

TIDA-010128 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-010128	Any	Printed Circuit Board	
2	3P3V_RX1, 3P3V_RX2, TP6, TP12, TP13, TP14, TP17, TP18, TP21, TP22, TP23, TP24, TP25, TP26, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP42, TP43, TP46, TP47, TP48, TP49, TP55, TP57, TP58, TP59, TP61, TP63	35		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	BG1, BG2, CALSAT1, CALSAT2, CE_TP1, CE_TP2, RMPCLK1, RMPCLK2, RMPDIR1, RMPDIR2, SYNC1, TP1, TP2, TP3, TP7, TP8, TP9, Vtune_TP1, Vtune_TP2	19		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
4	C1, C13, C14, C27, C35, C47, C48, C61, C161, C173, C174, C187, C195, C207, C208, C221, C384, C385, C386, C387, C388, C389, C390, C412, C422, C435, C492, C500, C504, C507	30	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402	0402
5	C2, C3, C4, C5, C21, C22, C23, C24, C36, C37, C38, C39, C55, C56, C57, C58, C162, C163, C164, C165, C181, C182, C183, C184, C196, C197, C198, C199, C215, C216, C217, C218	32	0.01uF	LLL185R71E103MA01L	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 20%, X7R, 0306	0306
6	C6, C7, C8, C9, C17, C18, C19, C20, C40, C41, C42, C43, C51, C52, C53, C54, C166, C167, C168, C169, C177, C178, C179, C180, C200, C201, C202, C203, C211, C212, C213, C214	32	2200pF	LLL185R71H222MA01L	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 20%, X7R, 0306	0306
7	C10, C15, C44, C49, C170, C175, C204, C209	8	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
8	C11, C16, C45, C50, C171, C176, C205, C210	8	2.4pF	GRM1555C1H2R4CA01D	MuRata	CAP, CERM, 2.4 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
9	C25, C28, C31, C32, C33, C34, C59, C62, C65, C66, C67, C68, C185, C188, C191, C192, C193, C194, C219, C222, C225, C226, C227, C228	24	0.1uF	C1005X5R1A104K050BA	TDK	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X5R, 0402	0402
10	C29, C30, C63, C64, C189, C190, C223, C224	8	10uF	TPSA106K010R0900	AVX	CAP, TA, 10 µF, 10 V, +/- 10%, 0.9 ohm, SMD	3216-18
11	C69, C74, C82, C83, C109, C229, C234, C242, C243, C269, C321, C325, C334, C341, C391, C392, C394, C396, C399, C401, C402, C407, C408, C413, C415, C417, C419, C423, C424, C436, C437, C438	32	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 20%, X7R, 0402	0402
12	C70, C132, C133, C159, C160, C230, C292, C293, C319, C320, C475, C476, C484	13	1uF	C1608X5R1A105K080AC	TDK	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0603	0603
13	C71, C72, C73, C75, C76, C77, C78, C79, C80, C81, C84, C85, C86, C87, C88, C89, C96, C98, C100, C101, C102, C103, C104, C105, C106, C110, C111, C112, C113, C114, C115, C118, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C150, C151, C152, C153, C154, C155, C156, C157, C158, C231, C232, C233, C235, C236, C237, C238, C239, C240, C241, C244, C245, C246, C247, C248, C249, C256, C258, C260, C261, C262, C263, C264, C265, C266, C270, C271, C272, C273, C274, C275, C278, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C310, C311, C312, C313, C314, C315, C316, C317, C318, C483	131	0.1uF	GRM033C71A104KE14D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7S, 0201	0201
14	C92, C93, C252, C253	4	4700pF	GRM155R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402	0402
15	C107, C116, C117, C267, C276, C277	6	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
16	C108, C119, C134, C149, C268, C279, C294, C309, C482	9	10uF	293D106X0010B2TE3	Vishay-Sprague	CAP, TA, 10 µF, 10 V, +/- 20%, 2.5 ohm, SMD	3528-21
17	C147, C485, C596, C605, C609, C622, C625, C629, C633, C658, C659, C670, C671, C689, C700, C709, C718	17	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603

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18	C148, C431, C441, C442, C443, C444, C445, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C458, C459, C460, C461, C462, C463, C464, C465, C467, C468, C469, C472, C489, C737, C738, C741	33	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
19	C307	1	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 uF, 6.3 V,+/- 10%, X5R, 0201	0201
20	C308	1	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V,+/- 20%, X7R, 0402	0402
21	C322, C338, C352, C368	4	0.01uF	520L103KT16T	AT Ceramics	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
22	C323, C324, C326, C332, C333, C340, C343, C353, C354, C356, C362, C363, C370, C373, C470, C473	16	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
23	C327, C328, C331, C348, C349, C350, C357, C358, C361, C378, C379, C380	12	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
24	C329, C330, C359, C360, C432	5	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	0805
25	C335, C365	2	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
26	C337, C367	2	0.056uF	C0603C563J4RACTU	Kemet	CAP, CERM, 0.056 uF, 16 V, +/- 5%, X7R, 0603	0603
27	C339, C369	2	1500pF	06031C152JAT2A	AVX	CAP, CERM, 1500 pF, 100 V, +/- 5%, X7R, 0603	0603
28	C342, C344, C345, C346, C347, C372, C374, C375, C376, C377	10	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
29	C355, C364, C371, C509, C510	5	470pF	GRM1555C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
30	C381	1	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10 uF, 16 V, +/- 20%, X5R, 0603	0603
31	C382, C420, C428, C429, C430, C433, C439, C440	8	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	0402
32	C383, C421, C434, C508, C511	5	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
33	C393	1	3900pF	0201ZD392KAT2A	AVX	CAP, CERM, 3900 pF, 10 V, +/- 10%, X5R, 0201	0201
34	C395	1	47pF	GRM0335C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, COG/NP0, 0201	0201
35	C397, C400, C403, C404	4	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X5R, 0201	0201
36	C398	1	0.68uF	C1005X5R1A684K050BB	TDK	CAP, CERM, 0.68 uF, 10 V, +/- 10%, X5R, 0402	0402
37	C411	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0402	0402
38	C414	1	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
39	C416	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	0402
40	C418	1	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, COG/NP0, 0402	0402
41	C425, C426, C427	3	33pF	C0603C330J5GACTU	Kemet	CAP, CERM, 33pF, 50V, +/-5%, COG/NP0, 0603	0603
42	C446	1	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	0402
43	C457, C466, C736	3	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
44	C471, C474	2	100uF	GRM32ER61A107ME20L	MuRata	CAP, CERM, 100 uF, 10 V, +/- 20%, X5R, 1210	1210
45	C477, C478, C479, C723	4	1uF	08053D105KAT2A	AVX	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
46	C480, C481	2	1000pF	06031C102MAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 20%, X7R, 0603	0603
47	C486, C597, C610, C626, C630, C634	6	33uF	C3216X5R1E336M160AC	TDK	CAP, CERM, 33 uF, 25 V, +/- 20%, X5R, 1206	1206
48	C487, C494, C496, C497, C498, C537, C539, C540, C541, C598, C600, C602, C603, C604, C606, C611, C623, C627, C631, C635, C643, C644, C645, C646, C663, C665, C672, C674, C690, C693, C703, C705, C706, C707, C712, C715, C721	37	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, 1206_190	1206_190
49	C488, C599, C607, C612, C624, C628, C632, C636, C664, C666, C673, C675, C694, C704, C713, C722	16	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
50	C495, C538, C601, C647, C695, C696, C697	7	22uF	JMK212BJ226MG-T	Taiyo Yuden	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0805	0805
51	C501, C544, C608, C654, C698	5	3300pF	GRM1885C1H332JA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
52	C512	1	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V,+/- 10%, X7R, 0402	0402
53	C513, C514, C515, C520, C521, C525, C526, C527	8	0.5pF	GRM1555C1HR50WA01	MuRata	CAP, CERM, 0.5 pF, 50 V,+/- 10%, COG/NP0, 0402	0402
54	C516, C517, C523, C587, C588, C594, C613, C614, C620, C655, C656, C668	12	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	0805
55	C518, C519, C589, C590, C615, C616, C657, C660, C714	9	47uF	GRM219R60G476ME44D	MuRata	CAP, CERM, 47 uF, 4 V, +/- 20%, X5R, 0805	0805
56	C522, C524, C593, C595, C619, C621, C667, C669, C716	9	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
57	C528, C529, C530, C531, C532, C533, C534, C535, C536, C542, C543, C546, C548, C550, C552, C553, C554, C555, C556, C561, C562, C563, C564, C566, C567, C570, C572, C574, C576, C578, C580, C582	32	100nF	885012206095	Würth Elektronik	WCAP-CSGP Ceramic Capacitors, 0603, X7R, 50V, 100nF	603
58	C545, C547, C549, C551	4	1uF	885012206052	Würth Elektronik	WCAP-CSGP Ceramic Capacitors, 0603, X7R, 16V, 1uF	603
59	C573, C575, C577, C579, C581	5	10uF	885012208069	Würth Elektronik	WCAP-CSGP Ceramic Capacitors, 1206, X7R, 25V, 10uF	1206
60	C739, C740	2	16pF	GRM1885C2A160JA01D	MuRata	CAP, CERM, 16 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
61	D1, D3, D6, D8	4	Orange	LTST-C190KFKT	Lite-On	LED, Orange, SMD	1.6x0.8x0.8mm

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62	D2, D4, D7, D9	4	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
63	D5, D10	2	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
64	D11, D12, D13, D14, D15, D16, D17, D21	8	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED_0603
65	D18	1	Green	150080GS75000	Würth Elektronik	LED, Green, SMD	LED_0805
66	D19	1	15V	SMBJ15CA	Fairchild Semiconductor	Diode, TVS, Bi, 15 V, 24.4 Vc, SMB	SMB
67	D20	1	30V	MBR130T1G	ON Semiconductor	Diode, Schottky, 30 V, 1 A, SOD-123	SOD-123
68	FID1, FID2, FID3, FID4, FID5, FID6	6	N/A	N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
69	H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12	12		PMSSS 440 0038 PH	B&F Fastener Supply	MACHINE SCREW PAN PHILLIPS 4-40	MACHINE SCREW PAN PHILLIPS 4-40
70	H13, H14	2		V2017B	Assman WSW	Heatsink, 10X10X7 mm	Heat Sink, 10X10X7mm
71	J1, J2, J3, J4, J8, J9, J12, J15, J19, J20, J26, J27, J29, J56, J57, J61, J74, OSCinM1, OSCinM2, OSCinM3, OSCinP1, OSCinP2, OSCinP3	23		142-0701-201	Emerson Network Power	Connector, TH, SMA	SMA
72	J5, J16, J34, J40	4		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
73	J6, J7, J11, J17, J18, J22, J35, J36, J37, J38, J41, J42, J43, J44, J45, J47, J49, J50, J52, J54, J64, J67, J68, J78, J79, J82, J83, J84	28		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
74	J10, J21	2		142-0701-201	Cinch Connectivity	Connector, SMA, TH	SMA
75	J13, J14, J30, J73, J76, J77, J80, J81	8		142-0771-831	Johnson	JACK, SMA, 50 Ohm, Gold, Edge Mount	JACK, SMA, 50 Ohm, Gold, Edge Mount
76	J23, J24, J25	3		800-10-004-10-001000	Mill-Max	Header, 100mil, 4x1, TH	Header, 4x1, 100mil, TH
77	J28	1		32K101-400L5	Rosenberger	SMA, 50 Ohm, Gold, TH	SMA, TH
78	J31, J32, J39	3		61301021121	Würth Elektronik	Header, 2.54 mm, 5x2, Gold, TH	Header, 2.54mm, 5x2, TH
79	J33	1		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
80	J46, J51	2		ASP-184330-01	SAMTEC	14 ROW .050 PITCH TERMINAL ARRAY ASM.	
81	J48, J53	2		5-146278-4	TE Connectivity	Header, 100mil, 4x1, Tin, TH	Header, 4x1, 100mil, TH
82	J55	1		RAPC722X	Switchcraft	Power Jack, mini, 2.1mm OD, R/A, TH	Jack, 14.5x11x9mm
83	J58, J63	2		PEC06DAAN	Sullins Connector Solutions	Header, 100mil, 6x2, Tin, TH	Header, 6x2, 100mil, Tin
84	J59, J60	2		TSW-116-07-G-D	Samtec	Header, 100mil, 16x2, Gold, TH	16x2 Header
85	J62	1		802-10-006-10-001000	Mill-Max	Header, 2.54 mm, 3x2, Gold, TH	Header, 2.54 mm, 3x2, TH
86	J71, J75	2		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
87	J72	1		651305142821		WR-COM Mini USB 2.0 Type AB SMT Horizontal 5 Contacts	
88	J85	1		800-10-005-10-001000	Mill-Max	Header, 100mil, 5x1, TH	Header, 5x1, 100mil, TH
89	L1, L3, L5, L7, L9, L11, L13, L15	8	5.6nH	LQW18AN5N6D10D	MuRata	Inductor, Wirewound, 5.6 nH, 0.9 A, 0.045 ohm, SMD	Inductor, 1.6x0.8x0.8mm
90	L2, L4, L6, L8, L10, L12, L14, L16	8	3.9nH	0603HC-3N9XJLU	Coilcraft	Inductor, Wirewound, Ceramic, 3.9 nH, 2.2 A, 0.054 ohm, SMD	0603
91	L17, L18, L19, L20	4	18nH	LQG15HS18NJO2D	MuRata	Inductor, Multilayer, Air Core, 18 nH, 0.3 A, 0.36 ohm, SMD	0402 polarized
92	L22, L23, L24, L25, L26, L27, L28, L29, L30, L31	10	120 ohm	BLM18AG121SN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0603	0603
93	L32, L33, L34	3	26 ohm	BLM18SG260TN1D	MuRata	Ferrite Bead, 26 ohm @ 100 MHz, 6 A, 0603	0603
94	L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L72, L73	15	1000 ohm	BLM41PG102SN1L	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 1.5 A, 1806	1806
95	L52, L53, L54, L55, L56, L61, L63, L65, L67	9	120 ohm	BLM18SG121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
96	L57, L58, L59, L68, L69	5	880Ω	74279252		WE-CBF SMD EMI Suppression Ferrite Bead, 1812, 880Ω	
97	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
98	Q1, Q2	2	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
99	Q3	1	20V	CSD15571Q2	Texas Instruments	MOSFET, N-CH, 20 V, 10 A, DQK0006C (WSON-6)	DQK0006C
100	R1, R3, R25, R27, R82, R84, R106, R108, R556, R557, R565, R566, R574, R575, R583, R584	16	2.00k	CRCW040222K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
101	R4, R18, R28, R42, R85, R99, R109, R123	8	4.99	CRCW04024R99FKED	Vishay-Dale	RES, 4.99, 1%, 0.063 W, 0402	0402
102	R6, R16, R30, R40, R87, R97, R111, R121	8	127	CRCW0402127RFKED	Vishay-Dale	RES, 127, 1%, 0.063 W, 0402	0402
103	R8, R12, R32, R36, R89, R93, R113, R117	8	22.6	CRCW040222R6FKED	Vishay-Dale	RES, 22.6, 1%, 0.063 W, 0402	0402
104	R9, R10, R13, R14, R23, R24, R33, R34, R37, R38, R47, R48, R68, R69, R78, R79, R90, R91, R94, R95, R104, R105, R114, R115, R118, R119, R128, R129, R149, R150, R159, R160, R178, R184, R185, R203, R219, R225, R226, R244, R245, R246, R247, R248, R249, R250, R251, R254, R255, R262, R263, R264, R270, R272, R277, R280, R285, R287, R293, R295, R303, R304, R306, R310, R313, R314, R315, R316, R317, R318, R320, R322, R325, R343, R346, R350, R355, R356, R357, R359, R360, R361, R390, R391, R413, R414, R474, R477, R479, R482, R496, R509, R519, R520, R522, R523, R524, R587, R588, R589, R636, R638, R639, R640, R641, R642, R643, R644, R645	109	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
105	R11, R15, R35, R39, R92, R96, R116, R120	8	40.2	CRCW040240R2FKED	Vishay-Dale	RES, 40.2, 1%, 0.063 W, 0402	0402
106	R20, R21, R44, R45, R101, R102, R125, R126	8	365	CRCW0402365RFKED	Vishay-Dale	RES, 365, 1%, 0.063 W, 0402	0402

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
107	R49, R130, R492	3	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06 k, 1%, 0.063 W, 0402	0402
108	R50, R61, R131, R142, R352, R353, R358	7	1.2k	CRCW04021K20JNED	Vishay-Dale	RES, 1.2 k, 5%, 0.063 W, 0402	0402
109	R51, R62, R132, R143	4	1.00Meg	ERJ-2RKF1004X	Panasonic	RES, 1.00 M, 1%, 0.1 W, 0402	0402
110	R52, R53, R58, R59, R65, R66, R74, R75, R76, R133, R134, R139, R140, R146, R147, R155, R156, R157, R368	19	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
111	R54, R55, R56, R57, R63, R64, R71, R135, R136, R137, R138, R144, R145, R152	14	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
112	R60, R141	2	1.33k	CRCW04021K33FKED	Vishay-Dale	RES, 1.33 k, 1%, 0.063 W, 0402	0402
113	R72, R153	2	2.10k	CRCW04022K10FKED	Vishay-Dale	RES, 2.10 k, 1%, 0.063 W, 0402	0402
114	R73, R154, R267, R344	4	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
115	R77, R158	2	750	CRCW0603750RJNEA	Vishay-Dale	RES, 750, 5%, 0.1 W, 0603	0603
116	R163, R166	2	1.5k	CRCW04021K50JNED	Vishay-Dale	RES, 1.5 k, 5%, 0.063 W, 0402	0402
117	R164, R168, R175, R180, R205, R209, R216, R221	8	50	FC0402E50R0BST1	Vishay-Dale	RES, 50, 0.1%, 0.05 W, 0402	0402
118	R165, R167, R169, R170, R171, R173, R206, R208, R210, R211, R212, R214, R470	13	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
119	R172, R213	2	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
120	R176, R218	2	270	RC0603JR-02720RL	Yageo America	RES, 270, 5%, 0.1 W, 0603	0603
121	R177, R192, R199, R217, R222, R233, R242, R374, R375, R376, R377, R378, R379, R386, R388, R403, R408, R415, R418, R422, R494, R506, R518, R593, R595, R596, R598, R600	28	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
122	R179, R220	2	120	RT0603DRE07120RL	Yageo America	RES, 120, 0.5%, 0.1 W, 0603	0603
123	R182, R183, R223, R224	4	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
124	R187, R196, R227, R237	4	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
125	R190, R231	2	330	RC0603JR-07330RL	Yageo America	RES, 330 ohm, 5%, 0.1W, 0603	0603
126	R194, R201, R235, R240, R475, R476, R480, R481	8	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
127	R258, R259, R268, R269	4	160	CRCW0402160RJNED	Vishay-Dale	RES, 160, 5%, 0.063 W, 0402	0402
128	R273, R274, R276, R279, R282, R283, R288, R289, R292, R294, R299, R300	12	120	CRCW0402120RJNED	Vishay-Dale	RES, 120, 5%, 0.063 W, 0402	0402
129	R275	1	620	RC0201FR-07620RL	Yageo America	RES, 620, 1%, 0.05 W, 0201	0201
130	R278, R290, R301, R302, R309, R392, R401, R551, R552, R560, R561, R569, R570, R578, R579, R646, R647, R650, R651, R654, R655, R658, R659, R662, R663, R666, R667, R670, R671, R674, R675	31	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
131	R281, R291	2	51	RC0201JR-0751RL	Yageo America	RES, 51, 5%, 0.05 W, 0201	0201
132	R284	1	39.0k	RC0201FR-0739KL	Yageo America	RES, 39.0 k, 1%, 0.05 W, 0201	0201
133	R305	1	100	ERJ-1GEF1000C	Panasonic	RES, 100, 1%, 0.05 W, 0201	0201
134	R307, R308	2	294	RC0201FR-07294RL	Yageo America	RES, 294, 1%, 0.05 W, 0201	0201
135	R324, R327	2	18	CRCW040218R0JNED	Vishay-Dale	RES, 18, 5%, 0.063 W, 0402	0402
136	R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R362, R363, R364, R365	16	240	CRCW0402240RJNED	Vishay-Dale	RES, 240, 5%, 0.063 W, 0402	0402
137	R342, R345, R349, R354	4	20.0	CRCW040220R0FKED	Vishay-Dale	RES, 20.0, 1%, 0.063 W, 0402	0402
138	R347, R348, R366, R367	4	220	CRCW0402220RJNED	Vishay-Dale	RES, 220, 5%, 0.063 W, 0402	0402
139	R351	1	82.0	RC0603FR-0782RL	Yageo America	RES, 82.0, 1%, 0.1 W, 0603	0603
140	R369	1	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
141	R370, R371, R372, R373	4	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	0603
142	R380, R381, R382, R383, R384, R385, R406, R429, R430, R431, R544, R545, R546	13	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
143	R393	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, 0402	0402
144	R394, R396, R398, R400, R402, R404, R405, R407, R409, R411, R416, R420, R421, R423, R424, R425, R440, R441, R445, R447, R449, R451, R452, R454, R467, R468	26	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
145	R397, R489, R503, R513, R525	5	100k	CRCW0402100FKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
146	R426, R427, R597, R599	4	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, 0603	0603
147	R432, R433, R434, R435, R436, R437, R438, R439, R455, R456, R458, R459, R461, R462, R464, R465, R485, R543, R549	19	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
148	R469	1	270	CRCW0603270RJNEA	Vishay-Dale	RES, 270, 5%, 0.1 W, 0603	0603
149	R472, R539	2	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
150	R473, R478	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
151	R484	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
152	R487	1	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, 0603	0603

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153	R488	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
154	R491	1	13.7k	CRCW040213K7FKED	Vishay-Dale	RES, 13.7 k, 1%, 0.063 W, 0402	0402
155	R493, R505, R517, R529	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
156	R502	1	6.34k	CRCW04026K34FKED	Vishay-Dale	RES, 6.34 k, 1%, 0.063 W, 0402	0402
157	R504, R535	2	9.09k	CRCW04029K09FKED	Vishay-Dale	RES, 9.09 k, 1%, 0.063 W, 0402	0402
158	R515	1	38.3k	CRCW040238K3FKED	Vishay-Dale	RES, 38.3 k, 1%, 0.063 W, 0402	0402
159	R516, R528	2	11.3k	CRCW040211K3FKED	Vishay-Dale	RES, 11.3 k, 1%, 0.063 W, 0402	0402
160	R527	1	27.4k	CRCW040227K4FKED	Vishay-Dale	RES, 27.4 k, 1%, 0.063 W, 0402	0402
161	R531	1	24.3k	CRCW060324K3FKEA	Vishay-Dale	RES, 24.3 k, 1%, 0.1 W, 0603	0603
162	R532	1	11.5k	CRCW060311K5FKEA	Vishay-Dale	RES, 11.5 k, 1%, 0.1 W, 0603	0603
163	R534	1	28.7k	CRCW040228K7FKED	Vishay-Dale	RES, 28.7 k, 1%, 0.063 W, 0402	0402
164	R536	1	118k	CRCW0402118KFKED	Vishay-Dale	RES, 118 k, 1%, 0.063 W, 0402	0402
165	R537	1	105k	CRCW0402105KFKED	Vishay-Dale	RES, 105 k, 1%, 0.063 W, 0402	0402
166	R541, R548, R550	3	10.0k	RC1206FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.25 W, 1206	1206
167	R542	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12k ohm, 5%, 0.1W, 0603	0603
168	R547	1	2.2k	CRCW06032K20JNEA	Vishay-Dale	RES, 2.2 k, 5%, 0.1 W, 0603	0603
169	R555, R564, R573, R582	4	50	FC0402E50R0BTBST1	Vishay Thin Film	RES, 50, 0.1%, 0.5 W, 0402	0402
170	R614, R618, R622, R626, R630	5	0	CRCW1206000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
171	R631, R632	2	10.0k	RT0603DRE0710KL	Yageo America	RES, 10.0 k, 0.5%, 0.1 W, 0603	0603
172	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12	12		1648-440-AL	RAF Electronic Hardware	3/16 RD X 1-3/16 LENGTH	1.188" (30.18mm) 1 3/16
173	S17	1		L101011MS02Q	C&K Components	SWITCH SLIDE SPST 4A PCB, TH	Slide Switch, TH, SPST
174	T1, T2	2		TC1-1-43X+	Minicircuits	RF Transformer, 50 ohm, SMT	3.81x3.81mm
175	T3	1		TC1-1-13M+	Mini-Circuits	RF Transformer	
176	TP4, TP5, TP10, TP11, TP78, TP79, TP80, TP81	8	STD	STD	STD	Test Point, 0.025"	
177	TP15, TP16, TP20, TP21, TP27, TP28, TP29, TP30, TP50, TP51, TP52, TP53, TP64, TP65, TP66, TP67, TP68, TP69, TP70, TP71, TP72, TP73, TP74, TP75, TP76, TP87, TP88, TP89, TP90, TP91	29		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
178	TP19	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
179	TP77, TP82, TP83, TP84, TP85, TP86	6		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
180	U1, U4, U10, U13	4		LMH5401IRMRSR	Texas Instruments	8GHz Ultra Wideband Fully Differential Amplifier, RMS0014A (UQFN-14)	RMS0014A
181	U2, U5, U11, U14	4		LMH6401IRMZR	Texas Instruments	4.5 GHz Ultra Wideband Digital Variable Gain Amplifier, RMZ0016A (UQFN-HR-16)	RMZ0016A
182	U7	1		LMC6762AIM/NOPB-ND	Texas Instruments	Dual Micro-Power Rail-to-Rail Input CMOS Comparator with Push-Pull Output, 8-pin Narrow SOIC	M08A
183	U8, U17	2		ADC12DJ5200RF	Texas Instruments	10.4-GSPS Single Channel or 5.2-GSPS Dual Channel 12-bit Analog-to-Digital Converter (ADC) Family, AAV0144A (FCBGA-144)	AAV0144A
184	U9	1		LM95233CISD/NOPB	Texas Instruments	Dual Remote Diode and Local Temperature Sensor with SMBus Interface and TruTherm Technology, 15-pin LLP	SDA14B
185	U16	1		LMC6762AIMX	Texas Instruments	Dual Micro-Power Rail-to-Rail Input CMOS Comparator with Push-Pull Output, 8-pin Narrow SOIC	M08A
186	U18	1		LM95233CISD	Texas Instruments	Dual Remote Diode and Local Temperature Sensor with SMBus Interface and TruTherm Technology, 15-pin LLP	SDA14B
187	U19, U21	2		LMX2594RHAR	Texas Instruments	High Performance, Wideband PLLatinum RF Synthesizer, RHA0040A (VQFN-40)	RHA0040A
188	U20, U22	2		DS90LV028AQMA	Texas Instruments	Automotive LVDS Dual Differential Line Receiver, 8-pin Narrow SOIC	M08A
189	U23	1		LMK00304SQ/NOPB	Texas Instruments	3.1-GHz Differential Clock Buffer/Level Translator, RTV0032A (WQFN-32)	RTV0032A
190	U24	1		LMK04828BISQE/NOPB	Texas Instruments	LMK04828BISQE/NOPB	
191	U25	1		LMK61E2-SIAR	Texas Instruments	Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B	SIA0008B
192	U26, U27, U29, U30, U31, U32, U33	7		SN74AVC4T774PWR	Texas Instruments	4-Bit Dual-Supply Bus Transceiver With Configurable Voltage-Level Shifting and 3-State Outputs, PW0016A (TSSOP-16)	PW0016A
193	U28, U54	2		SN74LVC1G125DBVR	Texas Instruments	Single Bus Buffer Gate With 3-State Outputs, DBV0005A (SOT-5)	DBV0005A
194	U34	1		FT4232HL-REEL	FTDI	Quad High Speed USB to Multipurpose UART/MPSS IC	LQFP_10x10mm
195	U35	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
196	U36, U37	2		24C65T-I/SM	MICROCHIP TECHNOLOGY	64K I2C Smart Serial EEPROM, SOIC-8	
197	U38	1		TPS259261DRCR	Texas Instruments	12V, 5A, 30mΩ eFuse with Adjustable +/-15% Accurate Current Limit, DRC0010J (VSON-10)	DRC0010J
198	U39, U42, U45, U48, U51	5		TPS82130SILR	Texas Instruments	3-A 17V Step-down Converter Module with Integrated Inductor, SIL0008D (uSIP-8)	SIL0008D
199	U41, U44, U47	3		TPS7A8400RGRR	Texas Instruments	High-Current (3 A), High-Accuracy (1%), Low-Noise (4.4 μVRMS), LDO Voltage Regulator, RGR0020A (VQFN-20)	RGR0020A

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200	U50	1		TPS7A8300RGR	Texas Instruments	2A, Low-Dropout Voltage Regulator for High Speed Communication Systems, RGR0020A (VQFN-20)	RGR0020A
201	U53	1		TPS7A3301RGWT	Texas Instruments	Single Output High PSRR LDO, 1 A, Adjustable -1.18 to -33 V Output, -3 to -36 V Input, with Ultra-Low Noise, 20-pin VQFN (RGW), -40 to 125 degC, Green (RoHS & no Sb/Br)	RGW0020A
202	U55, U57, U58	3		TCA9534APWR	Texas Instruments	Remote 8-Bit I2C and Low-Power I/O Expander With Interrupt Output and Configuration Registers, PW0016A (TSSOP-16)	PW0016A
203	U56	1		93LC46BT-I/SN	Microchip	1K Microwire Compatible Serial EEPROM	SOIC-8
204	U59, U60, U61, U62	4		BAL-0006SMG	Marki Microwave	Broadband Balun, 500 kHz to 6 GHz	320x320mil
205	U63, U64	2		SN74LVC1G08DCKR	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A (SOT-5)	DCK0005A
206	U65, U66, U67, U68, U69, U70, U71, U72	8		XLF-192+	Minicircuits	Reflectionless Low Pass Filter, SMD	3x3mm
207	U73	1		DS90LT012AQM/NOPB	Texas Instruments	Automotive LVDS Differential Line Receiver, 5-pin SOT-23, Pb-Free	MF05A
208	U74	1		NB7V33MMNTXG	ON Semiconductor	1.8V / 2.5V, 10GHz ±4 Clock Divider with CML Outputs, QFN-16	3x3mm 16-QFN
209	U75	1	SN74LVC2G53DCU	SN74LVC2G53DCU	TI	IC, SPDT Analog Switch	VSSOP8
210	Y1	1		CVHD-950-100.000	Crystek Corporation	VCXO, 100 MHz, 3.3V, SMD	CVHD-950-4
211	Y2	1		ABM3-12.000MHZ-D2Y-T	Abracon Corporation	Crystal, 12 MHz, 18 pF, SMD	ABM3
212	C12, C46, C172, C206	0	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402	0402
213	C26, C60, C186, C220	0	1uF	C1608X5R1A105K080AC	TDK	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0603	0603
214	C90, C91, C97, C99, C250, C251, C257, C259	0	4700pF	GRM155R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402	0402
215	C94, C95, C254, C255, C406, C410	0	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 20%, X7R, 0402	0402
216	C336, C366	0	300pF	GRM1885C2A301JA01D	MuRata	CAP, CERM, 300pF, 100V, +/-5%, COG/NP0, 0603	0603
217	C351, C405	0	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X5R, 0201	0201
218	C409	0	12pF	C0402C120J3GACAUTO	Kemet	CAP, CERM, 12 pF, 25 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0402	0402
219	C490, C491, C493, C499, C502, C503, C505, C506	0	0.1uF	GRM155R71C104JA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0402	0402
220	L21	0	120 ohm	BLM18SG121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
221	L74, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92	0	1000 ohm	BLM41PG102SN1L	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 1.5 A, 1806	1806
222	L75, L76, L77, L78, L79, L80, L81, L82	0	2400-2500MHz	748112024		WE-LPF Multilayer Chip Low-Pass Filter, size 0603, 2400-2500MHz	
223	L93, L94, L95, L96	0	30Ω	742792310		WE-CBF SMD EMI Suppression Ferrite Bead, 1210, 30Ω	
224	R2, R26, R67, R70, R83, R107, R148, R151, R193, R195, R197, R200, R229, R234, R236, R238, R239, R252, R253, R256, R257, R260, R261, R265, R266, R271, R286, R323, R326, R412, R495, R497, R498, R499, R500, R507, R508, R510, R511, R512, R521, R586, R590, R633, R637	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
225	R5, R19, R29, R43, R86, R100, R110, R124, R553, R554, R562, R563, R571, R572, R580, R581	0	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
226	R7, R17, R31, R41, R88, R98, R112, R122	0	1.21k	CRCW04021K21FKED	Vishay-Dale	RES, 1.21 k, 1%, 0.063 W, 0402	0402
227	R22, R46, R103, R127	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
228	R80, R81, R161, R162	0	1.3k	RC0603JR-071K3L	Yageo America	RES, 1.3 k, 5%, 0.1 W, 0603	0603
229	R174, R181, R186, R188, R204, R207, R215	0	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
230	R189, R202, R230, R243	0	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, 0603	0603
231	R191, R198, R232, R241, R296, R387, R389, R410, R417, R419, R442, R443, R530, R594	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
232	R228	0	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
233	R297, R298, R311, R312	0	49.9	CRCW020149R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.05 W, 0201	0201
234	R319, R341	0	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
235	R321, R340	0	130	CRCW0402130RFKED	Vishay-Dale	RES, 130, 1%, 0.063 W, 0402	0402
236	R395, R399	0	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 0, 0201	0201
237	R428, R601, R602, R603	0	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33, 5%, 0.1 W, 0603	0603
238	R483, R558, R559, R567, R568, R576, R577, R585	0	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
239	R486	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
240	R490	0	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, 0402	0402
241	R501	0	3.24k	CRCW04023K24FKED	Vishay-Dale	RES, 3.24 k, 1%, 0.063 W, 0402	0402
242	R514	0	34.8k	CRCW060334K8FKEA	Vishay-Dale	RES, 34.8 k, 1%, 0.1 W, 0603	0603
243	R526	0	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
244	R533	0	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, 0402	0402
245	R591	0	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
246	R592, R604, R605, R606, R607, R608, R609, R610, R648, R649, R652, R653, R656, R657, R660, R661, R664, R665, R668, R669, R672, R673, R676, R677	0	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
247	R634, R635	0	10.0k	RT0603DRE0710KL	Yageo America	RES, 10.0 k, 0.5%, 0.1 W, 0603	0603
248	U3, U6, U12, U15	0		OPA376AIDCKT	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DCK0005A), Green (RoHS & no Sb/Br)	DCK0005A
249	U40, U43, U46, U49, U52	0	27 uF	NFM31PC276B0J3L	MuRata	FILTER LC HIGH FREQ 27uF 1206	3.2x1.6mm

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