Variant: 001
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TID #: TIDM-01000

TIDM-01000 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDM-01000	Any	Printed Circuit Board	
2	C1, C6	2	1800pF	GRM1557U1A182JA01D	MuRata	CAP, CERM, 1800 pF, 10 V, +/- 5%, U2J, 0402	0402
3	C2	1	0.018uF	GRM155R71C183KA01D	MuRata	CAP, CERM, 0.018 uF, 16 V, +/- 10%, X7R, 0402	0402
4	C3	1	0.01uF	06031C103MAT2A	AVX	CAP, CERM, 0.01 uF, 100 V, +/- 20%, X7R, 0603	0603
5	C4, C5	2	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
6	C7, C10, C14	3	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
7	C8, C11	2	2700pF	GRM155R71H272KA01D	MuRata	CAP, CERM, 2700 pF, 50 V, +/- 10%, X7R, 0402	0402
8	C9	1	0.027uF	GRM155R71A273KA01D	MuRata	CAP, CERM, 0.027 uF, 10 V, +/- 10%, X7R, 0402	0402
9	C12	1	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	0402
10	C13	1	47uF	GRM188R60J476ME15D	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 0603	0603
11	C15	1	0.1uF	885012105001	Wurth Elektronik	CAP, CERM, 0.1 uF, 6.3 V, +/- 20%, X5R, 0402	0402
12	C17	1	0.22uF	GRM155R60J224KE01D	MuRata	CAP, CERM, 0.22 uF, 6.3 V, +/- 10%, X5R, 0402	0402
13	D1, D5	2	100V	BAT41KFILM	STMicroelectronics	Diode, Schottky, 100 V, 0.2 A, SOD-523	SOD-523
14	D2	1	36V	SM6T36CA	STMicroelectronics	Diode, TVS, Bi, 36 V, 64.3 Vc, SMB	SMB
15	D3, D4	2	40V	ZHCS350TA	Diodes Inc.	Diode, Schottky, 40 V, 0.35 A, SOD-523	SOD-523
16	J1	1		282834-2	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	Terminal Block, 2x1, 2.54mm, TH
17	J2, J4	2		JMP-36-30X40SMT	Any	Jumper, SMT	shorting jumper, SMT
18	J3	1		M22-5330405	Harwin	Header, 2mm, 4x1, Gold, Black, R/A, SMT	Header, 2mm, 4x1, R/A, SMT
19	J5	1		FTSH-102-01-F-DV	Samtec	Header, 1.27mm, 2x2, Gold, SMT	Header, 1.27mm, 2x2, SMT
20	Q1	1	80 V	BCP56,115	NXP Semiconductor	Transistor, NPN, 80 V, 1 A, SOT-223	SOT-223
21	R1	1	100	ERA-3AEB101V	Panasonic	RES, 100, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
22	R2, R4, R5, R6	4	4.12k	CRCW04024K12FKED	Vishay-Dale	RES, 4.12 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
23	R3	1	3.24k	CRCW04023K24FKED	Vishay-Dale	RES, 3.24 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R7	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R8, R9	2	100	MCS0402MD1000BE100	Vishay/Beyschlag	RES, 100, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
26	R10	1	100k	RG1005P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.063 W, 0402	0402
27	R11	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R12	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R14	1	10.0k	RT0402BRD0710KL	Yageo America	RES, 10.0 k, .1%, .0625 W, 0402	0402
30	S1	1		RS-032G05A3-SM RT	C&K Components	Switch, Tactile, SPST-NO, 0.05A, 12V, SMD	SPST, 6x3.5mm
31	U1	1		TPS7A1633DRBR	Texas Instruments	60V, 5-uA Iq, 100-mA, Low-Dropout Voltage Regulator with Enable and Power Good, DRB0008B (VSON-8)	DRB0008B
32	U2	1		ADS1120IRVAR	Texas Instruments	Low-Power, Low-Noise, 16-Bit ADC for Small Signal Sensors, RVA0016A (VQFN-16)	RVA0016A
33	U3	1		MSP430FR2355TRHAR	Texas Instruments	Mixed-Signal Microcontroller, RHA0040E (VQFN-40)	RHA0040E

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