

TIDA-00752 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-00752	Any	Printed Circuit Board	
C1, C9, C10, C11, C15	5	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0402	0402
C2	1	4.7uF	0603ZD475KAT2A	AVX	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X5R, 0603	0603
C3, C4	2	10pF	500R07S100JV4T	Johanson Technology	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C5	1	2200pF	GRM155R70J222KA01D	MuRata	CAP, CERM, 2200pF, 6.3V, +/-10%, X7R, 0402	0402
C6, C8	2	10uF	C2012X7R1A106K125AC	TDK	CAP, CERM, 10 μ F, 10 V, +/- 10%, X7R, 0805	0805
C12, C13	2	0.22uF	GRM155R61A224KE19D	MuRata	CAP, CERM, 0.22 μ F, 10 V, +/- 10%, X5R, 0402	0402
C14	1	0.47uF	C1005X5R1A474K050BB	TDK	CAP, CERM, 0.47 μ F, 10 V, +/- 10%, X5R, 0402	0402
C16	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C17	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 μ F, 10 V, +/- 10%, X7R, 0603	0603
C18	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 μ F, 16 V, +/- 10%, X7R, 0402	0402
C19	1	10uF	EMK212BB7106MG-T	Taiyo Yuden	CAP, CERM, 10 μ F, 16 V, +/- 20%, X7R, 0805	0805
D1	1	Green	150060VS75000	Würth Elektronik eiSos	LED, Green, SMD	LED_0603
D2	1	Super Red	150060SS75000	Würth Elektronik eiSos	LED, Super Red, SMD	LED_0603
D3	1	20V	SBR0220T5-7-F	Diodes Inc.	Diode, Schottky, 20 V, 0.2 A, SOD-523	SOD-523
D4	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6V, 500mW, SOD-123	SOD-123
D5, D7	2	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D6	1	5.1V	D3Z5V1BF-7	Diodes Inc.	Diode, Zener, 5.1 V, 400 mW, SOD-323F	SOD-323F
J1	1		48037-2200	Molex	Connector, Plug, USB Type A, R/A, Top Mount SMT	Edge mount USB A CONN
J2	1		850-10-004-10-001101	Preci-Dip	Header, 50mil, 4x1, Gold, TH	Header, 4x1, 50mil, TH
Q1, Q5	2	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q2, Q3, Q4	3	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R1, R18, R21	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R2	1	1.40k	ERJ-2RKF1401X	Panasonic	RES, 1.40 k, 1%, 0.1 W, 0402	0402
R3, R4	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
R5, R9	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R6, R7	2	27	CRCW040227R0JNED	Vishay-Dale	RES, 27, 5%, 0.063 W, 0402	0402
R8	1	2.0k	CRCW04022K00JNED	Vishay-Dale	RES, 2.0 k, 5%, 0.063 W, 0402	0402
R10	1	1M	CRCW04021M00JNED	Yageo	RES, 1M ohm, 5%, 0.063W, 0402	0402
R11	1	33.0	CRCW060333R0FKEA	Vishay-Dale	RES, 33.0, 1%, 0.1 W, 0603	0603
R12	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33k ohm, 5%, 0.063W, 0402	0402
R13	1	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
R14	1	560	RC0603JR-07560RL	Yageo America	RES, 560, 5%, 0.1 W, 0603	0603
R15	1	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R16	1	249	CRCW2512249RFKEG	Vishay-Dale	RES, 249, 1%, 1 W, 2512	2512
R17	1	11k	CRCW040211K0JNED	Vishay-Dale	RES, 11 k, 5%, 0.063 W, 0402	0402
R19	1	10.0	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
R20	1	110k	CRCW0402110KJNED	Vishay-Dale	RES, 110 k, 5%, 0.063 W, 0402	0402
R22	1	22k	CRCW040222K0JNED	Vishay-Dale	RES, 22 k, 5%, 0.063 W, 0402	0402
R23	1	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, 0402	0402
S1	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
T1	1	475uH	760390015	Würth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm

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U1	1		TPD2E001DRLR	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
U2	1		MSP430F5528IRGC	Texas Instruments	Mixed Signal MicroController, RGC0064B	RGC0064B
U3	1		SN6505BDBVR	Texas Instruments	LOW-NOISE 1A TRANSFORMER DRIVERS FOR ISOLATED POWER SUPPLIES, DBV0006A	DBV0006A
U4	1		LMT01LPG	Texas Instruments	0.5°C Accurate 2-Pin Digital NTC or PTC Thermistor Replacement, LPG0002A	LPG0002A
Y1	1		CSTCR4M00G15L99-R0	MuRata	Resonator, 4MHz, 39pF SMD	4.5x1.2x2 mm
C7, C20	0	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190

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