

TIDA-01579 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-01579	Any	Printed Circuit Board	
C1, C10, C13, C16, C20	5	0.01uF	0402ZC103KAT2A	AVX	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0402	0402
C2, C11, C14, C17, C21	5	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
C3, C12, C15, C18, C22	5	47uF	GRM21BR61A476ME15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	0805
C4	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
C5, C6, C25, C27, C32, C37, C42, C45	8	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
C7	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
C8, C9	2	1000pF	C0603X5R1E102K030BA	TDK	CAP, CERM, 1000 pF, 25 V, +/- 10%, X5R, 0201	0201
C19	1	1uF	GRM155R61A105ME15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0402	0402
C23, C41	2	120pF	GRM033R71E121KA01D	MuRata	CAP, CERM, 120 pF, 25 V, +/- 10%, X7R, 0201	0201
C24, C29, C36	3	6.8pF	GRM0335C1H6R8BA01D	MuRata	CAP, CERM, 6.8 pF, 50 V, +/- 2%, C0G/NP0, 0201	0201
C26, C28, C33, C38, C43	5	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C30, C31, C34, C35, C39, C40	6	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
C44	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
D1	1	40V	NSR0240V2T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.25 A, SOD-523	SOD-523
FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1, J2, J3, J4, J5, J6, J7, J8, J10, J11, J14, J15	12		2059-302/998-403	WAGO	Terminal Block, 3mm, 2-pole, Tin, SMD	Terminal Block, 3mm, 2-Pole, Body 7.4x5.9mm
J9, J12	2		RSM-110-02-L-D	Samtec	Receptacle, 1.27mm, 10x2, Gold with Tin tail, SMT	Receptacle, 1.27mm, 10x2, SMT
J13	1		HTSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	Header, 100mil, 5x1, TH
L1, L2, L3, L4, L5	5	600 ohm	74279220601	Würth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 2.1 A, 0805	0805
L6, L10	2	1uH	74479275210	Würth Elektronik	Inductor, Shielded, 1 uH, 1.8 A, 0.078 ohm, SMD	2x1.25mm
L7, L8, L9	3	2.2uH	DFE252012P-2R2M=P2	MuRata Toko	Inductor, Shielded, 2.2 uH, 2.6 A, 0.07 ohm, SMD	1008
L11	1	4.7uH	DFE252012PD-4R7M	MuRata Toko	Inductor, Shielded, Metal Composite, 4.7 uH, 1.4 A, 0.165 ohm, AEC-Q200 Grade 1, SMD	1008
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

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R1, R2, R3, R4, R5, R6, R8, R9, R10, R11, R12, R14, R15, R16, R17, R18, R20, R21, R22, R25, R26, R27, R28, R29, R44, R45, R48, R50, R51, R56, R57, R58, R62, R66, R70	35	100k	RC0201FR-07100KL	Yageo America	RES, 100 k, 1%, 0.05 W, 0201	0201
R7, R13, R19, R33, R52	5	0.33	ERJ-2BQFR33X	Panasonic	RES, 0.33, 1%, 0.125 W, 0402	0402
R23, R24, R30, R31, R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R46, R47, R49	18	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
R53, R54, R59, R60, R63, R64, R67, R68, R71	9	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R55	1	453k	RC0201FR-07453KL	Yageo America	RES, 453 k, 1%, 0.05 W, 0201	0201
R61	1	200k	RC0201FR-7D200KL	Yageo America	RES, 200 k, 1%, 0.05 W, 0201	0201
R65	1	124k	RC0201FR-07124KL	Yageo America	RES, 124 k, 1%, 0.05 W, 0201	0201
R69	1	82.5k	RC0201FR-0782K5L	Yageo America	RES, 82.5 k, 1%, 0.05 W, 0201	0201
R72	1	2.20	RCS04022R20FKED	Vishay-Dale	RES, 2.20, 1%, 0.2 W, 0402	0402
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34	34		RCU-0C	TE Connectivity	PC Test Point, SMT	1.6x0.8mm
U1	1		TPS22976DPUR	Texas Instruments	5.5V, 6A, 14mΩ, Dual Load Switch with Adj. Rise Time & Optional QOD, DPU0014A (WSON-14)	DPU0014A
U2	1		TCA9535RTWR	Texas Instruments	Remote 16-Bit I2C and SMBus, Low-Power I/O Expander with Interrupt Output and Config Register, 1.65 to 5.5 V, -40 to 85 degC, 24-pin QFN (RTW), Green (RoHS & no Sb/Br)	RTW0024B
U3, U10	2		TPS62821DLCR	Texas Instruments	1A Step-Down Converter With 1% Accuracy, DLC0008A (VSON-HR-8)	DLC0008A
U4, U6, U8	3		TLV62568PDRL	Texas Instruments	1-A High Efficiency Step-Down Converter in SOT Package, DRL0006A (SOT-6)	DRL0006A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U5	1		TLV74228PDQNR	Texas Instruments	200-mA, Small Size, Low-Dropout Linear Voltage Regulator, DQN0004A (X2SON-4)	DQN0004A
U7, U9	2		TLV74218PDQNR	Texas Instruments	200-mA, Small Size, Low-Dropout Linear Voltage Regulator, DQN0004A (X2SON-4)	DQN0004A
U11	1		TPS61169DCKR	Texas Instruments	TPS61169 38-V High-Current Boost WLED Driver, DCK0005A (SOT-SC70-5)	DCK0005A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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