

Variant: 001
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TIDA-01003 REV E4 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-01003	Any	Printed Circuit Board	
2	C1	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C17, C41	3	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
4	C3, C12, C35, C38	4	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
5	C4, C19, C23, C25, C27, C28	6	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
6	C5, C8, C11	3	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
7	C6, C9	2	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C7, C10, C13, C16, C20, C24, C26, C29, C40	9	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0402	0402
9	C14	1	4.7uF	JMK107BB7475MA-T	Taiyo Yuden	CAP, CERM, 4.7 uF, 6.3 V, +/- 10%, X7R, 0603	0603
10	C15, C39	2	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
11	C18, C22	2	4.7uF	CL10B475KQ8NQC	Samsung Electro-Mechanics America, Inc	CAP CER 4.7UF 6.3V 10% X7R 0603	0603 (1608 Metric)
12	C21	1	0.047uF	CGA2B3X7R1H473K050BB	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
13	C30	1	10uF	CGA5L3X5R1H106K160AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206_190	1206_190
14	C31	1	22uF	CL21B226MQQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X7R, 0805	0805
15	C32	1	10uF	CL21B106KOQNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	0805
16	C33	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	0805
17	C34	1	4.7uF	CGA4J3X5R1H475M125AB	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0805	0805
18	C36	1	0.1uF	C1005X7R1E104K050BB	TDK Corporation	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0402	0402 (1005 Metric)
19	C37, C42	2	1uF	LMK107B7105KAHT	Taiyo Yuden	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
20	FID4	1		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
21	J1	1		59S10H-40ML5-Z	Rosenberger	Connector, HF, 50 Ohm, TH	SMA Connector
22	L1, L7, L8, L9	4	1000 ohm	BLM15AX102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.35 A, 0402	0402
23	L3	1	4.7uH	CBC3225T4R7MR	Taiyo Yuden	Inductor, Wirewound, 4.7 uH, 1.01 A, 0.1 ohm, SMD	3.2x2.5x2.5mm
24	L4	1	100uH	CBC3225T101MR	Taiyo Yuden	Inductor, Wirewound, 100 uH, 0.27 A, 1.4 ohm, SMD	3.2x2.5x2.5mm
25	L10	1	4.7uH	NRV2010T4R7MGF	Taiyo Yuden	Inductor, Wirewound, Ferrite, 4.7 uH, 0.76 A, 0.384 ohm, SMD	2X2mm
26	L11	1	2.2uH	MLZ2012M2R2HTD25	TDK	Inductor, Multilayer, Ferrite, 2.2 uH, 0.4 A, 0.16 ohm, AEC-Q200 Grade 1, SMD	0805
27	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
28	R1, R9	2	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
29	R2, R15, R16	3	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
30	R3, R6	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
31	R4, R5, R7, R8	4	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
32	R10	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
33	R12	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
34	R13	1	33	CRCW040233R0JNED	Vishay-Dale	RES, 33 ohm, 5%, 0.063W, 0402	0402
35	R17	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
36	R18	1	4.70k	CRG0402F4K7	TE Connectivity	RES, 4.70 k, 1%, 0.063 W, 0402	0402
37	U1	1		DS90UB913ATR1V1TQ1	Texas Instruments	DS90UB913A-Q1/DS90UB914A-Q1 25 to 100 MHz 10/20-Bit FPD-Link III Serializer and Deserializer, RTV0032A	RTV0032A
38	U2	1		AS0140	ON Semiconductor	1MP+ISP Single Package Solution, BGA130	BGA, 8.5x8.5mm, 130 Balls
39	U3	1		LM53600NQDSXRQ1	Texas Instruments	Synchronous Buck Regulator for 650mA Space Constraint Applications, DSX0010A	DSX0010A
40	U4	1		LP5907QMF2.8Q1	Texas Instruments	Automotive 250-mA, Ultra-Low-Noise, Low-IQ LDO, DBV0005A (SOT-5)	DBV0005A
41	U5	1		TPS62261TDRVRQ1	Texas Instruments	2.25-MHz 600-mA STEP-DOWN CONVERTER, DRV0006A	DRV0006A
42	Y1	1		ASDMB-48.000MHZ-LY-T	Abracon Corporation	OSC, 48MHz, 1.8 to 3.3V, SMD	2.5x2mm
43	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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