

TIDA-01568 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C6, C7, C11, C12, C16, C17, C21, C22, C25, C155	11	10uF	GRM188R61A106MAALD	MuRata	CAP, CERM, 10 µF, 10 V,+/- 20%, X5R, 0603	0603
C2	1	2200pF	GCM155R71H222KA37D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C3	1	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0402	0402
C5, C10, C15, C20, C24	5	6.8pF	GRM0335C1H6R8BA01D	MuRata	CAP, CERM, 6.8 pF, 50 V,+/- 2%, C0G/NP0, 0201	0201
C26, C27	2	18pF	C1005C0G1H180J050BA	TDK	CAP, CERM, 18 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402
C30, C32, C33, C34, C35, C36, C37, C39, C41, C42, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C61, C62, C63, C64, C65, C66, C67, C68, C72, C75, C76, C77, C78, C79, C80, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C102, C103, C104, C105, C106, C107, C108, C109, C111, C112, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C128, C129, C130, C134, C135, C136, C138, C140,	87	0.1uF	C1005X5R1A104K050BA	TDK	CAP, CERM, 0.1 µF, 10 V,+/- 10%, X5R, 0402	0402
C31	1	1uF	885012105012	Würth Elektronik	CAP, CERM, 1 µF, 10 V,+/- 20%, X5R, 0402	0402
C38	1	1000pF	06035A102KAT2A	AVX	CAP, CERM, 1000 pF, 50 V,+/- 10%, C0G/NP0, 0603	0603
C40	1	0.1uF	885012105010	Würth Elektronik	CAP, CERM, 0.1 µF, 10 V,+/- 20%, X5R, 0402	0402

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C43, C44, C60, C73, C74, C101, C127, C131, C133, C137, C145	11	10uF	0805YD106KAT2A	AVX	CAP, CERM, 10 µF, 16 V,+/- 10%, X5R, 0805	0805
C69, C70, C71, C113	4	1uF	GRM155C81A105KA12D	MuRata	CAP, CERM, 1 µF, 10 V,+/- 10%, X6S, 0402	0402
C114	1	1000pF	885012205061	Würth Elektronik	CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0402	0402
C132	1	2.2uF	GRM033R60J225ME47D	MuRata	CAP, CERM, 2.2 µF, 6.3 V,+/- 20%, X5R, 0201	0201
C144	1	0.1uF	GCM155R71A104KA55D	MuRata	CAP, CERM, 0.1 µF, 10 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C146	1	1uF	GCM155C71A105KE38D	MuRata	CAP, CERM, 1 µF, 10 V,+/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
C147, C148, C157, C158	4	10pF	04025U100CAT2A	AVX	CAP, CERM, 10 pF, 50 V,+/- 2.5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C150	1	4.7uF	C1608X6S1C475K080AC	TDK Corporation	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X5R, 0603	0603
C151	1	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C152, C153	2	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 µF, 10 V,+/- 20%, X5R, 0603	0603
D2, D3, D4, D5	4		5988170107F	Lite-On Inc	LED GREEN CLEAR 0805 SMD	
D7, D9	2	Red	LTST-C191KRKT	Lite-On	LED, Red, SMD	LED_0603
D8	1	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED_0603
FB1, FB2, FB3, FB5, FB7, FB8, FB11	7		73L3R10J	Laird-Signal Integrity Products	FERRITE 800MA 150 OHM 0805 SMD	
J1	1		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
J2	1		61300611121	Samtec Inc	CONN HEADER 6POS, VERTICAL, .100 STR TIN	
L1, L2, L3, L4, L5	5	2.2uH	DFE252010F-2R2M=P2	MuRata	Inductor, Shielded, 2.2 µH, 2.3 A, 0.082 ohm, SMD	2.5x1.2x2.0mm
L6	1	1.5uH	SRP4020TA-1R5M	MuRata	Inductor, Wirewound, Ferrite, 1.5 µH, 4.5 A, 0.0168 ohm, SMD	4.9x4.9x4.3mm
L7, L8, L9, L10	4	3.6nH	LQP15MN3N6B02D	MuRata	Inductor, Film, 3.6 nH, 0.17 A, 0.5 ohm, SMD	SMD, 2-Leads, Body 1.1x 0.6mm
P2	1		FTR-110-03-G-D-06	Samtec Inc	Dual Line Header 10x2pin Tin	
P3	1		87520-0010BLF	FCI	CONN RCPT USB TYPE A R/A PCB	
P8, P9	2		PPPC232LFBN-RC	Sullins Connector Solutions	CONN HEADER FMAL 46PS.1" DL GOLD	
P10	1		5025700893	Molex Inc	CONN MICRO SD R/A PUSH-PUSH SMD	
Q1, Q2	2		DMC564040R	Toshiba	TRANS PREBIASED DUAL NPN SOT363	
Q3, Q4	2	50V	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
R3, R6, R12	3	200k	RC0201FR-07200KL	Yageo America	RES, 200 k, 1%, 0.05 W, 0201	0201
R4	1	100k	ERJ-1GEF1003C	Panasonic Electronic Components	RES, 100 k, 1%, 0.05 W, 0201	0201
R5	1	100k	CR0402-FX-1003GLF	Bourns Inc.	RES, 100 k, 0.5%, 0.063 W, 0402	0402
R7, R14, R159, R160, R161, R162	6	160k	RC0201FR-07160KL	Yageo America	RES, 160 k, 1%, 0.05 W, 0201	0201
R8	1	220k	CRCW0402220KJNED	Vishay-Dale	RES, 220 k, 5%, 0.063 W, 0402	0402
R9, R15	2	210k	RC0201FR-07210KL	Yageo America	RES, 210 k, 1%, 0.05 W, 0201	0201
R10	1	46.4k	RC0201FR-0746K4L	Yageo America	RES, 46.4 k, 1%, 0.05 W, 0201	0201
R13	1	240k	RC0201FR-07240KL	Yageo America	RES, 240 k, 1%, 0.05 W, 0201	0201
R16	1	174k	RC0201FR-07174KL	Yageo America	RES, 174 k, 1%, 0.05 W, 0201	0201

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R18, R35, R36, R86, R87, R88, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R123, R124, R125, R126, R127, R128, R146, R171, R172	34	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R19, R26	2	33.0	ERJ-2RKF33R0X	Panasonic	RES, 33.0, 1%, 0.1 W, 0402	0402
R20, R21, R22, R23, R24, R25, R27, R31, R33, R34, R37, R38, R40, R41, R42, R139, R151, R152, R153, R154, R155, R156, R157	23	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R28, R29, R30, R76, R77, R78, R79, R149, R228	9	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R32, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R80, R81, R82, R83, R131, R132	39	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R39, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R129, R130, R135, R136, R137, R138	20	33	CRCW040233R0JNED	Vishay-Dale	RES, 33, 5%, 0.063 W, 0402	0402
R75	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R89	1	240	CRCW0402240RJNED	Vishay-Dale	RES, 240, 5%, 0.063 W, 0402	0402
R122	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, 0402	0402

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R133, R134	2	680	CRCW0402680RJNED	Vishay-Dale	RES, 680, 5%, 0.063 W, 0402	0402
R140, R141, R142, R143, R144, R145	6	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
R147	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
R148	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
R158	1	1.00	CRCW08051R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.125 W, 0805	0805
S1, S2	2		KMR231GLFS	C&K Components	Microminiature Tact Switch for SMT	
U1, U2, U5	3		TLV62568DRLR	Texas Instruments	1-A High Efficiency Step-Down Converter in SOT Package, DRL0006A (SOT-OTHER-6)	DRL0006A
U3	1		TLV62569PDRLT	Texas Instruments	2-A High Efficiency Step-Down Converter in SOT Package, DRL0006A (SOT-OTHER-6)	DRL0006A
U4	1		TLV62568PDRLR	Texas Instruments	1-A High Efficiency Step-Down Converter in SOT Package, DRL0006A (SOT-OTHER-6)	DRL0006A
U7	1		AM3358BZCZA100	Texas Instruments	Sitara Processor, ZCZ0324A (NFBGA-324)	ZCZ0324A
U8	1		SN74LVC1G06DCKR	Texas Instruments	IC INVERTER SINGLE 1INPUT SC705	
U9	1		SN74LVC2G241DCUR	Texas Instruments	IC BUFF/DVR TRI-ST DL 8VSSOP	
U10	1		TPS2051BDR	Texas Instruments	IC 1.5A PWR DIST SWITCH 8-SOIC	
U11, U12	2		TPD4S012DRYR	Texas Instruments	ESD 4channel USB Interface	
U13	1		MT41K256M16TW-107 XIT:P	Micron Technology	DDR2 SDRAM 2Gb (256Mx8)	
U14	1		MTFC4GACAAAM-1M WT	Micron Technology	Flash Card 2G-byte 3.3V MultiMedia Card 153-Pin WFBGA	
U15	1		24LC32AT-I/OT	Microchip Technology	IC EEPROM 32KBIT 400KHZ SOT23-5	
U16	1	Value	WL1837MODGIMOCR	Texas Instruments	Imported	
U17, U18	2		TXS0108ERGYR	Texas Instruments	8-Bit Bidirectional Voltage-Level Shifter For Open-Drain And Push-Pull Application, RGY0020A (VQFN-20)	RGY0020A
U19, U20	2		RECE.20279.001E.01	Used in BOM report		eg: 0603, used in PnP report
U21	1		LM3881MM/NOPB	Texas Instruments	Power Sequencer, 8-pin MSOP, Pb-Free	MUA08A
U22	1		TLV803MDBZR	Texas Instruments	3-Pin Voltage Supervisors with Active-Low, Open-Drain Reset, DBZ0003A (SOT-23-3)	DBZ0003A
Y2	1		7A-24.000MAAJ-T	TXC CORPORATION	CRYSTAL 24.000MHZ 18PF SMD	
Y4	1		ASE-24.576MHZ-C-T3	Abracon Corporation		
Y5	1		7XZ-32.768KDA-T	TXC Corporation	Oscillator, 32.768 kHz, 1.8 V, SMD	3.2x2.5mm

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