

**TIDA-010131 REV E3 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-010131	Any	Printed Circuit Board	
C1, C14, C23, C108, C109, C110, C111, C113, C114, C115, C117, C120, C124, C198, C199	15	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C2, C35, C38, C40, C41, C135, C139, C144, C148, C153, C155, C160, C162, C164, C165, C175, C181	17	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 $\mu$ F, 16 V, +/- 10%, X7R, 0402	0402
C3, C4, C5, C6, C9, C10, C12, C15, C16, C173, C174, C178, C202	13	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 20%, X7R, 0402	0402
C7	1	47pF	GRM0335C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0201	0201
C8	1	3900pF	0201ZD392KAT2A	AVX	CAP, CERM, 3900 pF, 10 V, +/- 10%, X5R, 0201	0201
C13, C52, C53, C85, C86	5	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	0805
C17	1	0.68uF	C1005X5R1A684K050BB	TDK	CAP, CERM, 0.68 $\mu$ F, 10 V, +/- 10%, X5R, 0402	0402
C18, C20, C21	3	33pF	C0603C330J5GACTU	Kemet	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0603	0603
C19	1	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
C24, C25, C27, C29, C30	5	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 $\mu$ F, 6.3 V, +/- 10%, X5R, 0201	0201
C26, C28, C31, C32, C33, C34, C37, C130, C136, C140, C150, C151, C156, C161, C183	15	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 $\mu$ F, 10 V, +/- 10%, X7S, 0402	0402
C36, C39, C74, C116, C122, C145, C149, C166, C167, C168, C169, C170, C171, C172, C188, C197	16	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 $\mu$ F, 25 V, +/- 10%, X7R, 0402	0402
C42, C43, C73	3	22uF	885012208019	Würth Elektronik	CAP, CERM, 22 $\mu$ F, 10 V, +/- 10%, X7R, 1206_190	1206_190

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C44, C45, C48, C57, C61, C64, C77, C78, C81, C90, C94, C97	12	0.01uF	520L103KT16T	AT Ceramics	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
C46, C47, C49, C55, C56, C63, C66, C79, C80, C82, C88, C89, C96, C99, C118, C121	16	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C50, C51, C54, C71, C72, C83, C84, C87, C104, C105, C192, C193	12	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
C58, C91	2	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C60, C93	2	0.056uF	GRM188R71H563KA93D	MuRata	CAP, CERM, 0.056 µF, 50 V,+/- 10%, X7R, 0603	0603
C62, C95	2	1500pF	GRM1885C1H152JA01J	MuRata	CAP, CERM, 1500 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C65, C67, C68, C69, C70, C98, C100, C101, C102, C103	10	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C75	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0603	0603
C76, C106, C107, C112, C123, C129, C134, C138, C143, C147, C152, C154, C159, C163, C180, C182, C194, C195	18	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C119	1	100uF	GRM32ER61A107ME20L	MuRata	CAP, CERM, 100 µF, 10 V, +/- 20%, X5R, 1210	1210
C125, C126	2	27pF	GRM1885C2A270JA01D	MuRata	CAP, CERM, 27 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C127, C128, C131	3	1uF	08053D105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0805	0805
C132, C133	2	1000pF	06031C102MAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 20%, X7R, 0603	0603
C137, C141, C157	3	47uF	C3225X5R1A476M250AC	TDK	CAP, CERM, 47 µF, 10 V, +/- 20%, X5R, 1210	1210
C142, C146, C158, C196	4	33uF	C2012X5R1A336M125AC	TDK	CAP, CERM, 33 µF, 10 V, +/- 20%, X5R, 0805	0805
C176	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	0402
C177	1	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C187	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 µF, 6.3 V, +/- 20%, X5R, 0402	0402
C200, C203, C204	3	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C201	1	10uF	293D106X0010B2TE3	Vishay-Sprague	CAP, TA, 10 µF, 10 V, +/- 20%, 2.5 ohm, SMD	3528-21
C205, C206	2	10uF	GRM188R61C106MAALD	MuRata	CAP, CERM, 10 µF, 16 V,+/- 20%, X5R, 0603	0603
C207	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 µF, 16 V,+/- 10%, X7R, 0603	0603
C208	1	0.1uF	CL10B104KO8NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0603	0603
C209, C211, C212, C213	4	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V,+/- 20%, X7R, 0402	0402
C210	1	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1 µF, 25 V,+/- 5%, X7R, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
CE_TP1, CE_TP2, RMPCLK1, RMPCLK2, RMPDIR1, RMPDIR2, SYNC, TP17, TP18, TP19, Vcc_TP1, Vcc_TP2, Vtune_TP1, Vtune_TP2	14	White	5007	Keystone	Test Point, Compact, White, TH	White Compact Testpoint
D1, D2, D3, D4, D5, D6, D10, D11, D13, D14, D15, D17	12	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED_0603
D8	1	15V	SMBJ15CA	Fairchild Semiconductor	Diode, TVS, Bi, 15 V, 24.4 Vc, SMB	SMB
D9	1	30V	MBR130T1G	ON Semiconductor	Diode, Schottky, 30 V, 1 A, SOD-123	SOD-123
D16	1	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
J1, J3, J4, J6, J7, J9, J11, J13, J15, J21, J24, J32, OSCinM1, OSCinM2, OSCinP1, OSCinP2	16		142-0701-201	Emerson Network Power	Connector, TH, SMA	SMA
J2, J5	2		QSH-030-01-L-D-A	Samtec	Receptacle, 0.5 mm, 30x2, Gold, TH	Receptacle, 0.5 mm, 30x2, TH
J8, J16, J33	3		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
J10, J12, J14	3		800-10-004-10-001000	Mill-Max	Header, 100mil, 4x1, TH	Header, 4x1, 100mil, TH
J17	1		651305142821		WR-COM Mini USB 2.0 Type AB SMT Horizontal 5 Contacts	
J18, J26, J27, J28	4		0853050232	Molex	Plug, 50 Ohm, Straight, SMT	SMA Plug, Straight, SMT
J19	1		52601-S10-8LF	FCI	Header (shrouded), 100mil, 5x2, Gold, SMT	SMT Header
J20	1		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
J22	1		32K101-400L5	Rosenberger	SMA, 50 Ohm, Gold, TH	SMA, TH
J23	1		0022284033	Molex	Header, 2.54mm, 3x1, Tin, TH	Header, 2.54mm, 3x1, TH
J25	1		RAPC722X	Switchcraft	Power Jack, mini, 2.1mm OD, R/A, TH	Jack, 14.5x11x9mm
L1, L2, L3, L4, L5, L6, L7, L8, L9, L10	10	120 ohm	BLM18AG121SN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0603	0603
L11, L12, L13, L14	4	18nH	LQG15HS18NJ02D	MuRata	Inductor, Multilayer, Air Core, 18 nH, 0.3 A, 0.36 ohm, SMD	0402 polarized
L15, L16, L18, L21, L22, L25, L27, L31, L33, L34	10	120 ohm	BLM31PG121SN1L	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3.5 A, 1206	1206
L17	1	26 ohm	BLM18SG260TN1D	MuRata	Ferrite Bead, 26 ohm @ 100 MHz, 6 A, 0603	0603
L35	1	1.5uH	XAL7030-152MEB	Coilcraft	Inductor, Shielded, Composite, 1.5 µH, 15 A, 0.0076 ohm, SMD	XAL7030
L36	1	120 ohm	BLM18SG121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
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"H x 0.200"W
OSCinN, OSCinP	2		142-0701-851	Emerson Network Power Contr	Connector, SMT, End launch SMA 50 ohm	SMA

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Q1	1	20V	CSD15571Q2	Texas Instruments	MOSFET, N-CH, 20 V, 10 A, DQK0006C (WSON-6)	DQK0006C
Q2, Q3	2	40 V	BSR17A	ON Semiconductor	TRANS NPN 40V 0.2A SOT-23	SOT-23
R1, R2, R4, R7, R9, R10, R19, R20, R25, R27, R41, R42, R45, R46, R55, R57, R62, R63, R70, R73, R99, R100, R103, R132, R137, R165, R168, R182, R183, R184, R192, R193, R194, R196, R197, R208, R218, R219, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R250, R251, R252, R253, R254, R255, R256, R257, R258, R277, R285, R291, R297, R298, R299, R313, R314, R325, R330, R337,	79	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R5, R8, R356, R357	4	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
R11, R12, R58, R59	4	220	CRCW0402220RJNED	Vishay-Dale	RES, 220, 5%, 0.063 W, 0402	0402
R13, R14	2	200	CRCW0402200RFKED	Vishay-Dale	RES, 200, 1%, 0.063 W, 0402	0402
R21, R22, R29, R30, R31, R32, R47, R48, R49, R50, R286, R287, R288, R289	14	120	CRCW0402120RJNED	Vishay-Dale	RES, 120, 5%, 0.063 W, 0402	0402
R28	1	620	RC0201FR-07620RL	Yageo America	RES, 620, 1%, 0.05 W, 0201	0201
R33, R249	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R36, R38	2	18	CRCW040218R0JNED	Vishay-Dale	RES, 18, 5%, 0.063 W, 0402	0402
R51, R209	2	12k	CRCW040212K0JNED	Vishay-Dale	RES, 12 k, 5%, 0.063 W, 0402	0402
R52	1	39.0k	RC0201FR-0739KL	Yageo America	RES, 39.0 k, 1%, 0.05 W, 0201	0201
R53	1	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51 ohm, 5%, 0.1W, 0603	0603
R68, R203, R227, R271, R333, R334	6	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 0, 0201	0201
R69, R204	2	51	RC0201JR-0751RL	Yageo America	RES, 51, 5%, 0.05 W, 0201	0201
R74	1	100	RC0201FR-07100RL	Yageo America	RES, 100, 1%, 0.05 W, 0201	0201

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R77, R78, R79, R80	4	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	0603
R82, R86, R93, R97, R115, R119, R126, R130	8	50	FC0402E50R0BST1	Vishay-Dale	RES, 50, 0.1%, 0.05 W, 0402	0402
R83, R85, R87, R88, R89, R91, R116, R118, R120, R121, R122, R124, R148	13	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R90, R123	2	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
R94, R127	2	270	RC0603JR-07270RL	Yageo America	RES, 270, 5%, 0.1 W, 0603	0603
R95, R107, R112, R128, R140, R145, R178, R212, R304, R315	10	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R96, R129	2	120	CRCW0603120RJNEA	Vishay-Dale	RES, 120, 5%, 0.1 W, 0603	0603
R102, R109, R135, R142, R154, R156, R157, R158, R159, R181, R207	11	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R105, R136	2	330	RC0603JR-07330RL	Yageo America	RES, 330 ohm, 5%, 0.1W, 0603	0603
R133, R276, R281, R301	4	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
R149, R150	2	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
R151, R152, R155, R160, R161, R162, R205, R308, R309, R310, R312	11	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R153	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12k ohm, 5%, 0.1W, 0603	0603
R163	1	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.1 W, 0603	0603
R164	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R166	1	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, 0603	0603
R169	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R170, R171, R174, R175, R176, R177, R179, R180, R295	9	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
R213, R214, R215, R216	4	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
R217, R220, R222, R223, R224, R342	6	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R221	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R226	1	48.7k	CRCW060348K7FKEA	Vishay-Dale	RES, 48.7 k, 1%, 0.1 W, 0603	0603
R228	1	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1, 1%, 0.1 W, 0603	0603
R229	1	100k	RG1608P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.1 W, 0603	0603
R230	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R231	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R232	1	182k	CRCW0603182KFKEA	Vishay-Dale	RES, 182 k, 1%, 0.1 W, 0603	0603
R245, R246, R247, R248	4	160	CRCW0402160RJNED	Vishay-Dale	RES, 160, 5%, 0.063 W, 0402	0402
R270	1	82.0	RC0603FR-0782RL	Yageo America	RES, 82.0, 1%, 0.1 W, 0603	0603
R282, R283, R292, R293	4	20.0	CRCW040220R0FKED	Vishay-Dale	RES, 20.0, 1%, 0.063 W, 0402	0402
R294	1	47.5k	ERJ-3EKF4752V	Panasonic	RES, 47.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R302, R303, R305, R306, R307	5	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, 0603	0603
R316, R317, R318	3	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
R319	1	750	CRCW0603750RJNEA	Vishay-Dale	RES, 750, 5%, 0.1 W, 0603	0603
R320, R321	2	1.3k	RC0603JR-071K3L	Yageo America	RES, 1.3 k, 5%, 0.1 W, 0603	0603
R323	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, 0402	0402
R324, R326	2	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R331	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R332	1	11.8k	CRCW060311K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.1 W, 0603	0603
RFoutAM1, RFoutAM2, RFoutAP1, RFoutAP2, RFoutBM1, RFoutBM2, RFoutBP1, RFoutBP2	8		142-0771-831	Johnson	JACK, SMA, 50 Ohm, Gold, Edge Mount	JACK, SMA, 50 Ohm, Gold, Edge Mount
S1, S2, S3, S4	4		TCBS-6-01	Richco Plastics	HEX STANDOFF SPACER, 9.53 mm	7.9x9.5 mm
S5	1		L101011MS02Q	C&K Components	SWITCH SLIDE SPST 4A PCB, TH	Slide Switch, TH, SPST
T1	1		TC1-1-13M+	Mini-Circuits	RF Transformers, Surface Mount, Config. G, Balanced Transmission Line, 0.50 - 6700 MHz	
TP1, TP2, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP20, VCCCORE	13		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP5	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP6	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP7	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		LMK04828BISQ	Texas Instruments	LMK04828	
U2	1		LMK61E2-SIAT	Texas Instruments	Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B	SIA0008B
U3, U4	2		LMX2594RHAT	Texas Instruments	High Performance, Wideband PLLatinum RF Synthesizer, RHA0040A (VQFN-40)	RHA0040A
U5	1		FT232HL-REEL	FTDI	Single Channel Hi-Speed USB to Multipurpose UART/FIFO IC, LQFP-48	QFP, 48-Leads, Body 7x7mm, Pitch 0.5mm
U6	1		TLV70233DBVT	Texas Instruments	Single Output LDO, 300 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U7	1		93LC56BT-I/OT	Microchip	2K Microwire Compatible Serial EEPROM, SOT-23-6	SOT-23-6
U8	1		TPS259250DRCT	Texas Instruments	5V, 5A, 30mΩ eFuse with Adjustable +/-15% Accurate Current Limit, DRC0010J (VSON-10)	DRC0010J
U9	1	TPS54318RTE	TPS54318RTE	Texas Instruments	IC, 2.95V To 6V Input, 3A Output, 2MHz, Synchronous SWIFT	QFN-16
U10, U11	2		TPS7A4700RGWR	Texas Instruments	36-V, 1-A, 4.17-μVRMS, RF LDO Voltage Regulator, RGW0020A (VQFN-20)	RGW0020A
U12	1		TPS7A8300RGRR	Texas Instruments	2-A, 6-μVRMS, RF, LDO Voltage Regulator, RGR0020A (VQFN-20)	RGR0020A
U13, U18, U19	3		TMUX1574PWR	Texas Instruments	Low-capacitance, 2:1 (SPDT) 4-channel, powered-off protection switch with 1.8 V logic, PW0016A (TSSOP-16)	PW0016A
U14	1		SN74LVC1G08DCKR	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A (SOT-5)	DCK0005A
U15	1	SN74LVC2G53DCU	SN74LVC2G53DCU	Texas Instruments	IC, SPDT Analog Switch	VSSOP8
U16	1		LMK00304SQ/NOPB	Texas Instruments	3.1-GHz Differential Clock Buffer/Level Translator, RTV0032A (WQFN-32)	RTV0032A
U17	1	27 uF	NFM31PC276B0J3L	MuRata	FILTER LC HIGH FREQ 27uF 1206	3.2x1.6mm
U20	1		LM95233CISD	Texas Instruments	Dual Remote Diode and Local Temperature Sensor with SMBus Interface and TruTherm Technology, 15-pin LLP	SDA14B
U21	1		NB7V33MMNTXG	ON Semiconductor	1.8V / 2.5V, 10GHz ÷4 Clock Divider with CML Outputs, QFN-16	3x3mm 16-QFN
U22	1		TPS7A9001DSKR	Texas Instruments	500mA High-Accuracy Low-Noise Low-Dropout (LDO) Voltage Regulator, DSK0010A (WSON-10)	DSK0010A
U23, U24	2		DS90LV028AQMA	Texas Instruments	Automotive LVDS Dual Differential Line Receiver, 8-pin Narrow SOIC	M08A
Y1	1		CVHD-950-100.000	Crystek Corporation	VCXO, 100 MHz, 3.3V, SMD	CVHD-950-4
Y2	1		ABM3-12.000MHZ-B2-T	Abrakon Corporation	Crystal, 12Mhz, 18pF, SMD	ABM3
C11	0	12pF	C0402C120J3GACAUTO	Kemet	CAP, CERM, 12 pF, 25 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C22, C179, C184, C185, C186, C189, C190, C191	0	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 μF, 25 V, +/- 20%, X7R, 0402	0402
C59, C92	0	300pF	GRM1885C2A301JA01D	MuRata	CAP, CERM, 300pF, 100V, +/-5%, C0G/NP0, 0603	0603
D7, D12	0	24V	PGB1010603MR	Littelfuse	PulseGuard ESD Suppressor, 24VDC, SMT	0603 TVS Diode
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
L19, L20, L23, L24, L26, L28, L29, L30, L32	0	120 ohm	BLM31PG121SN1L	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3.5 A, 1206	1206

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R3, R6, R37, R39, R54, R56, R81, R84, R92, R98, R101, R108, R110, R114, R117, R125, R131, R134, R141, R143, R172, R173, R191, R195, R200, R201, R202, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R274, R275, R278, R279, R280, R284, R290, R300, R322, R329, R335, R336, R338, R340, R341, R348, R349, R352, R353, R358, R359, R360, R361	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R15, R16, R17, R18, R23, R24, R60, R61, R64, R65, R66, R67	0	240	CRCW0402240RJNED	Vishay-Dale	RES, 240, 5%, 0.063 W, 0402	0402
R26, R72, R272, R273	0	49.9	CRCW020149R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.05 W, 0201	0201
R34, R40	0	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
R35, R343	0	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
R43, R44	0	12k	CRCW040212K0JNED	Vishay-Dale	RES, 12 k, 5%, 0.063 W, 0402	0402
R71, R106, R111, R139, R144, R211	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R75, R76	0	294	CRCW0402294RFKED	Vishay-Dale	RES, 294, 1%, 0.063 W, 0402	0402
R104, R113, R138, R146	0	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, 0603	0603
R147	0	39k	CRCW060339K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.1 W, 0603	0603
R167	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R185, R186, R187, R188, R189, R206, R225	0	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R190	0	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R198, R199	0	130	CRCW0402130RFKED	Vishay-Dale	RES, 130, 1%, 0.063 W, 0402	0402
R210, R296, R311	0	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, 0603	0603
R327, R328	0	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 0, 0201	0201



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R344, R345, R346, R347, R366, R367	0	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402