

TIDA-01466 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC81	1		TIDA-01466	Any	Printed Circuit Board	
C1, C2, C29, C30, C57, C58	6	47uF	JMK212BBJ476MG-T	Taiyo Yuden	CAP, CERM, 47 μ F, 6.3 V, +/- 20%, X5R, 0805	0805
C3, C15, C35, C52	4	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0402	0402
C4, C31, C59	3	2700pF	GRM033R61A272KA01D	MuRata	CAP, CERM, 2700 pF, 10 V, +/- 10%, X5R, 0201	0201
C5, C38	2	10pF	C0603C100J5GACTU	Kemet	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C6, C33	2	0.039uF	GRM155R71A393KA01D	MuRata	CAP, CERM, 0.039 μ F, 10 V, +/- 10%, X7R, 0402	0402
C7, C34	2	180pF	CL21C181JBANNNC	Samsung	CAP, CERM, 180 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
C8, C41	2	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C9	1	110pF	GRM1885C1H111JA01D	MuRata	CAP, CERM, 110 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	5100pF	C0603C512J5GAC7867	Kemet	CAP, CERM, 5100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C11, C51	2	3900pF	GRM188R71E392KA01D	MuRata	CAP, CERM, 3900 pF, 25 V, +/- 10%, X7R, 0603	0603
C12, C36, C62	3	0.1uF	08053C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0805	0805
C13	1	47uF	C2012X5R1A476M125AC	TDK	CAP, CERM, 47 μ F, 10 V, +/- 20%, X5R, 0805	0805
C14, C37, C63	3	22uF	C1608X5R1A226M080AC	TDK	CAP, CERM, 22 μ F, 10 V, +/- 20%, X5R, 0603	0603
C16, C40, C64	3	0.1uF	GRM155R61A104KA01D	MuRata	CAP, CERM, 0.1 μ F, 10 V, +/- 10%, X5R, 0402	0402
C17, C19, C39, C42, C65, C68	6	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0805	0805
C18, C55	2	4.7uF	GRM21BR61E475MA12L	MuRata	CAP, CERM, 4.7 μ F, 25 V, +/- 20%, X5R, 0805	0805
C20, C21, C23, C43, C44, C48, C69, C70, C73	9	22uF	C2012JB1V226M125AC	TDK	CAP, CERM, 22 μ F, 35 V, +/- 20%, JB, 0805	0805
C22, C47, C72	3	0.1uF	C0805C104K4RACTU	Kemet	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0805	0805
C24, C46, C71	3	100uF	C3225X5R0J107M250AC	TDK	CAP, CERM, 100 μ F, 6.3 V, +/- 20%, X5R, 1210	1210
C25, C49, C74	3	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 μ F, 16 V, +/- 10%, X7R, 0603	0603
C26, C53, C67, C76, C82, C83, C85, C101	8	1uF	CL10B105KQ8NNNC	Samsung Electro-Mechanics	CAP, CERM, 1 μ F, 6.3 V, +/- 10%, X7R, 0603	0603
C27, C54, C77	3	4.7uF	CGB3B1X5R1A475K055AC	TDK	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X5R, 0603	0603
C28	1	220pF	CGA3E2C0G1H221J080AA	TDK	CAP, CERM, 220 pF, 20 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C32, C100	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C45	1	91pF	CL10C910JB8NNNC	Samsung	CAP, CERM, 91 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C50	1	3900pF	GRM188R71H392KA01D	MuRata	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0603	0603
C56	1	100uF	GRM31CD80J107ME39L	Murata	CAP, CERM, 100 μ F, 6.3 V, +/- 20%, X6T, 1206	1206_190
C60	1	0.047uF	GRM155R60J473KA01D	MuRata	CAP, CERM, 0.047 μ F, 6.3 V, +/- 10%, X5R, 0402	0402
C61	1	200pF	CL21C201JBANNNC	Samsung	CAP, CERM, 200 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
C66	1	0.1uF	0603ZC104KAT2A	AVX	CAP, CERM, 0.1 μ F, 10 V, +/- 10%, X7R, 0603	0603
C75	1	0.047uF	08055C473KAT2A	AVX	CAP, CERM, 0.047 μ F, 50 V, +/- 10%, X7R, 0805	0805
C78, C79, C80, C81, C90	5	0.01uF	GRM033R60J103KA01D	MuRata	CAP, CERM, 0.01 μ F, 6.3 V, +/- 10%, X5R, 0201	0201
C84	1	0.01uF	CGA1A2X7R1A103K030BA	TDK	CAP, CERM, 0.01 μ F, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0201	0201
C86, C91	2	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 μ F, 6.3 V, +/- 20%, X5R, 0603	0603
C87, C92, C95, C96	4	47uF	GRM21BR60J476ME15L	MuRata	CAP, CERM, 47 μ F, 6.3 V, +/- 20%, X5R, 0805	0805
C88, C89, C93, C94	4	10uF	GRM219R60J106KE19D	MuRata	CAP, CERM, 10 μ F, 6.3 V, +/- 10%, X5R, 0805	0805
C97	1	10uF	LMK212BJ106KD-T	Taiyo Yuden	CAP, CERM, 10 μ F, 10 V, +/- 10%, X5R, 0805	0805

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C98	1	1uF	GRM216R61A105KA01D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0805	0805
C99	1	22uF	JMK212BJ226KG-T	Taiyo Yuden	CAP, CERM, 22 µF, 6.3 V, +/- 10%, X5R, 0805	0805
C105	1	220uF	EKZE500ELL221MJ16S	Chemi-Con	CAP, AL, 220 µF, 50 V, +/- 20%, TH	D10xL16mm
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J2, J3, J4, J6, J7, J8	7		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J5	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
L1	1	5.6uH	SRP6540-5R6M	Bourns	Inductor, Shielded, Ferrite, 5.6 µH, 5.5 A, 0.038 ohm, SMD	Inductor, 7.2x4x6.5mm
L2, L4, L7	3	5.6uH	74437346056	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 5.6 µH, 3.6 A, 0.043 ohm, SMD	7.30x2.80x6.60mm
L3, L6, L8, L9, L10, L11	6	120 ohm	742792625	Würth Elektronik	Ferrite Bead, 120 ohm @ 100 MHz, 2 A, 0603	0603
L5	1	5.6uH	74439346056	Würth Elektronik	Inductor, Wirewound, Metal Composite, 5.6 µH, 6.9 A, 15 mohm, SMD	6.65x6.45mm
R1, R16, R19, R20, R24, R26, R37, R46, R47, R50, R68	11	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R2, R33, R72	3	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R3	1	2.4k	RC0402FR-072K4L	Yageo	RES, 2.4 k, 1%, 0.063 W, 0402	0402
R4, R35	2	97.6k	CRCW040297K6FKED	Vishay-Dale	RES, 97.6 k, 1%, 0.063 W, 0402	0402
R5, R28	2	3.09k	CRCW04023K09FKED	Vishay-Dale	RES, 3.09 k, 1%, 0.063 W, 0402	0402
R6, R30, R51, R69, R70, R71	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R7, R29	2	18.7k	CRCW040218K7FKED	Vishay-Dale	RES, 18.7 k, 1%, 0.063 W, 0402	0402
R8	1	2.94k	CRCW04022K94FKED	Vishay-Dale	RES, 2.94 k, 1%, 0.063 W, 0402	0402
R9, R31, R56	3	10.0k	RT0603DRE0710KL	Yageo America	RES, 10.0 k, 0.5%, 0.1 W, 0603	0603
R10, R32, R57	3	100k	RMCF0402FT100K	stackpole electronics limited	RES, 100 k, 1%, 0.063 W, 0402	0402
R11, R36, R58	3	127k	CRCW0402127KFKED	Vishay-Dale	RES, 127 k, 1%, 0.063 W, 0402	0402
R12, R38	2	3.57k	RG1608P-3571-B-T5	Susumu Co Ltd	RES, 3.57 k, 0.1%, 0.1 W, 0603	0603
R13, R44	2	64.9k	CRCW040264K9FKED	Vishay-Dale	RES, 64.9 k, 1%, 0.063 W, 0402	0402
R14, R45	2	51.1k	CRCW040251K1FKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, 0402	0402
R15, R39, R62	3	48.7k	CRCW040248K7FKED	Vishay-Dale	RES, 48.7 k, 1%, 0.063 W, 0402	0402
R17, R48	2	8.45k	CRCW04028K45FKED	Vishay-Dale	RES, 8.45 k, 1%, 0.063 W, 0402	0402
R18, R41, R65	3	2.87k	RG1608P-2871-B-T5	Susumu Co Ltd	RES, 2.87 k, 0.1%, 0.1 W, 0603	0603
R21, R42, R66	3	383k	CRCW0402383KFKED	Vishay-Dale	RES, 383 k, 1%, 0.063 W, 0402	0402
R22, R43, R67	3	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R23	1	221k	CRCW0603221KFKEA	Vishay-Dale	RES, 221 k, 1%, 0.1 W, 0603	0603
R25	1	147k	CRCW0603147KFKEA	Vishay-Dale	RES, 147 k, 1%, 0.1 W, 0603	0603
R27	1	470k	RT0603BRD07470KL	Yageo America	RES, 470 k, 0.1%, 0.1 W, 0603	0603
R34	1	4.02k	CRCW04024K02FKED	Vishay-Dale	RES, 4.02 k, 1%, 0.063 W, 0402	0402
R40	1	4.87k	CRCW04024K87FKED	Vishay-Dale	RES, 4.87 k, 1%, 0.063 W, 0402	0402
R49	1	2.61k	CRCW04022K61FKED	Vishay-Dale	RES, 2.61 k, 1%, 0.063 W, 0402	0402
R52	1	11.3k	CRCW040211K3FKED	Vishay-Dale	RES, 11.3 k, 1%, 0.063 W, 0402	0402
R53, R54, R55	3	100k	ERJ-6ENF1003V	Panasonic	RES, 100 k, 1%, 0.125 W, 0805	0805
R59, R60, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94	17	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R61	1	1.50k	RG1608P-152-B-T5	Susumu Co Ltd	RES, 1.50 k, 0.1%, 0.1 W, 0603	0603

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R73	1	105k	CRCW0402105KFKED	Vishay-Dale	RES, 105 k, 1%, 0.063 W, 0402	0402
R74, R75, R76, R77, R78	5	15.0	CRCW060315R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.1 W, 0603	0603
R79, R95, R96	3	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9	0		5016	Keystone	Test Point, Compact, SMT	Testpoint_Keystone_Compact
U1, U5	2		TPS54824RNVR	Texas Instruments	4.5-V to 17-V Input, 8-A Synchronous Step-Down Voltage Regulator, RNV0018B (VQFN-HR-18)	RNV0018B
U2, U4, U6	3		TPS54122QRHLRQ1	Texas Instruments	Dual Output, High Efficiency 3A Switcher + 3A Low Noise LDO for Automotive, RHL0024A (VQFN-24)	RHL0024A
U3	1		TPS259260DRCR	Texas Instruments	12V, 5A, 30mΩ eFuse with Adjustable +/-15% Accurate Current Limit, DRC0010J (VSON-10)	DRC0010J
U7	1		LM3881MM/NOPB	Texas Instruments	Power Sequencer, 8-pin MSOP, Pb-Free	MUA08A
U8, U9	2		TPS7A8400RGRR	Texas Instruments	High-Current (3 A), High-Accuracy (1%), Low-Noise (4.4 uVRMS), LDO Voltage Regulator, RGR0020A (VQFN-20)	RGR0020A
U10	1		TPS7A8300RGRR	Texas Instruments	2A, Low-Dropout Voltage Regulator for High Speed Communication Systems, RGR0020A (VQFN-20)	RGR0020A
U11	1		CDCLVC1106PWR	Texas Instruments	Low Jitter, 1:6 LVCMOS Fan-out Clock Buffer, PW0014A (TSSOP-14)	PW0014A
U12	1		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
C102, C103, C104	0	330pF	GRM1555C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R63, R64	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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