

<Parameter EVM_Orderable not found>

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC81	1		Printed Circuit Board		TIDA-020047	Any		
C1, C9, C10, C20, C24, C99, C106, C107, C111, C153, C170, C175, C180, C181, C211, C215, C223	17	0.1uF	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	402	GCM155R71C104KA55D	MuRata		
C2, C76, C82, C90, C159, C204, C205, C208, C222, C225, C237	11	0.1uF	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	402	C0402C104K8RACTU	Kemet		
C3, C7, C30, C38	4	22pF	CAP, CERM, 22 pF, 50 V, +/- 1%, C0G/NP0, 0402	402	GRM1555C1H220FA01D	MuRata		
C4, C6, C84, C116, C158	5	2.2uF	CAP, CERM, 2.2 uF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GCM188R70J225KE22D	MuRata		
C5, C35	2	4700pF	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GCM188R71H472KA37D	MuRata		
C8, C11, C12, C13, C14, C15, C19, C21, C22, C23, C26, C27, C28, C31, C32, C34, C36, C37, C39, C42, C43, C44, C45, C46, C50, C51, C52, C53, C56, C57, C64, C65, C138, C139, C140, C141, C142, C143, C146, C147, C148, C149, C156, C157, C160, C161, C163, C164	56	0.22uF	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402	GCM155R71C224KE02D	MuRata		
C16, C17, C40, C41, C54, C55, C69, C70, C78, C79, C86, C87, C93, C96, C98, C131, C132, C133, C134, C135, C136, C168, C169, C188, C189, C240	26	10uF	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	805	GCM21BR71A106KE22L	MuRata		
C18, C29, C33, C112, C242, C244	6	0.01uF	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402	CGA2B3X7R1H103K050BB	TDK		
C25, C67, C68, C94, C97, C123, C125, C126, C127, C128, C186, C187, C241, C243	14	1uF	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GCM188R71C105KA64J	MuRata		
C47	1	1uF	CAP, CERM, 1 uF, 6.3 V, +/- 20%, X7R, 0402	402	GRM155R70J105MA12D	MuRata		
C48, C221	2	2.2uF	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7S, 0402	402	C1005X7S1A225K050B	TDK		
C49	1	33pF	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	402	C0402C330J5GAC	Kemet		
C58, C59, C120, C150, C151	5	1uF	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GCM188R71C105KA64D	MuRata		

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C60, C63, C71, C75, C203, C224	6	2.2uF	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805	CGA4J3X7R1H225K125AB	TDK		
C61	1	100pF	CAP, CERM, 100 pF, 16 V, +/- 10%, X7R, 0402	402	0402YC101KAT2A	AVX		
C62, C66, C115, C118	4	4.7pF	CAP, CERM, 4.7 pF, 50 V, +/- 2%, C0G/NP0, 0402	402	GJM1555C1H4R7BB01D	MuRata		
C72, C81	2	4.7uF	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206	C3216X7R1H475K160AC	TDK		
C73, C74, C92, C95, C190, C191, C197, C198, C199, C200, C201, C202, C230, C231, C232, C233, C234, C235, C239	19	22uF	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X7T, AEC-Q200 Grade 1, 0805	805	GCM21BD70J226ME36L	MuRata		
C77, C89	2		3 Terminals Low ESL Chip Multilayer Ceramic Capacitors for Automotive	603	NFM18HC105C1C3D	Murata		
C80, C218, C228	3	1uF	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	402	GCM155C71A105KE38D	MuRata		
C83	1	10pF	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	603	CGA3E2C0G1H100D080AA	TDK		
C85, C88	2	0.1uF	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X8R, AEC-Q200 Grade 0, 0603	603	CGA3E3X8R1H104K080AB	TDK		
C91, C210, C238	3	0.01uF	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	402	C0402C103K4RACTU	Kemet		
C102, C103	2	0.1uF	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805	CGA4J2X7R2A104K125AA	TDK		
C104, C110, C206, C220	4	0.47uF	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	CGA3E3X7R1H474K080AE	TDK		
C109	1	4700pF	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805	GCM216R71H472KA37D	MuRata		
C113, C114	2	27pF	CAP, CERM, 27 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	402	GCM1555C1H270JA16D	MuRata		
C117, C119, C121, C129, C130	5	0.1uF	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	402	0402YC104KAT2A	AVX		
C122	1	0.1uF	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402	CGA2B3X7R1H104K050BB	TDK		
C124, C154, C155	3	0.047uF	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402	CGA2B3X7R1H473K050BB	TDK		
C137, C182	2	2200pF	Cap, Cer-X7R, 2200pF, 50V, 10%, 0402	0402 (1005 Metric)	UMK105B7222KV-F	Taiyo Yuden	-	-
C145	1	470pF	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	402	GRM155R71H471KA01D	MuRata		
C152	1	0.01uF	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603	GRM188R71H103KA01D	MuRata		
C162, C183	2	2.2uF	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GRM188R71A225KE15J	MuRata		
C167	1	0.1uF	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603	GCM188R71H104KA57D	MuRata		
C176, C177, C178	3	10uF	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210	GCM32ER71E106KA57L	MuRata		
C179	1	1uF	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603	GCM188R71E105KA64D	MuRata		
C192, C196, C216, C226, C229	5	22uF	CAP, CERM, 22 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210	CGA6P1X7R1C226M250AC	TDK		
C193, C227	2	10uF	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210	GRM32ER71H106KA12L	MuRata		
C194, C195	2		Cap Ceramic 8pF 50V C0G 0.5pF SMD 0402 125C Paper T/R	402	GCM1555C1H8R0DA16D	Murata Electronics North America		
C207	1	1uF	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	805	C0805C105K3RACTU	Kemet		
C209, C214	2	0.15uF	CAP, CERM, 0.15 uF, 50 V, +/- 10%, X7R, 0603	603	C1608X7R1H154K080AB	TDK		
C212	1	1uF	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	603	GRM188R71A105KA61D	MuRata		
C213, C219	2	0.47uF	CAP, CERM, 0.47 uF, 10 V, +/- 10%, X7S, 0402	402	GCM155C71A474KE36D	MuRata		
C217	1	0.1uF	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	603	C0603X104K8RACTU	Kemet		
C236	1	10uF	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	805	CL21B106KOQNNNE	Samsung Electro-Mechanics		
D1, D4	2	Yellow	LED, Yellow, SMD	Yellow LED	SML-P12YTT86	Rohm		
D2, D3	2	Orange	LED, Orange, SMD	Orange LED	SML-P12DTT86	Rohm		
D5	1	Green	LED, Green, SMD	LED, 1x2x.6mm	SML-P12PTT86	Rohm		
D6, D7	2	24V	Diode, TVS, Bi, 24 V, 70 Vc, AEC-Q101, SOT-23	SOT-23	PESD1CAN,215	NXP Semiconductor		
D8	1	30V	Diode, Schottky, 30 V, 5 A, AEC-Q101, SMAF	SMAF	FSV530AF	Fairchild Semiconductor		
D9	1	28V	Diode, TVS, Bi, 28 V, 45.4 Vc, AEC-Q101, SOD-123	SOD-123	ATV02W280B-HF	Comchip Technology		
D10, D11	2		Automotive 1-Channel Ultra-Low-Capacitance IEC ESD Protection Diode, DPY0002A (X1SON-2)	DPY0002A	TPD1E05U06QDPYRQ1	Texas Instruments	TPD1E05U06QDPYQ1	Texas Instruments
E1, E2	2							
FB1	1		600 Ohms @ 100MHz 1 Power Line Ferrite Bead 0603 (1608 Metric) 1.3A 150mOhm	0603 (1608 Metric)	BLM18KG601SH1	Murata		
H1, H2, H3, H4	4		Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw	NY PMS 440 0025 PH	B&F Fastener Supply		
J1	1		1 Port Header Assembly, TH	1 Port Header Assembly	9-2304372-9	TE Connectivity		
J2	1		Receptacle, 0.5 mm, 30x2, Gold, TH	Receptacle, 0.5 mm, 30x2, TH	QSH-030-01-L-D-A	Samtec		
J3	1		Header, 1.27mm, 10x2, Tin, SMT	Header, 1.27mm, 10x2, SMT	FTR-110-51-S-D-06	Samtec		
J4, J5	2		Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block	1727010	Phoenix Contact		
J6, J7, J8	3		Header, 100mil, 3x1, Gold, TH	3x1 Header	TSW-103-07-G-S	Samtec		
J9	1		Board-To-Board Connector, SSW Series, 32 Contacts, Receptacle, 2.54 mm, Through Hole, 3 Rows	HDR36	SSW-112-01-L-T	Samtec		
J10	1		DC POWER JACK, R/A, TH	DC POWER JACK, R/A, TH	PJ-063AH	CUI Inc.		

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J11	1		Connector, Receptacle, Micro-USB Type B, R/A, Bottom Mount SMT	Micro USB receptacle	105017-0001	Molex		
L1	1	120 ohm	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	603	BLM18SG121TN1D	MuRata		
L2	1	800 ohm	Ferrite Bead, 800 ohm @ 100 MHz, 8 A, 2220	2220	HR2220V801R-10	Laird-Signal Integrity Products		
L3	1		Coupled inductor, 8 A, 0.006 ohm, SMD	SMD, 12x11mm	ACM1211-701-2PL-TL01	TDK		
L4	1	1uH	Power Inductor, shielded, composite, 1uH 20% tol, DCR 7.2mOhms, SRF 65MHz, Isat 4.8A, Irms 13A, AEC-Q200	SMD_IND_4MM0_4M M0	XGL4030-102MEC	Coilcraft		
L5, L6, L7, L16, L17, L23	6	100nH	Inductor, Wirewound, Ferrite, 100 nH, 2.85 A, 0.024 ohm, AEC-Q200 Grade 1, SMD	3.2x2.2x2.5mm	NLCV32T-R10M-EFRD	TDK		
L8	1	30 ohm	Ferrite Bead, 30 ohm @ 100 MHz, 6 A, 0805	805	MPZ2012S300AT000	TDK		
L10	1	100uH	Coupled inductor, 100 uH, A, 1.5 ohm, SMD	3.9x2.5mm	ACT1210-101-2P-TL00	TDK		
L13, L14	2	100uH	Inductor, Ferrite, 100 uH, 0.15 A, 2 ohm, SMD	SMD, 4-Leads, Body 4.7 x 3.7 mm	ACT45B-101-2P-TL003	TDK		
L15	1	470nH	Inductor, Shielded, Composite, 470 nH, 15.5 A, 0.0041 ohm, AEC-Q200 Grade 1, SMD	4x4mm	XEL4030-471MEB	Coilcraft		
L18, L19, L21, L22	4	0.47uH	470nH Shielded Thin Film Inductor 4.9A 24mOhm Max 1008 (2520 Metric)	1008	TFM252012ALMAR47M TAA	TDK		
L20	1	560nH	Inductor, Shielded, Composite, 560 nH, 13.9 A, 0.0083 ohm, AEC-Q200 Grade 1, SMD	5.48x2.0x5.28mm	XAL5020-561MEB	Coilcraft		
LBL1	1	TPR12EVM	Thermal Transfer Printable Labels, 0.650" W x 0.200" H 10,000 per roll	PCB Label 0.650 x 0.200 inch	THT-14-423-10	Brady		
MP1, MP2, MP3, MP4	4			HEX_STANDOFF_#4-40	1902D	Keystone Electronics		
P1, P2	2		Header, 100mil, 2x1, Gold, TH	2x1 Header	TSW-102-07-G-S	Samtec		
R1, R2, R85, R86	4	470	RES, 470, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402	ERJ-2RKF4700X	Panasonic		
R4, R13, R14, R194, R208	5	2.49k	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04022K49FKED	Vishay-Dale		
R10, R12, R24, R27, R30, R31, R35, R36, R53, R56, R58, R59, R62, R70, R74, R127, R128, R130, R136, R141, R144, R151, R152, R159, R160, R164, R165, R167, R170, R175, R176, R179, R180, R181, R185, R190, R202, R215, R224, R225	40	10.0k	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040210K0FKED	Vishay-Dale		
R11, R15	2	2.2k	RES, 2.2 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04022K20JNED	Vishay-Dale		
R16, R89, R90, R91, R92, R93, R94, R95, R97, R98, R99, R102, R104, R112, R132, R133, R134, R148, R149	19	33.2	RES, 33.2, 1%, 0.05 W, 0201	201	CRCW020133R2FNED	Vishay-Dale		
R18, R23, R33, R38	4	61.9	RES, 61.9, 1%, 0.063 W, 0402	402	CRCW040261R9FKED	Vishay-Dale		
R19, R22, R48, R49, R50, R122, R146, R147, R172, R186, R188, R191, R197	13	10k	RES, 10 k, 5%, 0.063 W, 0402	402	CRCW040210K0JNED	Vishay-Dale		
R25, R29, R63, R204	4	100k	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW0402100KFKED	Vishay-Dale		
R26, R138	2	10.0k	RES, 10.0 k, 0.5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040210K0DHED P	Vishay-Dale		
R28, R137	2	20.0k	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040220K0FKED	Vishay-Dale		
R32, R47, R54, R105, R109, R161, R162, R168, R187	9	0	RES, 0, 5%, 0.05 W, 0201	201	CRCW02010000Z0ED	Vishay-Dale		
R34, R37, R73, R77, R78, R131, R139, R140, R145, R153, R154, R183	12	33.2	RES, 33.2, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040233R2FKED	Vishay-Dale		

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R39, R200, R211	3	49.9	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040249R9FKED	Vishay-Dale		
R40, R41, R83, R110, R113, R114, R115, R118, R120, R121, R125, R142, R143, R156, R158, R184, R193, R195, R199, R203, R205, R207, R209, R210, R213, R218, R219, R220, R222, R223, R226, R227	32	0	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04020000Z0ED	Vishay-Dale		
R42, R43, R76, R81, R155, R157	6	2.94k	RES, 2.94 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04022K94FKED	Vishay-Dale		
R44, R45, R229, R233	4	0	RES, 0, 5%, 0.125 W, 0603	603	MCT06030Z0000ZP500	Vishay/Beyschlag		
R51	1	24.9k	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040224K9FKED	Vishay-Dale		
R52	1	10.0k	RES, 10.0 k, 1%, 0.1 W, 0402	402	ERJ-2RKF1002X	Panasonic		
R55	1	1.00k	RES, 1.00 k, 1%, 0.1 W, 0603	603	ERJ-3EKF1001V	Panasonic		
R57	1	60.4k	RES, 60.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040260K4FKED	Vishay-Dale		
R60, R61	2	1	RES, 1.00, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04021R00FKED	Vishay-Dale		
R64, R75, R80, R82, R135, R228, R234	7	0	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402	ERJ-2GE0R00X	Panasonic		
R65, R67, R69, R71, R79, R182	6	1.00k	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04021K00FKED	Vishay-Dale		
R66	1	43.2k	RES, 43.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040243K2FKED	Vishay-Dale		
R68	1	4.99k	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04024K99FKED	Vishay-Dale		
R72	1	4.87k	RES, 4.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04024K87FKED	Vishay-Dale		
R84	1	220	RES, 220, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402	ERJ-2RKF2200X	Panasonic		
R96	1	100k	RES, 100 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805	CRCW0805100KJNEA	Vishay-Dale		
R101, R107	2	1.00k	RES, 1.00 k, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010	CRCW20101K00KFKE	Vishay-Dale		
R103, R108, R236, R237	4	0	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603	RMCF0603ZT0R00	Stackpole Electronics Inc		
R111, R123, R124	3	4.7k	RES, 4.7 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04024K70JNED	Vishay-Dale		
R116, R117	2	100	RES, 100, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW0402100RJNED	Vishay-Dale		
R119	1	1.00Meg	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603	CRCW06031M00FKEA	Vishay-Dale		
R150, R240	2	47.5k	RES, 47.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040247K5FKED	Vishay-Dale		
R163	1	33k	RES, 33 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040233K0JNED	Vishay-Dale		
R166	1	18.0k	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040218K0FKED	Vishay-Dale		
R169	1	3.3k	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04023K30JNED	Vishay-Dale		
R177	1	80.6k	RES, 80.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040280K6FKED	Vishay-Dale		
R212	1	100	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402	ERJ-2GEJ101X	Panasonic		
R214	1	28.0k	RES, 28.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040228K0FKED	Vishay-Dale		
R217	1	6.81k	RES, 6.81 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04026K81FKED	Vishay-Dale		
R230, R231	2	330k	RES, 330 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW0402330KFKED	Vishay-Dale		
R232	1	30.0k	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040230K0FKED	Vishay-Dale		
R238, R239	2	0	RES, 0, 0.75 W, AEC-Q200 Grade 0, 1206	1206	CRCW12060000Z0EA HP	Vishay-Dale		
S1, S2, S3	3		Switch, Tactile, 12v, 50mA, Vertical, SMD	2.9x2x3.9mm SMD	SKRKAEE010	Alps	Equivalent	Any
TP1, TP28, TP41	3	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
TP9, TP42	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
U1	1		Automotive Catalog Dual Schmitt-Trigger Buffer, DCK0006A (SOT-SC70-6)	DCK0006A	SN74LVC2G17QDCKRQ1	Texas Instruments		
U2, U8	2		1.4V-Capable +/-0.5degC Temperature Sensor with Alert Function and I2C/SMBus interface in SOT-563, DRL0006A (SOT-OTHER-6)	DRL0006A	TMP112AIDRLR	Texas Instruments	TMP112AIDRLT	Texas Instruments
U3	1		FLASH - NOR Memory IC 16Mb (2M x 8) SPI 80MHz 8-USON (2x3)	USON8	MX25V1635FZUS03	Macronix		
U5, U6	2		Single Chip 77 and 79 GHz FMCW Transceiver, ABL0161A (FCBGA-161)	ABL0161A	AWR2243ABGABLRQ1	Texas Instruments		Texas Instruments
U7	1		300-mA, Low-IQ Low-Dropout Regulator, DBV0005A (SOT-23-5)	DBV0005A	TPS78401QDBVQ1	Texas Instruments		Texas Instruments
U9	1		Precision Micropower Shunt Voltage Reference, 0.5% accuracy, 2.5 V, 15 ppm / degC, 15 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A	LM4040C25QDBZR	Texas Instruments		
U10	1		TC-10 Compliant 100Base-T1 Automotive Ethernet PHY	VQFN36	DP83TC812R-Q1	Texas Instruments		

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
U11, U12	2		Automotive 1-Channel ESD in 0402 Package With 12pF Capacitance and 6V Breakdown, DPY0002A (X1SON-2)	DPY0002A	TPD1E10B06QDPYRQ1	Texas Instruments	TPD1E10B06DPYR	Texas Instruments
U13	1		Low-Power Fault Protected CAN FD Transceiver with INH and WAKE	SOT23-14-THIN	TCAN1043ADYYRQ1	Texas Instruments		
U14	1		No description	NFBGA285		Texas Instruments		
U15	1		3.3V Uniform Sector Dual and Quad Serial Flash	WSON8	GD25Q64CW2G	GigaDevice		
U16	1		Automotive High Speed CAN Transceiver, DRB0008J (VSON-8)	DRB0008J	TCAN1044ADRBRQ1	Texas Instruments	TCAN1044VDRBRQ1	Texas Instruments
U17	1			TSSOP8	LMK1C1102PWR	Texas Instruments		
U18	1		25-µA Quiescent Current Synchronous Boost Converter with Load Disconnect	WQFN16	TPS61379QRTE	Texas Instruments		
U19	1		Tiva C Series Microcontroller, 1024 KB Flash, 256 KB SRAM, 12 Bit, 20 Channels, -40 to 105 degC, 128-Pin TQFP (PDT), Green (RoHS & no Sb/Br), Tray	PDT0128A	TM4C1294NCPDTT3	Texas Instruments		
U20	1		LM62460QRPHRQ1, RPH0016A (VQFN-HR-16)	RPH0016A	LM62460QRPHRQ1	Texas Instruments		Texas Instruments
U21	1		Four-Phase, 20-A Buck Converter With Integrated Switches	VQFN-HR32	LP876242B0RQKRQ1	Texas Instruments		
U22	1		4-Channel ESD Protection Array for High-Speed Data Interfaces, DRY0006A (USON-6)	DRY0006A	TPD4E004DRYR	Texas Instruments		
Y1, Y3	2		Crystal, 40 MHz, 8pF, SMD	3.2x2.5mm	CX3225SA4000D0PTWCC	Kyocera		
Y2	1		Crystal, 25 MHz, 18 pF, SMD	ABM3	ABM3-25.000MHZ-D2W-T	Abracon Corporation		
Y4	1		Crystal, 16 MHz, 15 ppm, 8 pF, AEC-Q200 Grade 1, SMD	3.2x0.55x2.5mm	NX3225SA-16.000M-STD-CRS-2	NDK		
Z1, Z2, Z3	3	1x2	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt	SPC02SYAN	Sullins Connector Solutions		
C100, C108	0	47pF	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0402	402	GRM1555C1H470FA01D	MuRata		
C101, C105	0	22pF	CAP, CERM, 22 pF, 50 V, +/- 1%, C0G/NP0, 0402	402	GRM1555C1H220FA01D	MuRata		
C144	0	100pF	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	402	8.85012E+11	Würth Elektronik		
FID1, FID2, FID3, FID4, FID5, FID6	0		Fiducial mark. There is nothing to buy or mount.	N/A	N/A	N/A		
R3, R5, R6, R7, R8, R9	0	2.49k	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04022K49FKED	Vishay-Dale		
R17	0	10.0k	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040210K0FKED	Vishay-Dale		
R20, R21, R46, R171, R173, R174, R178, R189, R192, R196	0	10k	RES, 10 k, 5%, 0.063 W, 0402	402	CRCW040210K0JNED	Vishay-Dale		
R87, R88, R126, R129, R201, R206, R216, R221	0	0	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW04020000Z0ED	Vishay-Dale		
R100, R106	0	26.7	RES, 26.7, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040226R7FKED	Vishay-Dale		
R198	0	49.9	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402	CRCW040249R9FKED	Vishay-Dale		
R235	0	0	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402	ERJ-2GE0R00X	Panasonic		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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