

TIDA-010132 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBI	1		TIDA-010132	Any	Printed Circuit Board	
C1, C16, C227, C242, C703	5	0.01uF	520L103KT16T	AT Ceramics	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
C2, C4, C5, C11, C12, C19, C21, C228, C230, C231, C237, C238, C245, C247, C583	15	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C3, C17, C229, C243	4	100nF	885012206095	Würth Electronics Inc.	WCAP-CSGP Ceramic Capacitors, 0603, X7R, 50V, 100nF	0603
C6, C7, C9, C26, C27, C28, C232, C233, C235, C252, C253, C254, C511, C533	14	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
C8, C10, C234, C236, C463, C532	6	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	0805
C13, C239	2	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C14, C240	2	300pF	GRM1885C2A301JA01D	MuRata	CAP, CERM, 300pF, 100V, +/-5%, C0G/NP0, 0603	0603
C15, C241	2	0.056uF	C0603C563J4RACTU	Kemet	CAP, CERM, 0.056 µF, 16 V, +/- 5%, X7R, 0603	0603
C18, C244	2	1500pF	06031C152JAT2A	AVX	CAP, CERM, 1500 pF, 100 V, +/- 5%, X7R, 0603	0603
C20, C22, C23, C24, C25, C246, C248, C249, C250, C251	10	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C29, C40, C47, C57, C60, C63, C73, C75, C77, C79, C81, C86, C90, C92, C98, C101, C104, C109, C255, C266, C273, C283, C286, C289, C299, C301, C303, C305, C307, C312, C316, C318, C324, C327, C330, C335	36	10uF	GRM155R61A106ME21D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0402	0402
C30, C41, C48, C58, C61, C64, C74, C76, C78, C80, C82, C87, C91, C93, C97, C99, C102, C105, C110, C256, C267, C274, C284, C287, C290, C300, C302, C304, C306, C308, C313, C317, C319, C323, C325, C328, C331, C336	38	1uF	CL03A105MP3NSNC	Samsung Electro-Mechanics	CAP, CERM, 1 µF, 10 V, +/- 20%, X5R, 0201	0201

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C31, C32, C33, C34, C35, C36, C37, C38, C39, C42, C43, C44, C45, C46, C49, C50, C51, C52, C53, C54, C55, C56, C59, C62, C65, C66, C67, C68, C69, C70, C71, C72, C83, C84, C85, C88, C89, C94, C95, C96, C100, C103, C106, C107, C108, C111, C112, C113, C114, C115, C257, C258, C259, C260, C261, C262, C263, C264, C265, C268, C269, C270, C271, C272, C275, C276, C277, C278, C279, C280, C281, C282, C285, C288, C291, C292	100	0.1uF	GRM033C71A104KE14D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7S, 0201	0201
C116, C120, C124, C128, C132, C136, C140, C144, C148, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C200, C201, C208, C209, C221, C222, C342, C413, C414, C426, C427, C434, C435, C447, C448	34	0.1uF	GRM033C71A104KE14D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7S, 0201	0201
C117, C119, C121, C123, C125, C127, C129, C131, C133, C135, C137, C139, C141, C143, C145, C147, C343, C345, C347, C349, C351, C353, C355, C357, C359, C361, C363, C365, C367, C369, C371, C373	32	4.7pF	GRM0335C1H4R7CA01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 5%, C0G/NP0, 0201	0201
C118, C122, C126, C130, C134, C138, C142, C146, C150, C151, C152, C344, C348, C352, C356, C360, C364, C368, C372, C376, C377, C378	22	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
C149, C375, C515, C689, C690, C691, C692	7	0.1uF	550L104KCAT	AT Ceramics	CAP, CERM, 0.1 µF, 16 V, +/- 10%, Unknown, 0402	0402

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C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408	64	0.1uF	530Z104KT10T	ATC	Multilayer Ceramic Capacitors MLCC - SMD/SMT 10volts 0.1uF 10%	0201
C185, C198, C206, C219, C411, C424, C432, C445	8	5600pF	GRM155R71H562KA8BD	MuRata	CAP, CERM, 5600 pF, 50 V,+/- 10%, X7R, 0402	0402
C186, C199, C207, C220, C412, C425, C433, C446	8	0.3pF	500R07S0R3BV4T	Johanson Technology	CAP, CERM, 0.3 pF, 50 V,+/- 30%, C0G/NP0, 0402	0402
C197, C202, C203, C204, C205, C210, C211, C212, C213, C214, C215, C216, C217, C218, C223, C224, C419, C462, C579, C580, C585, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C601, C602, C603, C606, C607, C695, C696	39	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C225, C226, C417, C418, C440, C441, C443, C444, C464, C465, C466, C472, C473, C474, C475, C476, C477, C478, C479, C483, C484, C485, C486, C487, C488, C489, C490, C495, C497, C499, C500, C501, C502, C503, C504, C505, C510	37	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
C346, C429, C437	3	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10 uF, 16 V, +/- 20%, X5R, 0603	0603
C350, C430, C438, C453, C459, C460, C461, C467, C470, C471	10	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	0402

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C354, C431, C436, C439, C442, C454, C468	7	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C358, C362, C366, C370, C374, C415, C416, C455, C469, C702	10	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402	0402
C420, C421, C491, C492, C493, C494, C496, C498	8	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X5R, 0201	0201
C422, C449, C452, C512, C516, C517, C519, C520, C522, C523, C525, C526, C528, C529, C534, C535, C537, C538, C540, C541, C543, C544, C546, C547, C549, C550, C552, C553, C555, C556, C558, C559, C561, C562, C564, C565, C567, C568, C570, C571, C573, C574, C576, C577, C608, C609, C626, C627, C629, C630, C632, C633, C635, C636, C638, C639, C641, C642, C644, C645, C647, C648	88	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X7R, 1206_190	1206_190
C423, C450	2	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C428, C451	2	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C456, C457, C458	3	33pF	C0603C330J5GACTU	Kemet	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0603	0603
C480	1	3900pF	0201ZD392KAT2A	AVX	CAP, CERM, 3900 pF, 10 V, +/- 10%, X5R, 0201	0201
C481	1	47pF	GRM0335C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0201	0201
C482	1	0.68uF	C1005X5R1A684K050BB	TDK	CAP, CERM, 0.68 µF, 10 V, +/- 10%, X5R, 0402	0402
C506	1	12pF	C0402C120J3GCAUTO	Kemet	CAP, CERM, 12 pF, 25 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C507	1	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C508	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	0402
C509	1	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
C513, C514, C518, C521, C524, C527, C530, C536, C539, C542, C545, C548, C551, C554, C557, C560, C563, C566, C569, C572, C575, C578, C628, C631, C634, C637, C640, C643, C646, C649, C652, C655, C658, C661, C664, C667, C670, C673, C676, C679, C682, C685, C688, C693, C704	45	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C531	1	47uF	GRM32ER61A476KE20L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X5R, 1210	1210
C581, C582, C600	3	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C584, C586	2	4.7uF	885012207025	Würth Elektronik	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 0805	0805
C598, C599	2	100uF	GRM32ER61A107ME20L	MuRata	CAP, CERM, 100 µF, 10 V, +/- 20%, X5R, 1210	1210
C604, C605	2	27pF	CL10C270FB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 27 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603

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C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625	16	0.01uF	0402ZC103KAT2A	AVX	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0402	0402
C701	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0402	0402
CE_TP1, CE_TP2, RMPCLK1, RMPCLK2, RMPDIR1, RMPDIR2, SYNC1, Vtune_TP1, Vtune_TP2	9		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
CONN HOUS 1, CONN HOUS 2	2		22-01-3027	Molex	CONN HOUS 2POS .100 W/RAMP/RIB	
D1, D2, D3, D4, D5, D6, D11, D12, D13, D14, D15, D16, D17	13	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED_0603
D7, D8, D9, D10	4	Green	LNJ337W83RA	Panasonic	LED, Green, SMD	1.6x0.8mm
FL1, FL2	2		HFCN-3100D+	Minicircuits	High Pass Filter, 50 Ohm, 79000 to 11000 MHz, FV1206-1	3.2x1.6mm
H1, H2, H3, H4	4		1648-440-AL	RAF Electronic Hardware	3/16 RD X 1-3/16 LENGTH	1.188" (30.18mm) 1 3/16
H5, H6, H7, H8	4		PMSSS 440 0038 PH	B&F Fastener Supply	MACHINE SCREW PAN PHILLIPS 4-40	MACHINE SCREW PAN PHILLIPS 4-40
HS1, HS2	2		ATS-1846-C1-R0	Advanced Thermal Solutions	1/2 BRICK HEATSINK 58X61X11.4MM	
J1, J21	2		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
J2, J22, J25	3		0015910100	Molex	Header, 100mil, 5x2, SMT	Header, 100mil, 5x2, SMT
J3	1		TSM-105-01-TM-TM	Samtec	Header, 2.54mm, 5x3, Tin, SMT	Header, 2.54mm, 5x3, SMT
J4, J11, J12, J13, J14, J15, J16, J17, J19, J20, J36, J37, J38, J39, J40, J41, J47, OSCinM1, OSCinM2, OSCinM3, OSCinP1, OSCinP2, OSCinP3	23		0853050232	Molex	Plug, 50 Ohm, Straight, SMT	SMA Plug, Straight, SMT
J5, J6, J7, J8, J9, J10	6		IP5-04-05.0-L-S-1-TR	Samtec	Plug, 4 Ports, TH	Plug, 4 Ports, TH
J18, J42, J60, J61, J62, J63, J65, J66, J67, J70, J71, J72, J73, J75, J76, J77	16		TSW-102-07-T-S	Samtec	Header, 2.54 mm, 2x1, Tin, TH	Header, 2.54 mm, 2x1, TH
J48	1		0022284033	Molex	Header, 2.54mm, 3x1, Tin, TH	Header, 2.54mm, 3x1, TH
J53	1		ASP-184330-01	SAMTEC	14 ROW .050 PITCH TERMINAL ARRAY ASM.	
J54	1		342-10-104-00-591000	Mill-Max	Header, 100mil, 4x1, Gold, TH	Header, 100mil, 4x1, TH
J55, J78	2		HTSW-150-07-G-D	Samtec	Header, 2.54mm, 50x2, Gold, TH	Header, 2.54mm, 50x2, Gold, TH
J56	1		651305142821		WR-COM Mini USB 2.0 Type AB SMT Horizontal 5 Contacts	
J59, J69	2		951204-8622-AR	3M	Header, 2mm, 2x2, Gold, TH	Header, 2mm, 2x2, TH
L1, L2, L49, L50	4	18nH	LQG15HS18NJ02D	MuRata	Inductor, Multilayer, Air Core, 18 nH, 0.3 A, 0.36 ohm, SMD	0402 polarized
L4, L8, L12, L16, L20, L24, L28, L32, L52, L56, L60, L64, L68, L72, L76, L80	16	10nH	LQG15HS10NJ02D	MuRata	Inductor, Multilayer, Air Core, 10 nH, 0.3 A, 0.26 ohm, SMD	0402 polarized
L35, L36, L83, L84	4	20nH	LQG15WZ20NH02D	MuRata	Inductor, Multilayer, Air Core, 20 nH, 0.26 A, 1.1 ohm, AEC-Q200 Grade 1, SMD	0402
L37, L38, L41, L42, L43, L44, L47, L48, L85, L86, L89, L90, L91, L92, L95, L96	16	470nH	DFE160808S-R47M=P2	MuRata	Inductor, Shielded, Metal Composite, 470 nH, 2.4 A, 0.064 ohm, SMD	1.6x0.8mm
L39, L40	2	1000 ohm	BLM41PG102SN1L	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 1.5 A, 1806	1806
L97, L98, L99, L100, L101, L102, L103, L104, L105, L106	10	120 ohm	BLM18AG121SN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0603	0603

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L107, L108	2	15nH	LOG15HS15N02D	MuRata	Inductor, Multilayer, Air Core, 15 nH, 0.3 A, 0.32 ohm, SMD	0402 polarized
L109, L113	2	120 ohm	BLM18SG121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
L110, L111, L112	3	60 ohm	MPZ1608S600ATAH0	TDK	Ferrite Bead, 60 ohm @ 100 MHz, 3.5 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 x 0.200 inch
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43	43	50 V	DTC114EET1G	ON Semiconductor	Transistor, NPN, 50 V, 0.1 A, AEC-Q101, SOT-416	SOT-416
R1, R4, R10, R15, R160, R163, R169, R174	8	50	FC0402E50R0BST1	Vishay-Dale	RES, 50, 0.1%, 0.05 W, 0402	0402
R2, R3, R5, R6, R7, R9, R161, R162, R164, R165, R166, R168, R389, R391	14	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R8, R167	2	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
R11, R170	2	270	RC0603JR-07270RL	Yageo America	RES, 270, 5%, 0.1 W, 0603	0603
R12, R24, R31, R171, R183, R190, R353, R422, R451, R488, R489, R490, R491, R494, R495	15	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R13, R18, R19, R35, R172, R177, R178, R194, R320, R344, R346, R472, R473, R476, R477, R511, R512, R513, R514, R515, R516, R517, R520, R521, R528, R529, R530, R536, R548, R549, R550, R551, R562, R563, R574, R575, R576, R577, R580, R582, R585, R586	42	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R14, R173	2	120	RT0603DRE07120RL	Yageo America	RES, 120, 0.5%, 0.1 W, 0603	0603
R16, R17, R175, R176	4	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
R20, R28, R179, R187	4	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R21, R34, R180, R193	4	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, 0603	0603
R22, R181	2	330	RC0603JR-07330RL	Yageo America	RES, 330 ohm, 5%, 0.1W, 0603	0603
R26, R33, R185, R192	4	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
R36, R195, R402, R421, R423, R424, R425, R426, R428, R429, R430, R431, R450, R452, R453, R454, R455, R457, R458, R459	20	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R37, R196	2	3.65k	ERJ-2RKF3651X	Panasonic	RES, 3.65 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R38, R41, R42, R44, R47, R48, R52, R197, R201, R203, R205, R207, R209, R460, R462, R464, R492	17	0	EXB-2HVR000V	Panasonic	RES, 0, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1

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R50, R397, R398, R399, R400, R496, R497, R498, R499, R500, R537, R538, R539, R540, R541, R591	16	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R51, R487	2	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R54, R63, R72, R81, R90, R99, R108, R117, R129, R138, R141, R142, R144, R148, R152, R156, R213, R222, R231, R240, R249, R258, R267, R276, R288, R297, R300, R301, R303, R307, R311, R315, R333, R334, R371, R372, R380, R384, R385, R386, R387, R466, R467, R469, R470, R483, R484, R485, R486, R587, R588, R589, R590	53	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
R55, R56, R57, R60, R61, R62, R64, R65, R66, R69, R70, R71, R73, R74, R75, R78, R79, R80, R82, R83, R84, R87, R88, R89, R91, R92, R93, R96, R97, R98, R100, R101, R102, R105, R106, R107, R109, R110, R111, R114, R115, R116, R118, R119, R120, R123, R124, R125, R214, R215, R216, R219, R220, R221, R223, R224, R225, R228, R229, R230, R232, R233, R234, R237, R238, R239, R241, R242, R243, R246, R247, R248	96	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 0, 0201	0201

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R130, R132, R135, R140, R289, R291, R294, R299, R403, R404, R405, R406, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R432, R433, R434, R435, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R545, R547	42	49.9	ERJ-2RKF49R9X	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R133, R292	2	100	ERJ-1GEF1000C	Panasonic	RES, 100, 1%, 0.05 W, 0201	0201
R147, R151, R155, R159, R306, R310, R314, R318, R345, R347, R350, R351, R363, R366, R503, R504, R509, R510	18	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
R199, R211	2	0	EXB-28VR000X	Panasonic	RES ARRAY 4 RES ZERO OHM 0804	2x1mm
R319	1	1.30k	CRCW04021K30FKED	Vishay-Dale	RES, 1.30 k, 1%, 0.063 W, 0402	0402
R321, R322, R323, R324	4	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	0603
R325, R326, R327, R328, R329, R330, R331, R332, R336, R337, R359, R360, R364, R365, R373, R374	16	240	ERJ-2RKF2400X	Panasonic	RES, 240, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R335	1	620	RC0201FR-07620RL	Yageo America	RES, 620, 1%, 0.05 W, 0201	0201
R338	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R339	1	39.0k	RC0201FR-0739KL	Yageo America	RES, 39.0 k, 1%, 0.05 W, 0201	0201
R340, R341, R352, R355, R358	5	49.9	CRCW020149R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.05 W, 0201	0201
R342, R343, R505, R506	4	120	CRCW0402120RJNED	Vishay-Dale	RES, 120, 5%, 0.063 W, 0402	0402
R348, R349, R507, R508	4	200	CRCW0402200RJNED	Vishay-Dale	RES, 200, 5%, 0.063 W, 0402	0402
R354	1	18.0	RC0603FR-0718RL	Yageo America	RES, 18.0, 1%, 0.1 W, 0603	0603
R356, R357	2	294	CRCW0603294RFKEA	Vishay-Dale	RES, 294, 1%, 0.1 W, 0603	0603
R361, R368	2	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
R362, R367	2	130	CRCW0402130RFKED	Vishay-Dale	RES, 130, 1%, 0.063 W, 0402	0402
R369, R370	2	82	CRCW040282R0JNED	Vishay-Dale	RES, 82, 5%, 0.063 W, 0402	0402
R379, R382, R383, R388	4	604	RC0603FR-07604RL	Yageo America	RES, 604, 1%, 0.1 W, 0603	0603
R381	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R390	1	3.01k	RC0603FR-073K01L	Yageo America	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R392	1	4.7k	RC0603JR-074K7L	Yageo America	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R393, R394	2	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
R395	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12k ohm, 5%, 0.1W, 0603	0603
R396	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R401	1	2.2k	CRCW06032K20JNEA	Vishay-Dale	RES, 2.2 k, 5%, 0.1 W, 0603	0603
R407, R420, R427, R436, R449, R456	6	604	CRCW0402604RFKED	Vishay-Dale	RES, 604, 1%, 0.063 W, 0402	0402
R474, R475, R478	3	1.2k	CRCW04021K20JNED	Vishay-Dale	RES, 1.2 k, 5%, 0.063 W, 0402	0402
R479, R480	2	1.5k	CRCW04021K50JNED	Vishay-Dale	RES, 1.5 k, 5%, 0.063 W, 0402	0402
R524, R525, R534, R535	4	160	CRCW0402160RJNED	Vishay-Dale	RES, 160, 5%, 0.063 W, 0402	0402
R533	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R553, R555	2	0	CRCW0201000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
R554, R556	2	51	RC0201JR-0751RL	Yageo America	RES, 51, 5%, 0.05 W, 0201	0201
R557, R558, R560, R561, R569, R570, R572, R573	8	95.3	CRCW040295R3FKED	Vishay-Dale	RES, 95.3, 1%, 0.063 W, 0402	0402
R564, R565, R567, R568, R578, R579, R583, R584	8	105	CRCW0402105RFKED	Vishay-Dale	RES, 105, 1%, 0.063 W, 0402	0402



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
S1, S2	2		147873-2	TE Connectivity	Switch, SPST, Off-On, 50 mA, 24V, SMD	6x3.5mm
T1, T2, T4, T6, T8, T13, T15, T20, T22, T31, T33, T35, T37, T39, T43, T45	16		1720BL15B0050E	Johanson Technology Inc.	BALUN 625MHZ-2.8GHZ 50/50 0805	0805
T3, T5, T7, T9, T10, T11, T12, T14, T16, T21, T23, T24, T25, T26, T27, T29, T30, T32, T34, T36, T38, T40, T44, T46	24		1720BL15A0100E	Johanson Technology Inc.	BALUN 625MHZ-2.8GHZ 50/100 0805	0805
T17, T28	2		B0430J50100AHF	Anaren	Transformer, Multi-layer balun, SMD	1.3x0.78x2.14 mm
T18, T19, T41, T42	4		NCR2-113+	Minicircuits	RF Transformer, 50 Ohm, 3W, SMT	2.01x2.49mm
T47	1		TC1-1-13M+	Mini-Circuits	RF Transformer	
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP13, TP29, TP51	10		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP8, TP9, TP10, TP11, TP12, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP40, TP41, TP42, TP43, TP44, TP45, TP46, TP47, TP48, TP49, TP50, TP52, TP53, TP54, TP55	45	STD	STD	STD	Test Point, 0.025"	
TP56, TP57, TP58, TP59, TP60, TP61	6		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1, U4	2		LMX2594RHAR	Texas Instruments	High Performance, Wideband PLLatinum RF Synthesizer, RHA0040A (VQFN-40)	RHA0040A
U2, U5	2		DS90LV028AQMA	Texas Instruments	Automotive LVDS Dual Differential Line Receiver, 8-pin Narrow SOIC	M08A
U3, U6	2		AFE7444IABJ	Texas Instruments	Quad-Channel RF Sampling Transceiver with 14-bit 9-GSPS DACs and 14-bit 3-GSPS ADCs, ABJ0400A (DSBGA-400)	ABJ0400A
U7	1		LMK04828BISQE/NOPB	Texas Instruments	LMK04828BISQE/NOPB	
U8	1		NB7V33MMNTXG	ON Semiconductor	1.8V / 2.5V, 10GHz ±4 Clock Divider with CML Outputs, QFN-16	3x3mm 16-QFN
U9	1		24C65-I/SM	Microchip	64K I2C Smart Serial EEPROM, SOIC-8	SOIC-8, 208mil wide
U10, U11, U12, U13, U14, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31, U34, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52, U53, U54, U55, U56, U57, U58, U59, U60, U61, U62, U85, U86	46	27 uF	NFM31PC276B0J3L	MuRata	FILTER LC HIGH FREQ 27uF 1206	3.2x1.6mm
U15	1		TPS7A4700RGWR	Texas Instruments	36-V, 1-A, 4.17-uVRMS, RF LDO Voltage Regulator, RGW0020A (VQFN-20)	RGW0020A
U32, U35, U38, U39, U40, U64, U66, U74	8		TXS0108ERGYR	Texas Instruments	8-Bit Bidirectional Voltage-Level Shifter For Open-Drain And Push-Pull Application, RGY0020A (VQFN-20)	RGY0020A
U33	1		LP5907MFX-3.3/NOPB	Texas Instruments	250-mA Ultra-Low-Noise, Low-IQ LDO, DBV0005A (SOT-23-5)	DBV0005A
U36	1		FT4232HL-REEL	FTDI	Quad High Speed USB to Multipurpose UART/MPSSE IC	LQFP_10x10mm
U37	1		93LC46BT-I/SN	Microchip	1K Microwire Compatible Serial EEPROM	SOIC-8
U63	1		TXS0102DQER	Texas Instruments	2-Bit Bidirectional Voltage-Level Shifter for Open-Drain and Push-Pull Application, DQE0008A (X2SON-8)	DQE0008A
U65, U79	2		TCA9534APWR	Texas Instruments	Remote 8-Bit I2C and Low-Power I/O Expander With Interrupt Output and Configuration Registers, PW0016A (TSSOP-16)	PW0016A
U67, U68	2		RMK-3-1052+	Minicircuits	Frequency Multiplier, 50Ω, Output 6600 to 10500 MHz, SMD	7.87x6.35mm
U69	1		LMK61E2-SIAR	Texas Instruments	Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B	SIA0008B

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U70, U73, U76, U77	4		SN74LVC573ARGYR	Texas Instruments	Octal Transparent D-Type Latches With 3-State Outputs, RGY0020A, LARGE T&R	RGY0020A
U71	1		SN74LVC2G125DCUR	Texas Instruments	Dual Bus Buffer Gate with 3-State Outputs, DCU0008A, LARGE T&R	DCU0008A
U72	1		SN74LVC1G04DCKR	Texas Instruments	Single Inverter, DCK0005A, LARGE T&R	DCK0005A
U75	1		SN74LVC1G3157DBVR	Texas Instruments	1-Channel, 2:1 Analog Switch, DBV0006A (SOT-23-6)	DBV0006A
U78	1		LMK00304SQ/NOPB	Texas Instruments	3.1-GHz Differential Clock Buffer/Level Translator, RTV0032A (WQFN-32)	RTV0032A
U80	1		EP2C+	Minicircuits	Power Splitter/Combiner, 2 Way-0°, 50Ohm, 1800 to 12500 MHz	QFN-24
U81, U82	2		HMM2942A2	TDK	Multilayer Directional Coupler For 2400-2500MHz / 4900-5850MHz, SMD-4	1x0.5mm
U83, U84	2		CDCLVP1102RGTR	Texas Instruments	Low Jitter 1:2 Universal-to-LVPECL Buffer, RGT0016B (VQFN-16)	RGT0016B
Y1	1		TCO-2111-AA 614.4000MHZ	EPSON TOYOCOM		
Y2	1		ABM3-12.000MHZ-D2Y-T	Abracon Corporation	Crystal, 12 MHz, 18 pF, SMD	ABM3
Z_FANHEATSINK 1, Z_FANHEATSINK 2	2		MC25060V1-000U-A99	SUNON	FAN AXIAL 25X6.9MM 5VDC WIRE	
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
L3, L7, L11, L15, L19, L23, L27, L31, L51, L55, L59, L63, L67, L71, L75, L79	0	3.3nH	LQG15HS3N3S02D	MuRata	Inductor, Multilayer, Air Core, 3.3 nH, 0.3 A, 0.17 ohm, SMD	0402 polarized
L5, L6, L9, L10, L13, L14, L17, L18, L21, L22, L25, L26, L29, L30, L33, L34, L53, L54, L57, L58, L61, L62, L65, L66, L69, L70, L73, L74, L77, L78, L81, L82	0	15nH	LQG15HS15N02D	MuRata	Inductor, Multilayer, Air Core, 15 nH, 0.3 A, 0.32 ohm, SMD	0402 polarized
R23, R30, R182, R189	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R25, R27, R29, R32, R184, R186, R188, R191, R518, R519, R522, R523, R526, R527, R531, R532, R552, R559, R566, R571, R581	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R39, R40, R43, R45, R46, R49, R53, R198, R202, R204, R206, R208, R210, R461, R463, R465, R493	0	0	EXB-2HVR000V	Panasonic	RES, 0, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1
R58, R59, R67, R68, R76, R77, R85, R86, R94, R95, R103, R104, R112, R113, R121, R122, R126, R131, R137, R139, R143, R145, R146, R149, R150, R153, R154, R157, R158, R217, R218, R226, R227, R235, R236, R244, R245, R253, R254, R262, R263, R271, R272, R280, R281, R285, R290, R296, R298, R302, R304, R305, R308, R309, R312, R313, R316, R317, R375, R376, R377, R378, R468, R471, R481, R482	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R127, R136, R286, R295	0	100	ERJ-1GEF1000C	Panasonic	RES, 100, 1%, 0.05 W, 0201	0201
R128, R134, R287, R293	0	49.9	ERJ-2RKF49R9X	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R200, R212	0	0	EXB-28VR000X	Panasonic	RES ARRAY 4 RES ZERO OHM 0804	2x1mm

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