P2.7KGCT-ND	
76	1	1.8M $\Omega$	R0603	R49	P1.8MGCT-ND	
77	1	S20K275	S20K275	R5	495-1417-ND	
78	1	59k $\Omega$	R0603	R51	P59.0KHCT-ND	
79	2	332k $\Omega$	R0603	R52, R55	P332KHCT-ND	
80	1	560 $\Omega$ /3W	R-EU_0414/5V	R54	P560W-3TR-ND	
81	1	51 $\Omega$	R0603	R56	P51GCT-ND	
82	1	316k $\Omega$	R0603	R57	P316KHCT-ND	
83	1	100k $\Omega$	R0603	R58	P100KGCT-ND	
84	1	1.4k $\Omega$	R0603	R6	P1.40KHCT-ND	
85	2	27 $\Omega$	R0603	R7, R35	P27GCT-ND	
86	1	33k $\Omega$	R0603	R9	P33KGCT-ND	
87	3	13 $\Omega$	R0603	RB1, RB2, RB3	P13GCT-ND	
88	1	20K $\Omega$	R0603	R8	P20KDBCT-ND	

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