

TIDA-010957 REV Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC81	1		TIDA-010957	Any	Printed Circuit Board	
C1, C2, C3, C7, C8, C9	6	300µF	ALA7DA301CF550	KEMET	300 µF 550 V Aluminum Electrolytic Capacitors Radial, Can - Snap-In 567mOhm @ 100Hz 13000 Hrs @ 85°C	RADIAL
C4, C26, C259, C260	4	100uF	EEU-FM1E101	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, 0.13 ohm, TH	6.3x11.2mm
C5, C14, C29, C31, C32, C33, C35, C37, C38, C39, C41, C43, C44, C45, C48, C50, C51, C52, C59, C66, C73, C84, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C159, C160, C161, C162, C173, C174, C175, C176, C188_L1, C188_L2, C188_L3, C188_N, C189_L1, C189_L2, C189_L3, C189_N, C191_L1, C191_L2, C191_L3, C191_N, C196_L1, C196_L2, C196_L3, C196_N, C202_L1,	123	330pF	CGA3E2C0G1H331J080AA	TDK	Cap Ceramic 330pF 50V C0G 5% Pad SMD 0603 +125°C Automotive T/R	0603
C6, C151, C155	3	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
C10, C11, C12	3	3µF	B32774X1305K000	TDK	3 µF Film Capacitor 1200V (1.2kV) Polypropylene (PP), Metallized Radial	RADIAL
C13, C16, C27, C28, C30, C34, C36, C40, C42, C46, C47, C49, C53, C55, C56, C60, C62, C63, C67, C69, C70, C74, C76, C77, C81, C82, C88, C90, C91, C94, C107, C113, C114, C125, C138, C168_L1, C168_L2, C168_L3, C168_N, C186_L1, C186_L2, C186_L3, C186_N, C187_L1, C187_L2, C187_L3, C187_N, C190_L1, C190_L2, C190_L3, C190_N, C195_L1, C195_L2, C195_L3, C195_N, C200_L1,	111	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
C15	1	1uF	TMK107BJ105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603

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C17, C18, C19, C20, C21, C22	6	4.7µF	R523R447050P1M	KEMET	4.7 µF Film Capacitor 310V 630V Polypropylene (PP), Metallized Radial	RADIAL
C23, C216_L1, C216_L2, C216_L3, C216_N, C257, C258	7	220nF	C2225C224KBRACU	KEMET	Ceramic Capacitor, Multilayer, Ceramic, 630V, 10% +Tol, 10% -Tol, X7R, 15% TC, 0.22uF, Surface Mount, 2225	2225
C24, C25	2	4.7nF	R413F147050T1K	KEMET	Cap Film 0.0047uF 1500V PP 10% Dipped 10mm 125°C Bulk	RADIAL
C54, C57, C61, C64, C68, C71, C80, C87, C144, C145	10	2.2uF	EMK107BB7225KA-T	Taiyo Yuden	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
C58, C65, C72, C83, C86, C263	6	1000pF	CGA2B2C0G1H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C75, C78, C79, C89, C92, C93, C143, C194_L1, C194_L2, C194_L3, C194_N, C197_L1, C197_L2, C197_L3, C197_N, C198_L1, C198_L2, C198_L3, C198_N, C211_L1, C211_L2, C211_L3, C211_N, C220_L1, C220_L2, C220_L3, C220_N, C221_L1, C221_L2, C221_L3, C221_N, C234_L1, C234_L2, C234_L3, C234_N, C237_L1, C237_L2, C237_L3	55	22uF	GRM21BZ71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 0805	0805
C85	1	1000pF	GRM155R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
C108, C109, C110, C111, C112, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130	20	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C131, C133	2	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
C132, C142	2	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C134	1	2700pF	GRM188R72A272KA01D	MuRata	CAP, CERM, 2700 pF, 100 V, +/- 10%, X7R, 0603	0603
C135	1	3300pF	C0603X332K5RACTU	Kemet	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
C136, C149, C152, C261	4	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
C137	1	22pF	GRM1885C2A220JA01D	MuRata	CAP, CERM, 22 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C139, C140	2	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C141	1	10uF	EMK212BB7106KG-T	Taiyo Yuden	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	0805
C146	1	0.01uF	C0603C103K4RACTU	Kemet	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603	0603
C147, C150, C154	3	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C148, C153	2	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
C156, C158	2	68pF	C1005C0G1H680J050BA	TDK	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C157	1	4700pF	C0603X472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603

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C163_L1, C163_L2, C163_L3, C163_N, C165_L1, C165_L2, C165_L3, C165_N, C169_L1, C169_L2, C169_L3, C169_N, C171_L1, C171_L2, C171_L3, C171_N	16	10µF	GRM21BR61H106ME43L	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10uF, X5R, 15%, 20%, 50V	0805
C164_L1, C164_L2, C164_L3, C164_N, C166_L1, C166_L2, C166_L3, C166_N, C167_L1, C167_L2, C167_L3, C167_N, C170_L1, C170_L2, C170_L3, C170_N	16	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	0805
C172_L1, C172_L2, C172_L3, C172_N, C215_L1, C215_L2, C215_L3, C215_N	8	0.1uF	C1812X104KBRACU	Kemet	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1812	1812
C192_L1, C192_L2, C192_L3, C192_N, C208_L1, C208_L2, C208_L3, C208_N, C232_L1, C232_L2, C232_L3, C232_N, C249_L1, C249_L2, C249_L3, C249_N	16	10uF	GRT31CR61H106KE01L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 1, 1206	1206
C193_L1, C193_L2, C193_L3, C193_N, C210_L1, C210_L2, C210_L3, C210_N, C233_L1, C233_L2, C233_L3, C233_N, C250_L1, C250_L2, C250_L3, C250_N	16		8,85012E+11	Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 2.2nF, 50VDC	

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C199_L1, C199_L2, C199_L3, C199_N, C222_L1, C222_L2, C222_L3, C222_N, C239_L1, C239_L2, C239_L3, C239_N, C256_L1, C256_L2, C256_L3, C256_N	16		8,85012E+11	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 15nF, 25VDC	
C213_L1, C213_L2, C213_L3, C213_N	4	12µF	B32676G6126K000	TDK	Cap Film 12uF 630V PP 10% (42 X 28 X 42.5mm) Radial 0.0055 Ohm 100°C Bulk	RADIAL
C217_L1, C217_L2, C217_L3, C217_N	4	56nF	C2225C563KFRACU	KEMET	0.056 µF ±10% 1500V (1.5kV) Ceramic Capacitor X7R 2225 (5763 Metric)	2225
D1, D2, D19, D20, D21	5		KG DELLS1.22-JGKH-24	Osram Opto	Standard LEDs - SMD Green TOPLED E 1608	0603
D3, D17	2	60V	B160-13-F	Diodes Inc.	Diode, Schottky, 60 V, 1 A, SMA	SMA
D4, D6, D18	3	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
D5	1	30V	B330A-13-F	Diodes Inc.	Diode, Schottky, 30 V, 3 A, SMA	SMA
D7_L1, D7_L2, D7_L3, D7_N, D8_L1, D8_L2, D8_L3, D8_N, D9_L1, D9_L2, D9_L3, D9_N, D13_L1, D13_L2, D13_L3, D13_N, D14_L1, D14_L2, D14_L3, D14_N, D15_L1, D15_L2, D15_L3, D15_N	24		ZGL41-180A-E3/96	Vishay	Zener Diode 180 V 1 W ±5% Surface Mount DO-213AB (GL41)	GL41
D10_L1, D10_L2, D10_L3, D10_N, D11_L1, D11_L2, D11_L3, D11_N, D12_L1, D12_L2, D12_L3, D12_N, D16_L1, D16_L2, D16_L3, D16_N	16		APG1608SURKC/T	Kingbright	Red 630nm LED Indication - Discrete 2V 0603 (1608 Metric)	0603
F1, F2, F3, F4	4		SF-3812F2500T-2	Bourns	25 A 250 V AC 80 V DC Fuse Board Mount (Cartridge Style Excluded) Surface Mount 2-SMD, Square End Block	SMD2
FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB14_L1, FB14_L2, FB14_L3, FB14_N, FB15_L1, FB15_L2, FB15_L3, FB15_N, FB16	20		MH1608-601Y	Bourns	600 Ohms @ 100 MHz 1 Power, Signal Line Ferrite Bead 0603 (1608 Metric) 1A 200mOhm	0603
FB12, FB13, FB17, FB18	4		BLM15EX331SN1D	Murata	Chip Ferrite Bead, 0402, 330Ω @ 100MHz, 0.205Ω, 25%, 1.1A	0402
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
J1	1		6,18009E+11	Würth Elektronik	Receptacle, D-Sub, 9 Position, R/A, TH	Receptacle, D-Sub, 9 Position, R/A, TH
J2	1		FCR7350R	Cliff Electronic Components	Panel Socket, 24A, R/A, Gold, TH	Panel Socket, R/A, TH
J3, J5, J7	3		FCR7350N	CLIFF Electronic Components	Banana Test Connector, Socket, PCB Mount, 24 A, 1 kV, Gold Plated Contacts, Brown	CONN_BANANA_JACK
J4, J6, J21	3		22111031	Molex	Mini-Latch™ Wire-to-Board Header, Vertical, with Friction Ramp, 3 Circuits, Gold (Au) Plating	HDR3
J8, J9	2		FCR7350B	Cliff Electronic Components	Panel Socket, 24A, R/A, Gold, TH	Panel Socket, R/A, TH
J10	1		FCR7350G	CLIFF Electronic Components	Banana Test Connector, Socket, PCB Mount, 24 A, 1 kV, Gold Plated Contacts, Green	CONN_BANANA_JACK
J11, J14, J15, J17, J18	5		TSM-102-01-T-SV-P-TR	Samtec	Header, 100mil, 2x1, Tin, SMD	SMD, 2-Leads, Body 200x100mil
J12	1		HSEC8-160-01-L-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering

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J13	1		TSW-112-07-G-S	Samtec	Header, 100mil, 12x1, Gold, TH	12x1 Header
J16	1		PJ-002AH-SMT-TR	CUI Inc.	Power Jack, SMT	14.8x11x12.6mm
L1, L2, L5, L6	4	87uH	MAG-3002584	Bourns	Boost Inductor TIDA-010957	PTH8
L3	1		ACT45B-101-2P-TL003	TDK	100µH @ 100kHz 2 Line Common Mode Choke Surface Mount 5.8 kOhms @ 10MHz 150mA DCR 2Ohm	SMT_4MM5_3MM2
L4_L1, L4_L2, L4_L3, L4_N, L18_L1, L18_L2, L18_L3, L18_N, L20_L1, L20_L2, L20_L3, L20_N, L21_L1, L21_L2, L21_L3, L21_N	16	10uH	74404020100	Würth Elektronik	Inductor, 10 uH, 0.5 A, 0.85 ohm, SMD	2x1.6mm
L7, L9	2		74479763222	Würth Elektronik	WE-PMI SMT Power Multilayer Inductor, size 0603, 2.2uH, 0.8A, 375mOhm	
L8, L11_L1, L11_L2, L11_L3, L11_N, L13_L1, L13_L2, L13_L3, L13_N, L15_L1, L15_L2, L15_L3, L15_N, L17_L1, L17_L2, L17_L3, L17_N	17		74479763222	Würth Elektronik	WE-PMI SMT Power Multilayer Inductor, size 0603, 2.2uH, 0.8A, 375mOhm	
L10_L1, L10_L2, L10_L3, L10_N, L12_L1, L12_L2, L12_L3, L12_N, L14_L1, L14_L2, L14_L3, L14_N, L16_L1, L16_L2, L16_L3, L16_N	16	15uH	SDR0302-150ML	Bourns	Inductor, Drum Core, Ferrite, 15 uH, 0.65 A, 0.4 ohm, SMD	3x2.5x2.8mm
L12, L19	2		MAG-3002585	Bourns	4-Phase CMC	PTH8
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
MP1, MP2, MP3, MP4, MP5, MP6, MP7, MP8, MP9, MP10, MP11, MP12, MP13, MP14, MP15	16		9774025960R	Würth	WA-SMST SMT Steel Spacer, Ø3.3 Internal non Stop	STAND_OFF
Q1, Q2, Q3	3	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 22 A, DQK0006C (WSON-6)	DQK0006C
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18	18	510k	CRCW1206510KJNEA	Vishay-Dale	RES, 510 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R19, R25, R29, R30, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R79, R80, R146, R151, R156, R161, R165, R166, R167, R168, R176, R177, R178, R179, R180, R181, R182, R183, R195, R196, R197, R198, R293_L1, R293_L2, R293_L3, R293_N	49	33	ERJ-2RKF33R0X	Panasonic	RES, 33.0, 1%, 0.1 W, 0402	0402

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R20, R21, R22, R23, R24, R26, R27, R28, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R84, R86, R88, R225, R228, R334	43	0	RCS06030000Z0EA	Vishay-Dale	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
R81, R82, R233, R234, R235	5	680	RC0603JR-07680RL	Yageo	RES, 680, 5%, 0.1 W, 0603	0603
R83, R85, R87, R92	4	60Ω	PTCEL13R600LBE	Vishay Bcomponents	PTCEL Series 500 V 60 Ohm ±30 % Radial Inrush Current Limiter PTC Thermistor	RADIAL
R89, R90, R91, R94	4		IsoM5-275-B-L2	Bourns	5 kA Varistor 1 Circuit Through Hole Disc 17mm	RADIAL
R93, R217	2	499	CRCW0603499RFKEAC	Vishay-Dale	RES, 499, 1%, 0.1 W, 0603	0603
R95_L1, R95_L2, R95_L3, R95_N, R229_L1, R229_L2, R229_L3, R229_N, R230_L1, R230_L2, R230_L3, R230_N, R231_L1, R231_L2, R231_L3, R231_N	16	33.0k	RC0603FR-0733KL	Yageo	RES, 33.0 k, 1%, 0.1 W, 0603	0603
R96, R130, R131, R132, R133, R134, R135	7	100	ERJ-2RK1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
R97, R99, R105, R109, R113, R117, R121, R123, R129, R284_L1, R284_L2, R284_L3, R284_N, R287_L1, R287_L2, R287_L3, R287_N, R295_L1, R295_L2, R295_L3, R295_N, R298_L1, R298_L2, R298_L3, R298_N, R305_L1, R305_L2, R305_L3, R305_N, R308_L1, R308_L2, R308_L3, R308_N, R322_L1, R322_L2, R322_L3, R322_N, R325_L1,	41	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R98, R100, R102, R103, R106, R107, R110, R111, R114, R115, R118, R119, R122, R124, R126, R127, R139, R141, R145, R147, R150, R152, R155, R157, R160, R162, R331, R333	28	10.0k	MCS0402MD1002BE100	Vishay/Beyschlag	RES, 10.0 k, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R101, R108, R116, R125, R140	5	309	CRCW0402309RFKED	Vishay-Dale	RES, 309, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R104, R112, R120, R128	4	43.2k	RC0603FR-0743K2L	Yageo	RES, 43.2 k, 1%, 0.1 W, 0603	0603
R136, R143	2	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R137, R142	2	15.0k	ERA-2AEB153X	Panasonic	RES, 15.0 k, .1%, .063 W, AEC-Q200 Grade 0, 0402	0402
R138	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R144, R148, R149, R153, R154, R158, R159, R163	8	15.6k	RT0603BRD0715K6L	Yageo America	RES, 15.6 k, 0.1%, 0.1 W, 0603	0603
R164, R174, R175, R194, R332	5	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R169, R170, R171, R172, R173, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R199, R200, R201, R202, R203, R224, R330	22	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R204	1	470k	RC0603FR-07470KL	Yageo	RES, 470 k, 1%, 0.1 W, 0603	0603
R205, R209, R211, R219	4	47.0k	RC0603FR-0747KL	Yageo	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R206	1	1.10k	RC0603FR-0711K1L	Yageo	RES, 1.10 k, 1%, 0.1 W, 0603	0603
R207	1	5.60k	RC0603FR-075K6L	Yageo	RES, 5.60 k, 1%, 0.1 W, 0603	0603
R208	1	11.0k	RC0603FR-0711KL	Yageo	RES, 11.0 k, 1%, 0.1 W, 0603	0603
R210	1	2.00k	RC0603FR-072KL	Yageo	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R212	1	15.0k	RC0603FR-0715KL	Yageo	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R213	1	54.9k	RC0603FR-0754K9L	Yageo	RES, 54.9 k, 1%, 0.1 W, 0603	0603
R214	1	220k	RC0603FR-07220KL	Yageo	RES, 220 k, 1%, 0.1 W, 0603	0603
R215, R218	2	30.0k	RC0603FR-0730KL	Yageo	RES, 30.0 k, 1%, 0.1 W, 0603	0603
R216, R240, R245, R250	4	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R220, R221, R222, R223	4		FTR-K3AB012W-WG	FCL Components	Power Relay 12VDC 25A SPST-NO(30.1x15.7x23.3)mm THT	PTH_RELAY_30MM1 15MM7
R226, R227	2	59.7	RT0603DRE0759R7L	Yageo America	RES, 59.7, 0.5%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R232_L1, R232_L2, R232_L3, R232_N, R278_L1, R278_L2, R278_L3, R278_N, R279_L1, R279_L2, R279_L3, R279_N, R291_L1, R291_L2, R291_L3, R291_N, R292_L1, R292_L2, R292_L3, R292_N, R302_L1, R302_L2, R302_L3, R302_N, R303_L1, R303_L2, R303_L3, R303_N, R316_L1, R316_L2, R316_L3, R316_N, R317_L1,	36	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R236, R237, R238, R239, R241, R242, R243, R244, R246, R247, R248, R249	12	1M	RGV3216P-1004-B-T1	Susumu	1 MOhms $\pm 0.1\%$ 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Anti-Sulfur, Automotive AEC-Q200, High Voltage Thin Film	1206
R281_L1, R281_L2, R281_L3, R281_N, R282_L1, R282_L2, R282_L3, R282_N, R319_L1, R319_L2, R319_L3, R319_N, R320_L1, R320_L2, R320_L3, R320_N	16	100	CRCW1206100RFKEAHP	Vishay-Dale	RES, 100, 1%, 0.5 W, AEC-Q200 Grade 0, 1206	1206
R285_L1, R285_L2, R285_L3, R285_N, R296_L1, R296_L2, R296_L3, R296_N, R306_L1, R306_L2, R306_L3, R306_N, R323_L1, R323_L2, R323_L3, R323_N	16	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R286_L1, R286_L2, R286_L3, R286_N, R297_L1, R297_L2, R297_L3, R297_N, R307_L1, R307_L2, R307_L3, R307_N, R324_L1, R324_L2, R324_L3, R324_N	16	2.7k	CRCW06032K70JNEA	Vishay-Dale	RES, 2.7 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R288_L1, R288_L2, R288_L3, R288_N, R299_L1, R299_L2, R299_L3, R299_N, R309_L1, R309_L2, R309_L3, R309_N, R326_L1, R326_L2, R326_L3, R326_N	16	1.00k	RT0603DRE071KL	Yageo America	RES, 1.00 k, 0.5%, 0.1 W, 0603	0603
R289_L1, R289_L2, R289_L3, R289_N, R300_L1, R300_L2, R300_L3, R300_N, R310_L1, R310_L2, R310_L3, R310_N, R327_L1, R327_L2, R327_L3, R327_N	16	8.2k	RC0603JR-078K2L	Yageo	RES, 8.2 k, 5%, 0.1 W, 0603	0603
R290_L1, R290_L2, R290_L3, R290_N, R301_L1, R301_L2, R301_L3, R301_N, R311_L1, R311_L2, R311_L3, R311_N, R328_L1, R328_L2, R328_L3, R328_N	16	560	RC0603JR-07560RL	Yageo	RES, 560, 5%, 0.1 W, 0603	0603
R312_L1, R312_L2, R312_L3, R312_N, R313_L1, R313_L2, R313_L3, R313_N, R314_L1, R314_L2, R314_L3, R314_N	12	680k	TNPV0805680KBEEA	Vishay	680 kOhms \pm 0.1% 0.2W, 1/5W Chip Resistor 0805 (2012 Metric) Anti-Sulfur, Automotive AEC-Q200, High Voltage, Moisture Resistant Thin Film	0805
R315_L1, R315_L2, R315_L3, R315_N	4	8k	RT0603BRE078KL	Yageo	8 kOhms \pm 0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thin Film	0603
R329	1	200	CRCW0402200RJNED	Vishay-Dale	RES, 200, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP1, TP2, TP3, TP4, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP25, TP26, TP40	15		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5, TP39	2		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
U1	1		ISOTMP35BEDFQRQ1	Texas Instruments	Automotive ±1.5°C, 3-kVRMS Isolated Temperature Sensor With Analog Output With < 2 Seconds Response Time and 500VRMS Working	SOIC7
U2, U4, U5, U6	4		TMCS1126B9AQDVGR	Texas Instruments	80ARMS 500kHz Hall-effect current sensor with AFR, reference and ALERT 10-SOIC -40 to 125	SOIC10
U3	1		OPA4388IPWR	Texas Instruments	Zero-Drift Amplifier 4 Circuit Rail-to-Rail 14-TSSOP	TSSOP14
U7, U8, U9	3		AMC0330RDWVR	Texas Instruments	Automotive, Precision, ±1V Input Isolated Amplifiers With Single-Ended, Ratiometric Output	SOIC8
U10, U13	2		UCC33421DHAR	Texas Instruments	Ultra-Small, 1.5W, 5.0V, 5kVRMS Isolation, Industrial DC/DC Module	SSOP16
U11	1		AMC0381D	Texas Instruments	AMC0381D	SSOP15
U12	1		OPA2392DR	Texas Instruments	Precision, Low-Offset-Voltage, Low-Noise, Low-Input-Bias-Current, Rail-to-Rail I/O, e-trim™ Operational Amplifiers	SOIC8
U14	1		OPA4388IDR	Texas Instruments	Op Amp Quad Zero Drift Amplifier R-R I/O ±2.75V/5.5V 14-Pin SOIC T/R	SOIC14
U15, U16, U17, U18	4		SN74LVC126APWR	Texas Instruments	Quadruple Bus Buffer Gate with 3-State Outputs, PW0014A (TSSOP-14)	PW0014A
U19	1		TPS259474LRPWT	Texas Instruments	2.7- 23V, 5.5 A, 28 mΩ Reverse Current Blocking eFuse with Input Reverse Polarity Protection	VQFN10
U20	1		TVS1401DRBR	Texas Instruments	14 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A
U21	1		TPSM863252RDXR	Texas Instruments	3V to 16 V Input, 3-A Synchronous Step-Down Voltage Regulator Module, QFN-FCMOD7	QFN-FCMOD7
U22	1		TLV75533PDRVR	Texas Instruments	500mA LDO, DRV0006A (WSON-6)	DRV0006A
U23	1		ISOW1044DFM	Texas Instruments	Reinforced 5-kVRMS Isolated CAN Transceiver with Integrated lowemissions DC-DC Converter	SOIC20
U24, U25	2		TSM24CADBZR	Texas Instruments	±24 V Low Capacitance Surge Diode for Industrial Networks in SOT-23 Package	SOT23-3
U26_L1, U26_L2, U26_L3, U26_N, U27_L1, U27_L2, U27_L3, U27_N, U31_L1, U31_L2, U31_L3, U31_N, U36_L1, U36_L2, U36_L3, U36_N	16		LMG3522R030-Q1	Texas Instruments	650-V 30-mΩ GaN FET with Integrated Driver, Protection, and Temperature Reporting	VQFN52
U28_L1, U28_L2, U28_L3, U28_N, U32_L1, U32_L2, U32_L3, U32_N, U37_L1, U37_L2, U37_L3, U37_N, U43_L1, U43_L2, U43_L3, U43_N	16		ISO7721FDWV	Texas Instruments	High Speed, Robust EMC Reinforced Dual-Channel Digital Isolator, DWV0008A (SOIC-8)	DWV0008A
U29_L1, U29_L2, U29_L3, U29_N, U34_L1, U34_L2, U34_L3, U34_N, U39_L1, U39_L2, U39_L3, U39_N, U44_L1, U44_L2, U44_L3, U44_N	16		UCC33421-Q1	Texas Instruments	1.5W, High-Density, >5 kVRMS Isolated DC-DC Converter	SSOP16
U30_L1, U30_L2, U30_L3, U30_N, U35_L1, U35_L2, U35_L3, U35_N, U40_L1, U40_L2, U40_L3, U40_N, U45_L1, U45_L2, U45_L3, U45_N	16		TLV61046ADBVR	Texas Instruments	28-V Output Voltage Boost Converter with Power Diode and Isolation Switch, DBV0006A (SOT-6)	DBV0006A
U33_L1, U33_L2, U33_L3, U33_N	4		SN74LVC1G11DBVR	Texas Instruments	Single 3-Input Positive-AND Gate, DBV0006A, LARGE T&R	DBV0006A
U41_L1, U41_L2, U41_L3, U41_N	4		AMC0311DDWV	Texas Instruments	Precision, 2V Input, Basic and Reinforced Isolated Amplifiers With Fixed-Gain Differential Output	SOIC-WB8