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TIDA-01403 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01403	Any	Printed Circuit Board	
2	BA1, BA2, BA3, BA4	4		3267	Pomona Electronics	Standard Banana Jack, Uninsulated	Pomona_3267
3	C1, C2, C4, C9, C10, C22, C23, C24, C31, C32, C33, C42	12	10uF	EMK212BB7106MG-T	Taiyo Yuden	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 0805	0805
4	C3, C8, C13, C14, C20, C29, C34, C36, C37, C38, C39, C41, C43, C44, C45, C46, C47, C48, C49, C51, C52	21	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
5	C5, C17, C25, C40	4	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0402	0402S
6	C6, C11	2	22uF	LMK316AB7226KL-TR	Taiyo Yuden	CAP, CERM, 22 µF, 10 V, +/- 10%, X7R, 1206	1206
7	C7, C28, C55	3	10uF	593D106X9016C2TE3	Vishay-Sprague	CAP, TA, 10 µF, 16 V, +/- 10%, 0.45 ohm, SMD	6032-28
8	C12, c21	2	4.7uF	CL05A475MO5NUNC	Samsung Electro-Mechanics	CAP, CERM, 4.7 µF, 16 V, +/- 20%, X5R, 0402	0402
9	C15	1	13pF	GRM1555C1H130JA01D	MuRata	CAP, CERM, 13 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
10	C16	1	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0402	0402
11	C18, C19	2	4.7pF	GRM1555C1E4R7CA01D	MuRata	CAP, CERM, 4.7 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
12	C26, C27	2	33pF	885012005043	Wurth Elektronik	CAP, CERM, 33 pF, 25 V,+/- 5%, C0G/NP0, 0402	0402
13	C35	1	56pF	GRM1555C1H560JA01D	MuRata	CAP, CERM, 56 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
14	C50, C53, C54	3	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
15	D1, D2	2	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603
16	DA1, DA3	2	40V	SS14HE3_A/H	Vishay-Semiconductor	Diode, Schottky, 40 V, 1 A, AEC-Q101, SMA	SMA
17	DA2	1	30V	DB3X316F0L	Panasonic	Diode, Schottky, 30 V, 0.1 A, SOT-23	SOT-23
18	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
19	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
20	J1, J3	2		0901200122	Molex Connector Corporation	Header, 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
21	J2, J4, J5	3		GRPB042VWVN-RC	Sullins Connector Solutions	Header, 1.27mm, 4x2, TH	Header, 1.27mm, 4x2, TH
22	J6	1		TSW-103-07-G-D	Samtec	Header, 100mil, 3x2, Gold, TH	3x2 Header
23	J7	1		QSH-040-01-F-D-DP-A	Samtec	Socket, 40x2, Gold, SMD	SMD, 40x2 Position
24	L1, L3, L6, L7, L10	5	1500 ohm	742792097	Wurth Elektronik	Ferrite Bead, 1500 ohm @ 100 MHz, 1 A, 0805	0805
25	L2, L4, L5, L11	4	600 ohm	MMZ1005B601CTD25	TDK	Ferrite Bead, 600 ohm @ 100 MHz, 0.2 A, 0402	0402
26	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"H x 0.200"W
27	R1, R17, R32	3	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, 0603	0603
28	R2, R3	2	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, 0402	0402
29	R4, R9	2	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
30	R5, R19, R21, R22, R25, R27	6	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
31	R6, R23	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
32	R7, R8, R10, R11	4	1.00k	ERA-2AEB102X	Panasonic	RES, 1.00 k, 0.1%, 0.063 W, 0402	0402
33	R12, R13	2	130	CRCW0402130RFKED	Vishay-Dale	RES, 130, 1%, 0.063 W, 0402	0402
34	R14, R16	2	3.0k	CRCW04023K00JNED	Vishay-Dale	RES, 3.0 k, 5%, 0.063 W, 0402	0402
35	R15	1	2.0k	CRCW04022K00JNED	Vishay-Dale	RES, 2.0 k, 5%, 0.063 W, 0402	0402
36	R18	1	10.0k	MCR01MRTF1002	Rohm	RES, 10.0 k, 0.1%, 0.063 W, 0402	0402
37	R20, R24, R26	3	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
38	R28, R29	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
39	R30, R33, R35	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
40	R31, R34, R36	3	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
41	R37, R38	2	22	EXB-2HV220JV	Panasonic	RES, 22, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1
42	S1, S2, S3, S4	4		142-0711-821	Johnson	SMA JACK 50 OHM EDGE MNT, SMT	SMA JACK EDGE MNT, SMT
43	SH-J1, SH-J2	2	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
44	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5	5		M50-1900005	Harwin	CONN SHUNT 1.27MM BLACK	
45	T1	1		ADT1-1WT+	Minicircuits	RF Transformer, 75 ohm, 0.4 to 800 MHz, SMT	CD542
46	TP1, TP2, TP4, TP5, TP7	5		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
47	TP3, TP6	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
48	U1	1		TPS71750DSET	Texas Instruments	Single Output High PSRR LDO, 150 mA, Fixed 5 V Output, 2.5 to 6.5 V Input, with Low IQ, 6-pin WSON (DSE), -40 to 125 degC, Green (RoHS & no Sb/Br)	DSE0006A
49	U2	1		OPA2626IDGKR	Texas Instruments	High-Speed, High-Precision, Low-Distortion 16-Bit and 18-Bit Analog-to-Digital Converter (ADC) Drivers, DGK0008A (VSSOP-8)	DGK0008A
50	U3	1		THS4551IRUNR	Texas Instruments	Low Power, Precision, 160MHz, Fully Differential Amplifier, RUN0010A	RUN0010A
51	U4	1		TPS71718DSET	Texas Instruments	Single Output High PSRR LDO, 150 mA, Fixed 1.8 V Output, 2.5 to 6.5 V Input, with Low IQ, 6-pin WSON (DSE), -40 to 125 degC, Green (RoHS & no Sb/Br)	DSE0006A
52	U5	1		ADS4142IRGZR	Texas Instruments	14-Bit, 65-MSPS, Ultra Low-Power ADC, RGZ0048D (VQFN-48)	RGZ0048D
53	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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