

TIDM-1007 REV B Bill of Materials



Item #	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package/Reference
1	PCB100	1		TIDM-1007	Printed Circuit Board		
2	C100, C101, C102, C103	4	220uF	EKMW451VSN22M1P40S	Chem-Con	CAP, AL, 220 uF, 450 V, +/- 20%, TH	D224,44mm
3	C104, C105	2	0.047uF	GRM322R72J473K0W01L	MuRata	CAP, CERM, 0.047 uF, 630 V, +/- 10%, X7R, 1210	1210
4	C106, C107, C108, C109, C110, C111, C112, C113, C126	3	1uF	B5603185105M002	TDK	CAP, CERM, 1 uF, 500 V, +/- 20%, B56031, AEC-Q200 Grade 0, 6.8x47.85mm	6.8x47.85mm
5	C107, C108, C112, C113	4	220pF	DE1B3RA221KNMAND1F	MuRata	CAP, CER 220PF 250V RAD	D6x74mm
6	C109, C110	2	0.33uF	B3292C-3333AM	TDK	CAP, Film, 0.33 uF, 630 V, +/- 20%, TH	B32923, 15mm
7	C111, C118, C121, C124, C130, C131, C133	7	0.1uF	GRM155R7U104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	0402
8	C114	1	2.2uF	89324005034	Würth Elektronik	CAP, Film, 2.2 uF, 275 V, +/- 10%, TH	26x15mm
9	C115, C119, C123, C132	4	1uF	GRM155R6J105KE26D	MuRata	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	0603
10	C116, C125, C134, C139, C140	5	1000pF	0603SA102KAT2A	AVX	CAP, CERM, 1000 pF, 50 V, +/- 10%, COGNP0, 0603	0603
11	C120	1	1000pF	GRM188R71C102KA01D	MuRata	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	0603
12	C122	1	1uF	0805YD105MA72A	AVX	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0805	0805
13	C127, C128	2	1000pF	GRM155R6J102KA01D	MuRata	CAP, CERM, 1000pF, 6.3V, +/-10%, X5R, 0402	0402
14	C129	1	0.022uF	GRM155R7D1223KA01D	MuRata	CAP, CERM, 0.022uF, 6.3V, +/-10%, X7R, 0402	0402
15	C135, C137	2	10uF	0805YD106MA72A	AVX	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0805	0805
16	C138	1	0.01uF	C260331035RAC1J1	Kemet	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
17	C138, C600, C605, C615, C616	5	1uF	C1608XR1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
18	C601, C604, C607, C611, C612, C613, C617	7	0.01uF	GRM155R7U103KA01D	MuRata	CAP, CERM, 0.01uF, 6.3V, +/-10%, X7R, 0402	0402
19	C602	1	0.1uF	GRM155R71C104KASD0	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
20	C603	1	0.1uF	GRM155R6J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402
21	C608, C609, C610	3	470pF	CGA2B2X7R1H147K050BA	TDK	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
22	C609	1	0.047uF	C100X0R1A473K050BA	TDK	CAP, CERM, 0.047 uF, 10 V, +/- 10%, X5R, 0402	0402
23	C614	1	47pF	GRM155R6J1E47DJA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, COGNP0, 0402	0402
24	D100, D104	2	800V	LS16-13F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
25	D101, D103	2	30V	STP5130A	STMicroelectronics	Diode, Schottky, 30 V, 1 A, SMA	SMA
26	D102	1	600V	D25X890-7000	Shindengen	Diode, Switching-Bridge, 600 V, 3.5 A, TH	SS
27	D105	1	12V	LM82469T1G	CN Semiconductor	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
28	D106	1	100V	BAS316, 115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
29	D107	1	600V	MLRA160T3G	CN Semiconductor	Diode, Ultrafast, 600V, 1A, SMA	SMA
30	F100	1		IS25200 M9P	Littelfuse	Fuse, 20 A, 250 VAC, 80 VDC, TH	8x1, SMT
31	H100, H101	2		MAX3076	Analog	MAX, CLIP, 10-220	10-220
32	J100	1		703W-00/54	Qualtek Electronics Corporation	AC, Receptacle, 10A 250VAC	20X50X28.7mm
33	J101, J102, J103	3		0448120024	Molex	Receptacle, 2.54mm, 6x1, Gold, TH	Receptacle, 2.54mm, 6x1, TH
34	J104	1		282856-3	TE Connectivity	Receptacle, 3x1, 5mm, RA, TH	Receptacle, 3x1, 5mm, RA, TH
35	J600	1		HSEC8-160-D1-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
36	J601, J602, J603	3		DF59-35-21(51)	Hirose Electric Co. Ltd.	Receptacle, 2mm, 3x1, Gold, Natural, SMT	Receptacle, 2mm, 3x1, SMT
37	K100	1		875B-1CC-F-S-12VDC	SONG CHUAN	Relay, SPDT ( 1 Form C), 16A, 12 VDC, TH	21x16mm
38	L100, L101, L102	3		G164005F	GCI Technologies	Inductor, Toroid, 0.066 ohm, TH	D42, 5mm
39	L103	1	7mH	7448051507	Würth Elektronik	COMMON MODE CHOKE	37x23mm
40	L104	1	12mH	7448050102	Würth Elektronik	CMC, 12mH, 10A, 3.3V, TH	37x23mm
41	Q100, Q101	2	660V	STY145N65M5	STMicroelectronics	MOSFET, N-CH, 660V, 138A, MAX247	TO-247
42	Q102	1	60V	2N7002E11G	CN Semiconductor	MOSFET, N-CH, 60V, 0.28A, SOT-23	SOT-23
43	R100, R101, R102, R109, R110, R111, R112, R113, R120, R121, R123, R602, R605, R607	9	348k	RT8058RD07348K	Yageo America	RES, 348k ohm, 0.1%, 0.125W, 0805	0805
44	R103, R114	2	10.0	CRCW060510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
45	R104, R115	2	4.99k	ERJ-4EKF4991V	Panasonic	RES, 4.99 k, 1%, 0.125 W, 0805	0805
46	R105, R106, R107, R108, R109, R110, R111, R112, R113, R120, R130, R131	12	330k	CRCW1206330K1NEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
47	R116	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
48	R117	1	12.7k	CRCW040212K7FKED	Vishay-Dale	RES, 12.7k ohm, 1%, 0.063W, 0402	0402
49	R118, R120	2	150	CRCW1206150R1NEA	Vishay-Dale	RES, 150, 5%, 0.25 W, 1206	1206
50	R122	1	10.0k	RC0603FR-0710K	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
51	R124	1	5.49k	CRCW0402549FKED	Vishay-Dale	RES, 5.49k ohm, 1%, 0.063W, 0402	0402
52	R125	1	330k	CRCW0402330K1NEA	Vishay-Dale	RES, 330k ohm, 5%, 0.063W, 0402	0402
53	R126	1	200	CRCW0603200R1KEA	Vishay-Dale	RES, 200 ohm, 1%, 0.1W, 0603	0603
54	R127, R128	2	1.0k	CRCW04021K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
55	R600, R603, R606, R630	4	1.40k	CRCW04021400FKED	Vishay-Dale	RES, 1.40k ohm, 1%, 0.063W, 0402	0402
56	R601, R606	2	3.57k	CRCW0402357FKED	Vishay-Dale	RES, 3.57 k, 1%, 0.063 W, 0402	0402
57	R604	1	1.0k	CRCW04021K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
58	R605	1	7.50k	CRCW06037500FKEA	Vishay-Dale	RES, 7.50 k, 1%, 0.125 W, 0603	0603
59	R610	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
60	R611	1	33.2	CRCW0402332FKED	Vishay-Dale	RES, 33.2, 1%, 0.063 W, 0402	0402
61	R614, R621, R625, R626	4	0	CRCW04020000ZKEA	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
62	R616, R617	2	7.50k	CRCW04027500FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, 0402	0402
63	R618, R620, R624	3	4.99k	CRCW0402499FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
64	R622, R623, R627, R628, R629	5	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
65	R631, R632, R633	3	9.31k	CRCW0402931FKED	Vishay-Dale	RES, 9.31 k, 1%, 0.063 W, 0402	0402
66	RT100	1	50	895751B0120A070	TDK	Thermistor, NTC, 50 ohm, 25%, D12.5xH16.5mm	D12.5xH16.5mm
67	RT101	1	50 ohm	895751B0120A070	TDK	Thermistor, NTC, 50 ohm, 25%, D12.5xH16.5mm	D12.5xH16.5mm
68	RV100	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
69	TP100, TP101	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
70	TP102, TP103	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
71	TP104, TP105, TP106, TP107, TP108, TP109, TP110, TP111, TP112, TP600, TP601, TP602, TP603, TP604, TP605, TP606, TP607, TP608, TP609	19	0312-0-15-15-34-27-10-0		Mil-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
72	U100, U102, U104	3		ACS722LCTR-10AB-T	Allegro Microsystems Inc	High Accuracy, Galvanically Isolated Current Sensor IC, SOC-8	SOIC-8
73	U101	1		ACS716KLATR-12CB-NL-T	Allegro Microsystems Inc	SENSOR CURRENT HALL 12.5A AC/DC	SOIC, 16-Leads, Body 10.3x7.5mm, Pitch 1.27mm
74	U103	1		TLV71333PODBVRO1	Texas Instruments	Capacitor-Free, 150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A	DBV0005A
75	U105	1		UCC27214D	Texas Instruments	High-Speed (A, 600V) High-Voltage Gate Driver Device, D0014A	D0014A
76	U800	1		SN74LVC1G3157DRYR	Texas Instruments	SINGLE-POLE DOUBLE-THROW ANALOG SWITCH, DRY0006A	DRY0006A
77	U601	1		OPA2376AIDG4	Texas Instruments	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Bfr)	D0008A
78	R132, R133, R134	0	0	CRCW06030000ZKEA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
79	R612, R615	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
80	R613	0	4.87k	ERA-2AB4871X	Panasonic	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
81	R619	0	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
82	U602	0		ISO7B31DWR	Texas Instruments	High-Performance, 8000 VPK Reinforced Triple Digital Isolator, DW0016B	DW0016B

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