

TIDA-010961 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC81	1		TIDA-010961	Any	Printed Circuit Board	
2	3V3, 5V	2	Green	APT2012LZGCK	Kingbright	LED, Green, SMD	LED_0805
3	C1	1	2.2uF	C1210C225K1RAC7800	Kemet	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
4	C2	1	0.1uF	VJ1210Y104KBBAT4X	Vishay-Vitramon	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1210	1210
5	C3	1	1uF	LMK107B7105KAHT	Taiyo Yuden	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C4, C11	2	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, XSR, 0603	0603
7	C5, C17, C18, C22, C33	5	100nF	LMK063B3104KP-F	Taiyo Yuden	CAP CER 0.1UF 10V XSR 0201	0201
8	C6	1	10uF	ZRB15XC80J106ME05D	Murata	10uF ±20% 6.3V Ceramic Capacitor XBS 0402 (1005 Metric)	0402
9	C7	1	0.47uF	CL03A474KQ3NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.47 uF, 6.3 V, +/- 10%, XSR, 0201	0201
10	C8	1	1uF	CL03A105MP3NSNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 10 V, +/- 20%, XSR, 0201	0201
11	C9, C15, C28, C29	4	20pF	GRM1555C1E200JA01D	MuRata	CAP, CERM, 20 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
12	C10, C43, C63, C65	4	1000pF	CGA2B2X8R1H102K050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X8R, AEC-Q200 Grade 0, 0402	0402
13	C12	1	0.01uF	GRM033R60J103KA01D	MuRata	CAP, CERM, 0.01 uF, 6.3 V, +/- 10%, XSR, 0201	0201
14	C13, C21	2	10uF	KGM05CR51A106MH	KYOCERA AVX	10 uF ±20% 10V Ceramic Capacitor XSR 0402 (1005 Metric)	0402
15	C14, C23	2	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
16	C18, C20, C31, C32	4	200pF	GRM1555C1H201JA01D	MuRata	CAP, CERM, 200 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
17	C19	1	1uF	GRT155R70J105KE01D	Murata	1uF ±10% 6.3V Ceramic Capacitor X7R 0402 (1005 Metric)	0402
18	C24, C25, C26, C27, C34, C35, C36, C37	8	10pF	C0402C100K4GACTU	Kemet	CAP, CERM, 10 pF, 16 V, +/- 10%, COG, 0402	0402
19	C42, C44, C45, C64, C66, C67	6	1uF	TMK105BJ105MV-F	Taiyo Yuden	Ceramic Capacitor General Use 1uF ±20% 25V XSR 0402	0402
20	C47, C48, C49, C50, C68, C69, C70, C71	8	10nF	GRT155R71E103KE01J	Murata	Multi-Layer Ceramic Capacitor 10nF 25V X7R ±10% 0402 Paper T/R	0402
21	C55, C56, C57, C58, C76, C77, C78, C79	8	100pF	GRT1555C1E101JA02D	Murata	Multi-Layer Ceramic Capacitor 100pF 25V COG ±5% 0402 Paper T/R	0402
22	C60, C61	2	470pF	GRM1555C1E471JA01D	MuRata	CAP, CERM, 470 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
23	C80, C81	2	1800pF	GRM1557U1A182JA01D	MuRata	CAP, CERM, 1800 pF, 10 V, +/- 5%, U2J, 0402	0402
24	FB1	1		MPZ1005S121HT000	TDK	FERRITE BEAD 120 OHM 0402 1LN	0402
25	GND, PWR	2		S1751-46	Harwin	Test Lead clips and hooks, SMT	Test Point, Body 3.25x1.65mm
26	J1	1		GRPB031VWTC-RC	Sullins Connector Solutions	Header, 1.27mm, 3x1, Gold, SMT	Header, 1.27mm, 3x1, SMT
27	J2, J4, J5, J6	4		M50-3530242	Harwin	Connector Header Through Hole 2 position 0.050" (1.27mm)	HDR2
28	J3	1		TSW-106-07-G-D	Samtec	Header, 100mil, 6x2, Gold, TH	6x2 Header
29	L1, L2, L3, L4	4	1000 ohm	BLM15HG102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.25 A, 0402	0402
30	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 x 0.200 inch
31	R1	1	1	ERJ-6BQF1R0V	Panasonic	RES, 1 00, 1%, 0.333 W, AEC-Q200 Grade 1, 0805	0805
32	R2, R8, R13, R15, R16, R18, R19, R35	8	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
33	R3	1	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
34	R4	1	10.0k	PCF0402-12-10K0BT1	TT Electronics/IRC	RES, 10.0 k, 0.1%, 0.063 W, 0402	0402
35	R5	1	10.0k	TNPW060310K0BEEA	Vishay-Dale	RES, 10.0 k, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
36	R6, R10, R29, R30	4	5.00k	PNNM0402E5001B5T1	Vishay-Dale	RES, 5.00 k, 0.1%, 0.05 W, 0402	0402
37	R7	1	47.0k	RK73H1HTTC4702F	KOA Speer	RES, 47.0 k, 1%, 0.05 W, AEC-Q200 Grade 0, 0201	0201
38	R9	1	100k	RG1005P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.063 W, 0402	0402
39	R11, R12, R21, R23, R24, R26, R27, R28, R31, R32, R36, R37, R38, R39, R40, R41	16	10k	RT0402BRB0710KL	Yageo	10 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thin Film	0402
40	R14	1	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, .05 W, AEC-Q200 Grade 0, 0201	0201
41	R17, R20, R33, R34	4	500	RT0402FRE07500RL	Yageo	Resistor Thin Film 0402 500 Ohm ±1% 1/16W ±50ppm/°C Molded Paper T/R	0402
42	R22	1	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
43	R25	1	3.9k	CRCW04023K90JNED	Vishay-Dale	RES, 3.9 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
44	R49, R67	2	0	TLRZ1ETTB	KOA Speer	0 Ohms Jumper Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200, Current Sense Metal Element	0402
45	R50, R52, R63, R68, R70, R80	6	10k	RNCF0402DTE10K0	Stackpole Electronics	Res Thin Film 0402 10K Ohm 0.5% 0.1W ±25ppm/°C Molded SMD Paper T/R	0402
46	R51, R54, R56, R59, R60, R61, R69, R72, R74, R77, R78, R79	12	4.64	CRCW04024R64FKED	Vishay-Dale	RES, 4.64, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
47	U1	1		TPSM365R3RDNR	Texas Instruments	3-V to 65-V Input, 1-V to 13-V Output, 600-mA Synchronous Buck Converter Power Module in a HotRod QFN Package	QFN-FCMOD11
48	U2	1		MSPM0G3507SRHB	Texas Instruments	Mixed-Signal Microcontrollers with CAN-FD Interface, VQFN32	VQFN32
49	U3	1		TPS7095QDRVRQ1	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input LDO with Reverse Current Protection for Automotive, DRV0006A (WS0N-6)	DRV0006A
50	U4	1		TPS70933QDRVRQ1	Texas Instruments	150-mA, 30-V, 1-uA IQ Voltage Regulator with Enable, DRV0006A (WS0N-6)	DRV0006A
51	U5, U7	2		TLV9062IDSGR	Texas Instruments	10-MHz, Low-Noise, RRIO, CMOS Operational Amplifier for Cost-Sensitive Systems, DSG0008A (WS0N-8)	DSG0008A
52	U6	1		REF35330QDBVR	Texas Instruments	650-nA quiescent current, 12-ppm/°C drift, ultra-low-power precision voltage reference 6-SOT-23 -40 to 125	SOT23-6
53	U10, U11	2		LDC5072PWQ1	Texas Instruments	Inductive Position Sensor with Sin/Cos Interface, PW0016A (TSSOP-16)	PW0016A
54	R64, R81	0	10k	RNCF0402DTE10K0	Stackpole Electronics	Res Thin Film 0402 10K Ohm 0.5% 0.1W ±25ppm/°C Molded SMD Paper T/R	0402
55	R65, R82	0	4.64	CRCW04024R64FKED	Vishay-Dale	RES, 4.64, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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