

Variant: 001
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TID #: TIDA-020079



TIDA-020079 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-020079	Any	Printed Circuit Board	
2	C1, C5, C13, C245, C249	5	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0603	0603
3	C2, C7, C8, C11, C12, C16	6	0.1uF	06035C104K4Z4A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 0, 0603	0603
4	C3, C14	2	100uF	EEEF1P1H101AP	Panasonic	CAP, AL, 100 uF, 50 V, +/- 20%, 0.18 ohm, AEC-Q200 Grade 2, SMD	D8xL10.2mm
5	C4, C15	2	2.2uF	GRM188R61H225KE11D	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 0603	0603
6	C6	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
7	C9	1	3300pF	C0603C332K5RACTU	Kemet	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
8	C10, C17, C18, C19, C23, C24, C28, C30, C33, C46, C48, C49, C78, C80, C83, C84, C88, C90, C92, C95, C104, C107, C110, C111, C308, C309, C358, C361, C368, C405	30	0.1uF	06035C104KAZ2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
9	C20, C25, C29, C34	4	4700pF	C0603C472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C21, C22, C26, C27, C31, C32, C35, C36	8	20pF	08051A200JAT2A	AVX	CAP, CERM, 20 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
11	C47, C50, C51, C52, C53	5	220pF	CL10B221JB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 220 pF, 50 V, +/- 5%, X7R, 0603	0603
12	C54, C55, C56, C57, C391, C393	6	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
13	C58, C64, C71	3	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0603	0603
14	C59, C62, C65, C68, C70, C72, C76, C81, C82, C85, C86, C91, C93, C94	14	0.022uF	CGA3E2X7R2A223K080AA	TDK	CAP, CERM, 0.022 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
15	C60, C66, C74, C136	4	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
16	C61, C67, C75, C388, C395, C396	6	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
17	C63, C69	2	4700pF	GCM188R72A472KA37D	MuRata	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
18	C73	1	1000pF	C0603C102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
19	C77, C79, C87, C89	4	0.22uF	GCJ188R71H224KA01D	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
20	C96	1	330uF	EEE-FT1H331AP	Panasonic	CAP, AL, 330 uF, 50 V, +/- 20%, 0.12 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G

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21	C97, C98, C108, C109	4	1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
22	C99	1	10uF	CGA6P3X7S1H106K250AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
23	C100, C102, C103, C115, C118, C119	6	0.1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
24	C101	1	1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
25	C105, C117	2	1µF	C0603X105J9RACAUTO	KEMET	Cap Ceramic 1uF 6.3V X7R 5% Pad SMD 0603 Flexible Termination 125°C Automotive T/R	0603
26	C106	1	0.1uF	C0603C104K9RAC7867	Kemet	CAP, CERM, 0.1 µF, 6.3 V,+/- 10%, X7R, 0603	0603
27	C112, C113, C122	3	10uF	EEE-2AA100UP	Panasonic	CAP, AL, 10 uF, 100 V, +/- 20%, AEC-Q200 Grade 3, SMD	SMT Radial E
28	C114, C116	2	0.1uF	C3216X7R2A104K160AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1206	1206
29	C123	1	0.068uF	CGA3E3X7S2A683K080AB	TDK	CAP, CERM, 0.068 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0603	0603
30	C124	1	100nF	8.85012E+11	Würth Electronics	0.1µF ±10% 10V Ceramic Capacitor X7R 0402 (1005 Metric)	0402
31	C125, C126, C127, C128, C129, C130, C131, C132, C392	9	0.01uF	CGA3E2X7R2A103K080AA	TDK	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
32	C133, C134, C137, C138, C140, C141, C142, C143, C144, C146, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C374, C375, C376, C377, C378, C379, C380, C381	32	10nF	GCE188R71H103KA01D	Murata	Ceramic Capacitor 10nF ±10% 50V X7R 0603	0603
33	C135	1	4.7µF	CGA4J1X7R1H475K125AC	TDK Corporation	Cap Ceramic 4.7uF 50V X7R 10% Pad SMD 0805 +125°C Automotive T/R	0805
34	C139, C237, C239, C241, C243	5	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
35	C145, C147	2	0.1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.1 uF, 10 V,+/- 10%, X7R, 0603	0603
36	C148	1	1uF	LMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 10 V,+/- 10%, X7R, 0603	0603
37	C163, C164, C165, C171, C172, C173, C190, C192, C200, C206, C207	11	3.3µF	CL10A335KP8NNNC	Samsung	Cap Ceramic 3.3uF 10V X5R ±10% Pad SMD 0603 +85°C T/R	0603

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38	C166, C167, C168, C169, C170, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C191, C193, C194, C195, C196, C197, C198, C199, C201, C202, C203, C204, C205, C208, C209, C210, C211, C212, C214, C215, C216, C217, C218, C219, C225, C226, C227, C231, C232, C234, C235, C248, C257	54	0.1uF	GRM033Z71C104KE14D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0201	0201
39	C213, C224, C230, C233, C247, C295	6	4.7uF	GRM155R61A475MEAAD	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0402	0402
40	C220, C221, C222, C223, C255, C256, C258, C259, C260, C263, C302, C303	12	100nF	GRM155R71H104KE14D	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 0.10uF, X7R, 15%, 10%, 50V	0402
41	C228, C229, C236, C238, C240, C242, C244, C246, C250, C251, C252, C253	12	100nF	C0603C104J5RAC7867	KEMET	Cap Ceramic 0.1uF 50V X7R 5% SMD 1.6 x 0.8 mm 125 C Paper T/R	0603
42	C254, C264, C275, C276, C278, C279, C281, C286, C288, C290, C292, C296, C298, C300	14	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
43	C261, C262	2	12pF	CGA2B2C0G1H120J050BA	TDK	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
44	C265, C266, C267, C268, C287	5	47µF	GMC31X5R476M25NT	Cal-Chip Electronics	47 µF ±20% 25V Ceramic Capacitor X5R 1206 (3216 Metric)	1206

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45	C269, C270, C289, C291, C294, C297, C299, C301	8	10µF	GRM21BR61H106KE43L	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10uF, X5R, 15%, 10%, 50V	0805
46	C271, C272, C293	3	2.2µF	GRM155R61E225KE11D	Murata	2.2µF ±10% 25V Ceramic Capacitor X5R 0402 (1005 Metric)	0402 (1005 metric)
47	C273, C274, C280	3	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
48	C277	1	0.01uF	GCM155R71E103KA37D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
49	C282, C283, C284, C285, C364, C371	6	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, 0805	0805
50	C304	1	0.082uF	GRM188R71E823KA01D	MuRata	CAP, CERM, 0.082 uF, 25 V, +/- 10%, X7R, 0603	0603
51	C305	1	220uF	EEVFK1H221P	Panasonic	CAP, AL, 220 uF, 50 V, +/- 20%, 0.1 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
52	C306	1	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
53	C307	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
54	C310	1	390uF	UCL1V391MNL1GS	Nichicon	CAP, AL, 390 uF, 35 V, +/- 20%, 0.08 ohm, SMD	10x10
55	C311, C312, C313, C314, C325, C326	6				Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 1uF 20%, 50VDC, X7R 15%	
56	C315, C316, C317, C318, C319, C320, C321, C322	8				Cap Ceramic 0.1uF 50V X7R 10% Pad SMD 0603 Soft Termination +125°C Automotive T/R	
57	C323	1	1µF	CL10B105KB9VPJC	Samsung	1 µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	0603
58	C324	1	100nF	C0603X104K5RACAUTO	Kemet	Cap Ceramic 0.1uF 50V X7R 10% Pad SMD 0603 Flexible Termination 125C Automotive T/R	0603
59	C327, C338, C345, C353	4	1uF	GCM21BR71H105KA03K	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
60	C328, C332, C350, C351	4	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
61	C329, C339, C347, C354	4				Ceramic Capacitor for Automotive 150nF ±10% 50VDC X7R 0603 Paper T/R	
62	C330, C331, C341, C342, C348, C349, C355, C356	8	0.01uF	GRM1885C1H103JA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 5%, C0G/NP0, 0603	0603
63	C333, C343, C352, C357, C400	5	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	0402
64	C334	1	2.2uF	GRM188R71A225KE15J	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
65	C335	1	0.33uF	GRM188R71C334KA01D	MuRata	CAP, CERM, 0.33 uF, 16 V, +/- 10%, X7R, 0603	0603
66	C336, C340, C344, C346	4	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
67	C337	1	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
68	C359	1	10uF	CL21B106KOQNNNG	Samsung	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 0805	0805
69	C360	1	10µF	GMC31X7R106K50NT	Cal-Chip Electronics	10 µF ±10% 50V Ceramic Capacitor X7R 1206 (3216 Metric)	1206
70	C362	1	33nF	CGA3E2X7R1H333K080AA	TDK	Cap Ceramic 33nF 50V X7R 10% Pad SMD 0603 +125°C Automotive T/R	0603
71	C363	1	1000pF	C0603C102J5RACAUTO	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, AEC-Q200 Grade 1, 0603	0603
72	C365	1	1uF	GCJ21BR71H105MA01L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0805	0805
73	C366	1	2.2uF	CGA4J3X7R1H225K125AE	TDK	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
74	C367	1	10uF	GRM188R61C106MAALD	MuRata	CAP, CERM, 10 uF, 16 V, +/- 20%, X5R, 0603	0603
75	C369, C372	2	6800pF	GRM155R71H682KA88D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402	0402
76	C370	1	10µF	8.85012E+11	Wurth	10 µF ±20% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	0603
77	C373	1	4.7uF	C0603C475K8PACTU	Kemet	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0603	0603

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78	C382, C383, C384, C385, C386, C387	6	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
79	C389, C399	2	0.1uF	CGA4J2X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
80	C390, C394	2	15uF	KCM55WR72A156MH01K	MuRata	CAP, CERM, 15 uF, 100 V, +/- 20%, X7R, Stacked 2220	Stacked 2220
81	C397, C398, C401, C404	4	0.47uF	CGA3E3X7R1E474K080AB	TDK	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
82	C406, C407, C410, C411, C414, C415, C418, C419	8	0.1uF	0201BB104KW160	Passive Plus	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0201	0201
83	C408, C409, C412, C413, C416, C417, C420, C421	8	1uF	GRM033R61C105ME15D	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 0201, 1.0uF, X5R, 15%, 20%, 16V	0201
84	D1, D2, D3, D54	4	Super Red	150060SS75000	Würth Elektronik	LED, Super Red, SMD	LED_0603
85	D4, D6	2	33V	SMBJ33A-13-F	Diodes Inc.	Diode, TVS, Uni, 33 V, 53.3 Vc, SMB	SMB
86	D5, D7	2	16V	SMBJ16A-13-F	Diodes Inc.	Diode, TVS, Uni, 16 V, 26 Vc, SMB	SMB
87	D8, D9, D10, D11	4		ESD2CAN24DCK	Texas Instruments	24-V, 2-Channel ESD Protection Diode for In-Vehicle Networks, SC70-3	SC70-3
88	D13, D14, D15, D16, D17	5	75V	1N4148WS-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.15 A, AEC-Q101, SOD-323	SOD-323
89	D18	1	200V	BAS21-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOT-23	SOT-23
90	D19	1	45V	BAS 52-02V H6327	Infineon Technologies	Diode, Schottky, 45 V, 0.75 A, SOD-523	SOD-523
91	D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D58	21	3.3V	MMSZ5226B-7-F	Diodes Inc.	Diode, Zener, 3.3 V, 500 mW, SOD-123	SOD-123
92	D40, D41, D55	3	20V	NSR0520V2T1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, AEC-Q101, SOD-523	SOD-523
93	D42	1	Blue	LTST-C193TBKT-5A	Lite-On	LED, Blue, SMD	1.6x0.8mm
94	D43	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
95	D44, D45, D46, D47, D48, D49, D50	7	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
96	D51, D52	2		150040RS73220	Würth	Red 624nm LED Indication - Discrete 2V 0402 (1005 Metric)	0402
97	D53	1	100V	SS2H10-E3/5BT	Vishay-Semiconductor	Diode, Schottky, 100 V, 2 A, SMB	SMB
98	D57	1	100V	1N4148W-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.15 A, SOD-123	SOD-123
99	FB1, FB2	2		BLM18EG121SN1D	Murata	120 Ohms @ 100MHz 1 Ferrite Bead 0603 (1608 Metric) 2A 40mOhm	0603
100	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
101	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
102	H9	1		ATS-TI1OP-1099-C1-R1	Advanced Thermal Solutions	Heat Sink for DKQ Packages, 41.4x20 mm	Heat Sink for DKQ Packages, 41.4x20 mm
103	J1, J4, J7, J8	4		1902547	Phoenix Contact	Terminal Block, 9.52mm, 2x1, R/A, TH	Terminal Block, 2x1, Pitch 9.52mm
104	J2, J3, J5, J10	4		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
105	J6	1		1715080	Phoenix Contact	Terminal Block, 5mm, 8 Pos, TH	Terminal Block, 5mm, 8 Pos, TH
106	J9, J26, J27	3		1715048	Phoenix Contact	Terminal Block, 5mm, 4x1, R/A, TH	Terminal Block, 5mm, 4x1, TH

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107	J11	1		ERF8-013-05.0-L-DV-TR	Samtec	26 Position Connector Socket, Outer Shroud Contacts Surface Mount Gold	CONN_RCPT26
108	J12, J13	2		ERF8-025-05.0-L-DV-L-TR	Samtec	Receptacle, 0.8mm, 25x2, Gold, SMT	Receptacle, 0.8mm, 25x2, SMT
109	J14	1		TSW-110-07-G-S	Samtec	Header, 100mil, 10x1, Gold, TH	10x1 Header
110	J15, J21, J22	3		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
111	J16, J19	2		TSW-106-07-G-S	Samtec	Header, 100mil, 6x1, Gold, TH	6x1 Header
112	J17	1		TSW-105-07-F-D	Samtec	Header, 2.54mm, 5x2, Gold, Black, TH	Header, 2.54mm, 5x2, TH
113	J18	1		TSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	5x1 Header
114	J20	1		TSM-108-01-L-DV-008-P-TR	Samtec	Conn Unshrouded HDR 16 POS 2.54mm Solder ST SMT	HDR15
115	J23	1		TSW-104-07-G-S	Samtec	Header, 100mil, 4x1, Gold, TH	4x1 Header
116	J24	1		09 65 162 6810	Harting	D-Sub-9, 11Pos, Male, TH	D-Sub-9, 2rows, Male, TH
117	J25	1		TSW-107-07-G-D	Samtec	Header, 100mil, 7x2, Gold, TH	7x2 Header
118	J28	1		TSW-108-07-G-S	Samtec	Header, 100mil, 8x1, Gold, TH	8x1 Header
119	J29	1		5650478-5	TE Connectivity	Header, 2.54mm, 16x3, Gold, TH	Header, 2.54mm, 16x3, TH
120	L1, L2, L3, L4	4	100uH	ACT45B-101-2P-TL003	TDK	Inductor, Ferrite, 100 uH, 0.15 A, 2 ohm, SMD	SMD, 4-Leads, Body 4.7 x 3.7 mm
121	L6	1	2.2uH	CLF7045NIT-2R2N-D	TDK	Inductor, Shielded, Ferrite, 2.2 uH, 5.1 A, 0.017 ohm, AEC-Q200 Grade 0, SMD	7.4x7.0x4.8mm
122	L7, L8, L9, L10	4	3.3uH	VCMT053T-3R3MN5	Cyntec	Inductor, 3.3 uH, 4.5 A, 0.038 ohm, AEC-Q200 Grade 0, SMD	5.45x5.25x3.0mm
123	L11	1	1uH	XGL4030-102MEC	Coilcraft	Power Inductor, shielded, composite, 1uH 20% tol, DCR 7.2mOhms, SRF 65MHz, Isat 4.8A, Irms 13A, AEC-Q200	SMD_IND_4MM0_4M M0
124	L12	1	1uH	TFM201610ALMA1R0MTAA	TDK	Inductor, Shielded, Metal Composite, 1 uH, 3.1 A, 0.06 ohm, AEC-Q200 Grade 0, SMD	0806
125	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
126	Q1, Q2, Q3, Q4, Q5, Q6	6		BUK7J1R4-40HX	Nexperia	Trans MOSFET N-CH 40V 190A Automotive 5-Pin(4+Tab) LFPK T/R	LFPK56E
127	Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14	8	40V	CSD18512Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 100 A, DNK0008A (VSON-CLIP-8)	DNK0008A
128	Q15, Q16	2	-12V	IRLML6401TRPBF	Infineon Technologies	MOSFET, P-CH, -12 V, -4.3 A, SOT-23	SOT-23
129	Q17	1	100V	BSS123W-7-F	Diodes Inc.	MOSFET, N-CH, 100 V, 0.17 A, SOT-323	SOT-323
130	Q18	1	25V	FDV303N	Fairchild Semiconductor	MOSFET, N-CH, 25 V, 0.68 A, SOT-23	SOT-23
131	Q19, Q23	2	60V	DMN6075S-7	Diodes Inc.	MOSFET, N-CH, 60 V, 2 A, AEC-Q101, SOT-23	SOT-23
132	Q20	1		BUK7S0R5-40HJ	Nexperia	N-Channel 40 V 500A (Ta) 375W (Ta) Surface Mount LFPK88 (SOT1235)	SOT1235
133	Q21	1	40 V	MMBT3904TT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-416	SOT-416
134	Q22	1	60V	ZVN4106FTA	Diodes Inc.	MOSFET, N-CH, 60 V, 0.2 A, AEC-Q101, SOT-23	SOT-23
135	Q24	1		SQJQ410EL-T1_GE3	Vishay	N-Channel 100V 135A (Tc) 136W (Tc) Surface Mount PowerPAK® 8 x 8	PowerPAK 8x8L
136	R1, R2, R3, R384	4	205	RC0603FR-07205RL	Yageo	RES, 205, 1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
137	R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R209, R210, R211, R214, R215, R216, R217, R218, R219, R220, R224, R227, R229, R240, R253, R262, R292, R293, R295, R297, R299, R318, R319, R322, R329, R332, R339, R341, R342, R404, R411, R413	43	0	ERJ-2GE0R00X	Panasonic	0 Ohms Jumper Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	0402
138	R15	1		PU2512FKGP60U3L	Yageo	300 µOhms ±1% 6W Chip Resistor 2512 (6432 Metric) Automotive AEC-Q200, Current Sense, Moisture Resistant Metal Element	2512 (6432 Metric)
139	R16, R20	2	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
140	R17, R18, R19, R34	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
141	R21	1	20.8k	RT0603BRD0720K8L	Yageo America	RES, 20.8 k, 0.1%, 0.1 W, 0603	0603
142	R22, R24, R31	3	100k	ERJ-PB3B1003V	Panasonic	Res Thick Film 0603 100K Ohm 0.1% 0.2W(1/5W) ±50ppm/°C Pad SMD Automotive T/R	0603
143	R23	1	1.62k	CRCW06031K62FKEA	Vishay-Dale	RES, 1.62 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
144	R25, R26, R27, R182, R185, R375, R378, R380, R446, R447, R448, R450, R451, R470	14	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
145	R28	1	30.0k	RC0603FR-0730KL	Yageo	RES, 30.0 k, 1%, 0.1 W, 0603	0603
146	R29	1	36.5k	RC0603FR-0736K5L	Yageo	RES, 36.5 k, 1%, 0.1 W, 0603	0603
147	R30	1	500µ	CSS2H-2512R-L500F	Bourns	500 µOhms ±1% 6W Chip Resistor 2512 (6432 Metric) Automotive AEC-Q200, Current Sense Metal Element	2512
148	R32, R33	2	100	SG73S1JTDD101J	KOA Speer	100 Ohms ±5% 0.2W, 1/5W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Moisture Resistant, Pulse Withstanding Thick Film	0603
149	R36, R40, R42, R45, R46, R49, R50, R53, R74, R75, R76, R387, R388, R390, R392, R478	16	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
150	R37, R38, R43, R44, R47, R48, R51, R52	8	60	CRCW120660R0KNEAIF	Vishay-Dale	RES, 60, 10%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
151	R39	1	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
152	R41	1	100k	RG1608P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.1 W, 0603	0603
153	R64, R66, R67, R68, R70, R191	6	1.00k	RT0603BRD071KL	Yageo America	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
154	R65, R69, R71, R72, R73, R405, R408, R410, R414, R416	10	10.0k	AC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
155	R80, R92, R100	3	10	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
156	R81, R82, R83, R84, R86, R93, R94, R95, R99, R101, R102, R106, R109, R111, R119, R123, R124, R128, R135, R141, R142, R147	22	10.0k	RMCF0603FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
157	R85, R88, R91, R97, R104, R108, R110	7	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	0603
158	R87, R96, R103	3	698	CRCW0603698RFKEA	Vishay-Dale	RES, 698, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
159	R89, R105	2	22	RC0603FR-0722RL	Yageo	RES, 22.0, 1%, 0.1 W, 0603	0603
160	R90, R107, R158, R167, R178, R263, R264, R265, R277, R278, R283, R284, R285, R286, R287, R288, R289, R290, R291, R316, R317, R320, R321, R323, R326, R327, R328, R330, R336, R337, R338, R343, R346, R347, R412	35	10k	RC0402JR-0710KL	YAGEO	Res Thick Film 0402 10K Ohm 5% 0.063W(1/16W) ±100ppm/C Pad SMD T/R	0402
161	R98, R159, R170, R187, R232, R233, R234, R235, R236, R237, R247, R248, R249, R250, R251, R252, R266, R267, R268, R269, R270, R271, R272, R273, R274, R340, R359, R360, R361, R362, R363, R364, R365, R366, R367, R449	36	22	RC0201FR-0722RL	Yageo America	RES, 22.0, 1%, 0.05 W, 0201	0201

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
162	R112, R113, R115, R116, R117, R118, R120, R121, R125, R129, R132, R134, R136, R137, R139, R140, R144, R145, R146, R301, R303, R305, R307	23	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
163	R114, R127, R131, R143, R148	5	1.0k	ESR03EZPJ102	Rohm	RES, 1.0 k, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
164	R122	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
165	R126	1	66.5k	CRCW060366K5FKEA	Vishay-Dale	RES, 66.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
166	R130, R133, R212, R325, R401, R464, R468, R469, R482	9	10.0k	TNPW060310K0BEEA	Vishay-Dale	RES, 10.0 k, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
167	R138	1	16.9k	CRCW060316K9FKEA	Vishay-Dale	RES, 16.9 k, 1%, 0.1 W, 0603	0603
168	R149	1	23.2k	CRCW060323K2FKEA	Vishay-Dale	RES, 23.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
169	R150, R151, R152, R156, R157, R160, R161, R163, R164, R294, R296, R298, R300, R302, R304, R306, R308, R309, R311, R312, R313, R314, R315, R371, R372, R377, R379, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R443, R445, R453, R454, R455, R459, R460, R462, R467, R476, R477	62	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
170	R153	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
171	R154, R162	2	0.007	WSHM28187L000FEA	Vishay-Dale	RES, 0.007, 1%, 7 W, AEC-Q200 Grade 0, 7.1x4.6mm	7.1x4.6mm
172	R155	1	10.0k	ERA-3ARW103V	Panasonic	RES, 10.0 k, 0.05%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
173	R165, R166	2	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
174	R168, R169	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
175	R171	1	110	CRCW0603110RJNEA	Vishay-Dale	RES, 110, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
176	R172, R173, R174	3	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
177	R175, R176, R177, R179	4	510	CRCW0603510RJNEA	Vishay-Dale	RES, 510, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
178	R180, R181, R183, R184, R186, R188, R189, R190, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207	24	220	MCT06030C2200FP500	Vishay/Beyschlag	RES, 220, 1%, 0.125 W, 0603	0603
179	R208, R310	2	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, .05 W, AEC-Q200 Grade 0, 0201	0201
180	R213	1	1.2k	ERJ-3GEYJ122V	Panasonic	RES, 1.2 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
181	R221, R222, R259	3	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
182	R223, R225, R226, R228, R230, R231, R241, R242, R243, R244, R245, R246	12	0	RMCF0201ZT0R00	Stackpole Electronics	0Ω ±0.05W 0201 Thick Film Chip Resistor AEC-Q200 compliant	0201
183	R238, R239	2	1.5k	ERJ-2GEJ152X	Panasonic	Res Thick Film 0402 1.5K Ohm 5% 1/10W ±200ppm/°C Molded SMD Punched Carrier T/R	0402
184	R254, R255, R256, R257, R258, R260, R261	7	49.9k	RC0201FR-0749K9L	Yageo America	RES, 49.9 k, 1%, 0.05 W, 0201	0201
185	R275, R279, R280, R281, R282, R357, R358	7	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
186	R276, R406, R409	3	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
187	R324	1	26.7k	CRCW060326K7FKEA	Vishay-Dale	RES, 26.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
188	R331	1	1.0k	ERJ-2GEJ102X	Panasonic	RES, 1.0 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
189	R344, R345	2	4.70k	RT0603BRD074K7L	Yageo America	RES, 4.70 k, 0.1%, 0.1 W, 0603	0603
190	R348, R356	2		ERJ-2GEJ221X	Basic Passives	Chip Resistor, 220 Ohm, +/- 5%, 100 mW, -55 to 155 degC, 0402 (1005 Metric), RoHS, Tape and Reel	0402
191	R349, R350, R351, R352, R353, R354, R355	7	470	RT0603BRD07470RL	Yageo America	RES, 470, 0.1%, 0.1 W, 0603	0603
192	R368, R475	2	2.21	RT0603DRE072R21L	Yageo America	RES, 2.21, 0.5%, 0.1 W, 0603	0603
193	R369	1	300	RC0603FR-07300RL	Yageo	RES, 300, 1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
194	R370	1		WSLF25121L000FEB	Vishay	1 mOhms ±1% 5W Chip Resistor 2512 (6432 Metric) Automotive AEC-Q200, Current Sense, Moisture Resistant, Pulse Withstanding Metal Element	2512
195	R373	1	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, 0603	0603
196	R374	1	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
197	R376	1	10	TNPW060310R0BEEA	Vishay-Dale	RES, 10.0, 0.1%, 0.1 W, 0603	0603
198	R381	1	6.65k	RC0603FR-076K65L	Yageo	RES, 6.65 k, 1%, 0.1 W, 0603	0603
199	R382	1	23.7k	RC0603FR-0723K7L	Yageo	RES, 23.7 k, 1%, 0.1 W, 0603	0603
200	R383	1	1.33k	RC0603FR-071K33L	Yageo	RES, 1.33 k, 1%, 0.1 W, 0603	0603
201	R385	1	1.00Meg	MCT06030C1004FP500	Vishay/Beyschlag	RES, 1.00 M, 1%, 0.125 W, 0603	0603
202	R386, R389, R396, R397	4	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
203	R393, R394, R395	3	100k	CRCW0603100KJNEAC	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
204	R398	1	499k	RT0603BRD07499KL	Yageo America	RES, 499 k, 0.1%, 0.1 W, 0603	0603
205	R399	1	200k	RT0603BRD07200KL	Yageo America	RES, 200 k, 0.1%, 0.1 W, 0603	0603
206	R400	1	180k	RT0603BRD07180KL	Yageo America	RES, 180 k, 0.1%, 0.1 W, 0603	0603
207	R402	1	715k	CRCW0603715KFKEA	Vishay-Dale	RES, 715 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
208	R403	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
209	R407	1	17.8k	CRCW060317K8FKEA	Vishay-Dale	RES, 17.8 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
210	R415	1	11.0k	RG1608P-113-B-T5	Susumu Co Ltd	RES, 11.0 k, 0.1%, 0.1 W, 0603	0603
211	R417	1	26.1k	CRCW040226K1FKED	Vishay-Dale	RES, 26.1 k, 1%, 0.063 W, 0402	0402
212	R442	1	270k	CRCW0603270KJNEA	Vishay-Dale	RES, 270 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
213	R444	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
214	R452	1	3	VMP-1R00-1.0-U	Isabellenhuetten	1 Ohms ±1% 3W Chip Resistor 2010 (5025 Metric) Automotive AEC-Q200, Current Sense, Moisture Resistant, Pulse Withstanding	2010
215	R456	1	10	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
216	R457	1	500μ	WSL3921L5000FEA	Vishay Dale	Res Metal Strip 3921 0.0005 Ohm 1% 3W ±175ppm/°C Molded SMD SMD Embossed Plastic T/R	3921
217	R458	1	100	ERJ-3EKF1000V	Panasonic	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
218	R461	1	124	RC0603FR-07124RL	Yageo	RES, 124, 1%, 0.1 W, 0603	0603
219	R463	1	2.21	RC0603FR-072R21L	Yageo	RES, 2.21, 1%, 0.1 W, 0603	0603
220	R465	1	820	RC0603FR-07820RL	Yageo	RES, 820, 1%, 0.1 W, 0603	0603
221	R466	1	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
222	R471	1	4.70k	RC0603FR-074K7L	Yageo	RES, 4.70 k, 1%, 0.1 W, 0603	0603
223	R472	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
224	R473	1	24.6k	RT0603BRD0724K6L	Yageo America	RES, 24.6 k, 0.1%, 0.1 W, 0603	0603
225	R474	1		3502220RFT	TE	220 Ohms ±1% 2W Chip Resistor 2010 (5025 Metric) Thick Film	2010
226	RNTC_1	1	47kΩ	NCU18WB473J6SRB	Murata	NTC Thermistor for Temperature Sensor, Automotive, 0603, 47kΩ, 5%, 0.046mA, 5V	0603
227	S1	1		CAS-D20TA	Copal Electronics	Switch, Dual SPDT, 2 Pos, 0.1A, 6VDC, SMD	5.4x3.9mm
228	SW1	1		4.16131E+11	Würth	Dip Switch SPST 4 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC	SMT_SW
229	SW2, SW3, SW4, SW5, SW6, SW7	6		4.30182E+11	Würth Electronics	Switch Tactile N.O. SPST Round Button Gull Wing 0.05A 12VDC 1000000Cycles 1.57N SMD Reel	SMT_SW_6MM2_6M M2
230	T1, T2, T3, T4, T5, T6	6		CXS70-14-C	Panduit	Terminal 70A Lug	LUG, 32.3x14.5x11.7
231	T7	1		TPS7B8133QDVRVQ1	Texas Instruments	Automotive 150-mA high-voltage ultra-low-IQ low-dropout (LDO) linear regulator, DRV0006A (WSON-6)	DRV0006A
232	TP1, TP2, TP3, TP4	4		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
233	TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21	12		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
234	U1	1		LM74900QRGERQ1	Texas Instruments	Automotive ideal diode with circuit breaker, under- and overvoltage protection with fault output 24-VQFN -40 to 125	VQFN24
235	U2	1		INA186A3QDCKRQ1	Texas Instruments	SP Amp Current Sense Amp Single R-R O/P 5.5V Automotive AEC-Q100 6-Pin SC-70 T/R	SC70-6
236	U3	1		TPS22919DCKT	Texas Instruments	5.5-V, 1.5-A, 100-mohm Load Switch with Output Discharge, DCK0006A (SOT-SC70-6)	DCK0006A
237	U4	1		LM74703QDDFRQ1	Texas Instruments	Automotive Ideal Diode Controller With External FET Health Indication	SOT23-8-THIN
238	U5	1		TCAN1043ADYYRQ1	Texas Instruments	Low-Power Fault Protected CAN FD Transceiver with INH and WAKE	SOT23-14-THIN
239	U6	1		TCAN1044VDRQ1	Texas Instruments	CAN Interface IC Automotive high speed CAN transceiver 8-SOIC -40 to 125	SOIC8
240	U7	1		TCAN1046VDRQ1	Texas Instruments	Automotive High Speed Dual CAN Transceiver, D0014A (SOIC-14)	D0014A
241	U8	1		SN3257QDYRQ1	Texas Instruments	SN3257QDYRQ1, DYY0016A (SOT-23-THIN-16)	DYY0016A
242	U10	1			Texas Instruments	Local Interconnect Network (LIN) Transceiver with Local Wake and Inhibit	SOT23-8
243	U11	1		TLIN1024RGYRQ1	Texas Instruments	Quad Local Interconnect Network (LIN) Transceiver with Dominant State Timeout, RGY0024C (VQFN-24)	RGY0024C
244	U12, U13, U16, U19	4		TXV0106BQBR	Texas Instruments	Dual-Supply Hex-Buffer with Configurable Voltage Translation and Tri-State Outputs	WQFN16
245	U14, U15, U17, U18	4		SN74LVC1G17QDCKRQ1	Texas Instruments	Automotive Catalog Single Schmitt-Trigger Buffer, DCK0005A, LARGE T&R	DCK0005A
246	U20, U21	2		TPS2HCS10-Q1	Texas Instruments	TPS2HCS10-Q1	TSSOP16
247	U22	1		TPS2HCS05A	Texas Instruments	5mΩ, Automotive Dual-Channel, SPI Controlled High-Side Switch with Integrated I2 t Wire Protection and low power mode	HTSSOP18
248	U23	1		TPS1HC30BQPWPRQ1	Texas Instruments	30-mΩ, 5-A Single-Channel Smart High-Side Switch, HTSSOP14	HTSSOP14
249	U24	1		TPS2HC08-Q1	Texas Instruments	TPS2HC08-Q1	VQFN-HR11
250	U25	1		TPS4HC120-Q1	Texas Instruments	1A, 120-mΩ Quad-Channel Smart High-Side Switch	VSSOP28
251	U26	1		TPS1HC04PQVAHRQ1	Texas Instruments	TPS1HC04PQVAHRQ1	VQFN-HR11
252	U27	1		DRV8714SQRVJRQ1	Texas Instruments	Automotive Multi-Channel Smart Half-Bridge Gate Drivers With Wide Common Mode Current Sense Amplifiers, RVJ0056A (VQFN-56)	RVJ0056A
253	U28	1		DRV8245SQRXZRQ1	Texas Instruments	Automotive H-Bridge Driver with Integrated Current Sense and Diagnostics	VQFN-HR16
254	U29	1		DRV8145SQRXZRQ1	Texas Instruments	Automotive Half Bridge Driver with Integrated Current Sense and Diagnostics	VQFN-HR16
255	U30	1		DRV81602QPWPRQ1	Texas Instruments	8-channel Configurable Low-side and High-side Driver for Automotive Relay, Lighting and Motor Control	HTSSOP24
256	U31	1			Texas Instruments	Automotive, Switch Monitoring Interface 38-HTSSOP	HTSSOP38
257	U32	1		AM263PxC	Texas Instruments	Sitara™ Microcontroller	NFBGA324
258	U33	1		IS25LX256-LHLE	ISSI	FLASH Memory IC 256Mbit SPI - Octal I/O 133 MHz 6 ns 24-TFBGA (6x8)	TFBGA24
259	U34, U39	2		SN74LVC1G08DBVR	Texas Instruments	Single 2-Input Positive-AND Gate, DBV0005A, LARGE T&R	DBV0005A
260	U35	1		SN74AVC4T245DGVR	Texas Instruments	4-Bit Dual-Supply Bus Transceiver with Configurable Voltage-Level Shifting and 3-State Outputs, DGV0016A (TVSOP-16)	DGV0016A
261	U36	1		TMP411AQDGKRQ1	Texas Instruments	Automotive Grade, Remote and Local Temperature Sensor with N-Factor and Series-R Correction, DGK0008A (VSSOP-8)	DGK0008A
262	U37	1		CAT24M01WI-GT3	ON Semi	EEPROM Serial-I2C 1M-bit 128K x 8 2.5V/3.3V/5V 8-Pin SOIC N T/R	SOIC8
263	U38	1		SN74LVC1G11DCKR	Texas Instruments	Single 3-Input Positive-AND Gate, DCK0006A (SOT-SC70-6)	DCK0006A
264	U40	1		SN74LVC3G17DCUR	Texas Instruments	TRIPLE SCHMITT-TRIGGER BUFFER, DCU0008A (VSSOP-8)	DCU0008A
265	U41	1		TPS6538600QDCARQ1	Texas Instruments	Power Management IC For Safety-Relevant Applications HTSSOP48 5 Outputs 4 LDO and 1 Synchronous Buck-Boost Regulator	HTSSOP48
266	U42	1		PTPS48111-Q1	Texas Instruments	100V Smart High Side controller with Protection and Diagnostics	VSSOP20

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
267	U43	1		TAS6754QDKQRQ1	Texas Instruments	1L Modulation, 2-MHz Digital Input 4-Channel Automotive Class-D Audio Amplifier with Current Sense and Real-time Load Diagnostics	HSSOP56
268	U44	1		TPS3762-Q1	Texas Instruments	Wide VIN 65 V Dual Channel Overvoltage & Undervoltage (OV & UV) Detector with Built-in Self-test for Automotive	SOT023-8
269	U45	1		TPS62903QRYTQ1	Texas Instruments	3-V to 18-V, High Efficiency and Low IQ Buck Converter in QFN HR Package with 165C Junction temperature	VQFN-HR9
270	U46	1		TPS7B4256QDDARQ1	Texas Instruments	70-mA, 40-V, Voltage-Tracking LDO With 3-mV Tracking Tolerance	SOIC8
271	U47	1		TPS62902QRYTRQ1	Texas Instruments	3-V to 18-V, 2-A, Automotive Low IQ Buck Converter with +165°C TJ	VQFN-HR9
272	U48	1		TMUX1308AQPWRQ1	Texas Instruments	Automotive 5V, bidirectional 8: 1, 1-channel multiplexer with injection current control & 1.8V logic 16-TSSOP -40 to...	TSSOP16
273	U49, U50	2		PTPLD1201DGSRQ1	Texas Instruments	Automotive Programmable logic device with eight general purpose inputs or outputs 10-VSSOP -40 to 125	VSSOP10
274	U51, U52	2		CCBTLV3861IPWRQ1	Texas Instruments	Automotive 3.3-V, 1:1 (SPST), 10-channel general-purpose FET bus switch	TSSOP24
275	U53	1		SN74AHCT1G14DBVT	Texas Instruments	Single Schmitt-Trigger Inverter Gate, DBV0005A (SOT-23-5)	DBV0005A
276	U54	1		TXE8124DGSR	Texas Instruments	TXE8124DGSR	VSSOP32
277	U55	1		TCAL9539RTW	Texas Instruments	Low-Voltage Translating, 16-Bit I2C-Bus, SMBus I/O Expander with Interrupt Output, Reset, and Agile I/O Configuration Registers	WQFN24
278	U56	1		TPS12140-Q1	Texas Instruments	Low IQ Smart High Side gate driver with I2t, Low Power Mode and Diagnostics	VQFN23
279	Y2	1		ABM10W-25.0000MHZ-8-K1Z-T3	Abracon	Crystal 25MHz ±10ppm 8pF SMD-4 2.5mm x 2mm	SMT4_2MM5_2MM0
280	C120, C121	0	0.1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
281	C402, C403	0	330pF	C0603C331K5RACTU	Kemet	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	0603
282	D56	0	100V	SS2H10-E3/5BT	Vishay-Semiconductor	Diode, Schottky, 100 V, 2 A, SMB	SMB
283	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
284	R35	0	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
285	R77, R78, R79, R391, R479	0	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
286	R333	0	10.0k	AC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
287	R334	0	3.9k	CRCW04023K90JNED	Vishay-Dale	RES, 3.9 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
288	R335	0	0	ERJ-2GE0R00X	Panasonic	0 Ohms Jumper Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	0402

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