

TIDA-00573USB REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-00573USB	Any	Printed Circuit Board	
2	3.3V	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	C1, C2, C3, C4	4	0.47uF	GRM319R71C474KA01D	MuRata	CAP, CERM, 0.47 μ F, 16 V, +/- 10%, X7R, 1206	1206
4	C7, C8, C9, C10	4	1200pF	GRM188R71H122KA01D	MuRata	CAP, CERM, 1200 pF, 50 V, +/- 10%, X7R, 0603	0603
5	C21, C22	2	47pF	GRM1555C1E470JA01D	MuRata	CAP, CERM, 47pF, 25V, +/-5%, C0G/NP0, 0402	0402
6	C24	1	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0402	0402
7	C25	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0402	0402
8	C26, C31, C43, C52, C53, C54, C55, C56, C57	9	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
9	C38	1	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10 μ F, 35 V, +/- 10%, X7R, 1206	1206
10	C39	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
11	C40	1	4.7uF	GRM32ER71H475KA88L	MuRata	CAP, CERM, 4.7 μ F, 50 V, +/- 10%, X7R, 1210	1210
12	C41	1	0.082uF	08055C823KAT2A	AVX	CAP, CERM, 0.082 μ F, 50 V, +/- 10%, X7R, 0805	0805
13	C42	1	2200pF	GRM2165C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
14	C44	1	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 μ F, 10 V, +/- 10%, X5R, 1206	1206
15	C51	1	1uF	C1005X5R0J105M	TDK	CAP, CERM, 1uF, 6.3V, +/-20%, X5R, 0402	0402
16	C58	1	10uF	C1608X5R1A106M	TDK	CAP, CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
17	C70, C71, C72	3	470uF	EEU-FR1V471B	Panasonic	CAP, AL, 470 μ F, 35 V, +/- 20%, TH	10x16mm
18	C511, C512, C521, C522, C531, C532, C541, C542	8	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 μ F, 25 V, +/- 10%, X7R, 0603	0603
19	D1, D5	2	Red	SML-P12UTT86	Rohm	LED, Red, SMD	LED, 1x2x.6mm
20	D2	1	Orange	SML-P12DTT86	Rohm	LED, Orange, SMD	Orange LED
21	D3	1	Blue	SMLP12BC7TT86	Rohm	LED, Blue, SMD	Blue LED
22	D4	1	Green	SML-P12PTT86	Rohm	LED, Green, SMD	LED, 1x2x.6mm
23	GND	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
24	GND_I2C	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
25	H1, H2, H3, H4	4		MPMS 003 0005 PH	B&F Fastener Supply	MACHINE SCREW PAN PHILLIPS M3 5mm	Screw M3 Phillips head
26	H5, H6, H7, H8	4		24434	Keystone	Standoff, Hex, 12mm, M3, Aluminum	Aluminum M3 12mm Hex Standoff
27	J1, J2	2		SJ-3523-SMT	CUI Inc.	Audio Jack, 3.5mm, Stereo, R/A, SMT	Audio Jack SMD
28	J3, J4, J7	3		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
29	J5	1		ED555/8DS	On-Shore Technology	Terminal Block, 3.5mm, 8-Pos, TH	Terminal Block, 3.5mm, 8-Pos, TH
30	J8	1		ED555/4DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 4-Pos, TH	14x8.2x6.5mm
31	J9	1		DX4R205JJAR1800	JAE Electronics	Connector, Receptacle, Micro-USB Type AB, R/A, Bottom Mount SMT	Connector, USB Micro AB
32	L1	1	10uH	DFEG10040D-100M	Toko	Inductor, Shielded, 10 μ H, 7.2 A, 0.027 ohm, SMD	10.8x10mm
33	L2	1	300 ohm	NFZ2MSM301SN10L	MuRata	Ferrite Bead, 300 ohm @ 100 MHz, 3.1 A, 0806	0806
34	Q1	1	0.3V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
35	R1, R2, R3, R4, R5, R6, R7, R8	8	499	CRCW0805499RFKEA	Vishay-Dale	RES, 499, 1%, 0.125 W, 0805	0805
36	R11, R12, R13, R14	4	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
37	R21	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0k ohm, 1%, 0.063W, 0402	0402

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38	R22	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50k ohm, 1%, 0.063W, 0402	0402
39	R23, R24	2	27.4	CRCW040227R4FKED	Vishay-Dale	RES, 27.4 ohm, 1%, 0.063W, 0402	0402
40	R25	1	3.09k	CRCW04023K09FKED	Vishay-Dale	RES, 3.09k ohm, 1%, 0.063W, 0402	0402
41	R26, R29	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
42	R31, R32, R33, R35	4	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
43	R34	1	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, 0603	0603
44	R36	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
45	R62	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
46	R63, R64	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
47	S1	1		G12AP	NKK Switches	Switch, Toggle, SPDT 1Pos, TH	7 X 11 X4.5 mm
48	SCL, SDA	2	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
49	U1	1		24LC512-I/ST	Microchip	EEPROM, 512KBIT, 400KHZ, 8TSSOP	TSSOP-8
50	U3	1		TL760M33QKVURQ1	Texas Instruments	Single Output Automotive LDO, 500 mA, Fixed 3.3 V Output, 3.8 to 26 V Input, 3-pin PFM (KVU), -40 to 125 degC, Green (RoHS & no Sb/Br)	KVU0003A
51	Y1	1		625L3I006M00000	CTS Electrocomponents	Oscillator, 6MHz, 3.3V, SMD	2.5x1x2.5mm
52	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
53	J6	0		PPTC142LFBN-RC	Sullins Connector Solutions	Receptacle, 2.54mm, 14x2, Tin, TH	Receptacle, 2.54mm, 14x2, TH
54	R61	0	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
55	U2	0	TAS1020B PFB	TAS1020BPFB	TI	IC, USB Streaming Controller	PQFP48