Variant: 001
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TIDA-01054 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-01054	Any	Printed Circuit Board	
2	24Vin, GNDin, TP3, TP8, TP25, TP26, TP27, TP28, TP29, TP30, TP_3P3V, TP_3P8V, TP_5P5V, TP_18P5V, TPAGND1, TPAGND2, TPAGND3, TPAGND4, TPGND1, TPGND2, TPGND3, TPGND4, TPV4	23		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
3	C1, C43, C47, C354, C389, C391, C408, Cin, Cin1, Cin2, Cin3, Cout2	12	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
4	C3	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
5	C4	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0603	0603
6	C5	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210	1210
7	C9, C12, C13, C16, C17, C20, Cout4	7	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 µF, 25 V, +/- 20%, X5R, 1206_190	1206_190
8	C10	1	1000pF	CGA3E2X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
9	C11, C42, C45, Cout3	4	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 µF, 100 V, +/- 10%, X7S, 0805	0805
10	C14, C18	2	1000pF	GRM1885C1H102FA01J	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
11	C15, C19, C318, C319, C321, C339, C348, C453, CR479	9	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
12	C21, C22, C57, C58, C59, C60, C261, C262, C271, C272, C284, C287, C288, C289, C290, C291, C304, C305, C306, C307, C308, C338, C343, C345, C347, CR481	26	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	0805
13	C23, C24, C33	3	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
14	C25	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, 0603	0603
15	C26, C28	2	22uF	GRM188R60J226MEA0D	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603	0603
16	C27	1	0.1uF	GRM188R61C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0603	0603
17	C29	1	4.7uF	GRM188R61A475MAAJ	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 20%, X5R, 0603	0603
18	C30	1	0.22uF	GRM188R61A224KA01D	MuRata	CAP, CERM, 0.22 µF, 10 V, +/- 10%, X5R, 0603	0603
19	C31	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
20	C32, C35	2	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
21	C34	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033 µF, 50 V, +/- 10%, X7R, 0603	0603
22	C37	1	910pF	C0603C911J5GACTU	Kemet	CAP, CERM, 910 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
23	C38	1	10pF	CGA3E2C0G1H100D080AA	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
24	C39	1	150pF	GRM1885C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
25	C40	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
26	C41	1	22uF	C2012X5R1V226M125AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 0805	0805
27	C46	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
28	C53, C54, C55, C56, C94, C95, C340, C344, C346, C349, C350	11	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
29	C61, C84, C85, C91, C92, C93, C108, C112, C116, C120, C121, C122, C259, C260, C266, C267, C268, C269, C320, C454, C455, C460	22	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
30	C62, C449, C457, C458, C459	5	10uF	ZRB18AD71A106KE01L	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7T, 0603	0603
31	C63, C64	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402	0402
32	C71, C72, C96, C97	4	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
33	C79, C80, C81, C82, C104, C105, C106, C107	8	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
34	C83	1	68pF	GRM1885C2A680JA01D	MuRata	CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
35	C86, C87, C111, C114	4	390pF	GRM1885C2A391JA01D	MuRata	CAP, CERM, 390 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
36	C88, C119	2	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, 0603	0603
37	C109, C115	2	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
38	C110, C113	2	130pF	GRM1885C2A131JA01D	MuRata	CAP, CERM, 130 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
39	C117, C118, C315	3	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
40	C322, C323	2	22uF	C1608X5R1A226M080AC	TDK	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603	0603
41	C351, C352, C353	3	4.7uF	293D475X9025C2TE3	Vishay-Sprague	CAP, TA, 4.7 µF, 25 V, +/- 10%, 2 ohm, SMD	6032-28
42	C355, C359, C360, C367, C371, C372, C379, C383, C384	9	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
43	C356, C368, C380	3	4.7uF	C3216X7R1V475K085AC	TDK	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X7R, 1206	1206
44	C357, C358, C369, C370, C381, C382	6	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206	1206
45	C361, C373, C385	3	0.47uF	GCM188R71E474KA64D	MuRata	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
46	C362, C375, C388	3	0.1uF	C1005X6S1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X6S, 0402	0402
47	C363, C374, C387	3	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
48	C364, C366, C376, C378	4	22uF	CGA6P1X7R1C226M250AC	TDK	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
49	C401	1	10uF	C3225X7S1H106K250AB	TDK	CAP, CERM, 10 µF, 50 V, +/- 10%, X7S, 1210	1210
50	C402	1	0.1uF	C1608X5R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X5R, 0603	0603
51	C403	1	4.7uF	GRM188R61E475KE11D	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X5R, 0603	0603
52	C404	1	0.47uF	C1608X5R1H474K080AB	TDK	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X5R, 0603	0603
53	C405	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, 0603	0603
54	C406	1	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206	1206
55	C407	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0603	0603
56	C409	1	100pF	885012006057	Wurth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
57	C452	1	0.22uF	0805YC224JAT2A	AVX	CAP, CERM, 0.22 µF, 16 V, +/- 5%, X7R, 0805	0805
58	C461	1	10pF	C0603C100F5GAC7867	Kemet	CAP, CERM, 10 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
59	Cff	1	0.022uF	C1608X7R2A223K080AA	TDK	CAP, CERM, 0.022 µF, 100 V, +/- 10%, X7R, 0603	0603
60	Cff2, Cff3	2	0.022uF	08055C223KAT2A	AVX	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0805	0805
61	Cout1	1	22uF	C2012JB1V226M125AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, JB, 0805	0805
62	Cout5	1	100uF	C3225X6S0J107M250AC	TDK	CAP, CERM, 100 µF, 6.3 V, +/- 20%, X6S, 1210	1210
63	Cout6	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
64	Css	1	4700pF	CGA3E2X7R2A472K080AA	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
65	Css2, Css3	2	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X7R, 0603	0603
66	CVCC3V, CVCC5V, CVCC18V	3	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
67	D1	1	200V	MBRS4201T3G	ON Semiconductor	Diode, Schottky, 200 V, 4 A, SMC	SMC
68	D2	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
69	D14, D18, D21, D22	4	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603
70	FDA1	1		THS4551IRGTR	Texas Instruments	Low Power, Precision, 160MHz, Fully Differential Amplifier, RGT0016A	RGT0016A
71	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
72	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
73	H9, H11, H13, H15	4		9774050360R	Wurth Elektronik	ROUND STANDOFF M3 STEEL 5MM	ROUND STANDOFF M3 STEEL 5MM
74	J3	1		61300311121	Wurth Elektronik eiSos	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
75	J4, J7	2		QTH-030-01-L-D-A	Samtec	Header(Shrouded), 19.7mil, 30x2, Gold, SMT	Header (Shrouded), 19.7mil, 30x2, SMT
76	J5, J6, JMTI_-18V, JPRI_-18V, JSI_3.3V, JSI_5V, JSI_18V, JZI_3.3V, JZI_5V, JZI_18V	10		61300211121	Wurth Elektronik eiSos, Wurth Elektronik eiSos, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik, Wurth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
77	J8	1		691213710002	Wurth Elektronik	Terminal Block, 2x1, Brass, TH	Terminal Block, 2-Leads, Body 10x8.3mm, Pitch 5mm
78	J14, J15, J18, J19	4		901-144-8RFX	Amphenol RF	SMA Straight Jack, Gold, 50 Ohm, TH	SMA Straight Jack, TH
79	J37, J38, J39, JTI_3.3V, JTI_5V, JTI_18V, JTI_-18V	7		TMM-103-01-G-S-SM	Samtec	Header, 2mm, 3x1, Gold, SMT	Header, 2mm, 3x1, SMT
80	L1	1	330uH	DR73-331-R	Coiltronics	Inductor, Shielded Drum Core, Ferrite, 330 µH, 0.42 A, 1.59 ohm, SMD	DR73
81	L4, L5, L6, L7, L8, L9, L10, L12, L16, L17, L18, L19	12	600 ohm	MPZ2012S601A	TDK	Ferrite Bead, 600 ohm @ 100MHz, 2A, 0805	0805
82	L20, L22, L24	3	3.3uH	NR3015T3R3M	Taiyo Yuden	Inductor, Wirewound, Ferrite, 3.3 µH, 1.21 A, 0.096 ohm, AEC-Q200 Grade 2, SMD	3x3mm
83	L21, L23, L25	3	6.8uH	744025006	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 6.8 µH, 1.1 A, 0.142 ohm, SMD	Inductor, 2.8x2.8x2.8mm
84	L401	1	68uH	744031680	Wurth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 68 µH, 0.22 A, 1.15 ohm, SMD	3.8x1.65x3.8mm
85	OPAN_1, OPAN_2, OPAP_1, OPAP_2	4		OPA827AIDR	Texas Instruments	Low-Noise, High-Precision, JFET-Input OPERATIONAL AMPLIFIER, D0008A	D0008A
86	R3, R4	2	0.22	ERJ-3RQFR22V	Panasonic	RES, 0.22 ohm, 1%, 0.1W, 0603	0603
87	R8, R9, R10, R13, R14, R19, R25, R32, R35, R36, R56, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R211, R212, R213, R223, R225, R226, R232, R233, R234, R235, R240, R248, R250, R252, R259, R262, R279, R280, R284, R288, R454, RB3, RB5, RB18, RMFBN2, RMFBP2	59	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
88	R21	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
89	R22	1	4.70	RT0603DRE074R7L	Yageo America	RES, 4.70, 0.5%, 0.1 W, 0603	0603
90	R40	1	215k	RT0603BRD07215KL	Yageo America	RES, 215 k, 0.1%, 0.1 W, 0603	0603
91	R41	1	23.2k	RG1608P-2322-B-T5	Susumu Co Ltd	RES, 23.2 k, 0.1%, 0.1 W, 0603	0603
92	R42	1	1.65k	RG1608P-1651-B-T5	Susumu Co Ltd	RES, 1.65 k, 0.1%, 0.1 W, 0603	0603
93	R43	1	30.9k	RG1608P-3092-B-T5	Susumu Co Ltd	RES, 30.9 k, 0.1%, 0.1 W, 0603	0603
94	R44	1	2.15k	RT0603BRD072K15L	Yageo America	RES, 2.15 k, 0.1%, 0.1 W, 0603	0603
95	R45	1	52.3k	RT0603BRD0752K3L	Yageo America	RES, 52.3 k, 0.1%, 0.1 W, 0603	0603
96	R46	1	910	RC0603JR-07910RL	Yageo America	RES, 910, 5%, 0.1 W, 0603	0603
97	R47	1	18.0k	RT0603BRD0718KL	Yageo America	RES, 18.0 k, 0.1%, 0.1 W, 0603	0603
98	R50, R216	2	20.0k	RG1608P-203-B-T5	Susumu Co Ltd	RES, 20.0 k, 0.1%, 0.1 W, 0603	0603
99	R64, R87	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
100	R88, R89, R91	3	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
101	R92	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
102	R95, R256, R257, R278	4	33	CRCW040233R0JNED	Vishay-Dale	RES, 33, 5%, 0.063 W, 0402	0402
103	R97, R98, R107, R108, R110, R214, R485, R491	8	1.00k	RG1608P-102-B-T5	Susumu Co Ltd	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
104	R99	1	249	CRCW0603249RFKEA	Vishay-Dale	RES, 249, 1%, 0.1 W, 0603	0603
105	R100, R101, R114, R116, RDN2, RDN4, RDP2, RDP4	8	1.00k	RT0603BRB071KL	Yageo America	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
106	R103, R104, R115, R117	4	20.0	RT0603BRD0720RL	Yageo America	RES, 20.0, 0.1%, 0.1 W, 0603	0603
107	R112, R113	2	124	RC0603FR-07124RL	Yageo America	RES, 124, 1%, 0.1 W, 0603	0603
108	R215, R492	2	499	RG1608P-4990-B-T5	Susumu Co Ltd	RES, 499, 0.1%, 0.1 W, 0603	0603
109	R217, R218, R246, R247	4	49.9k	RG1608P-4992-B-T5	Susumu Co Ltd	RES, 49.9 k, 0.1%, 0.1 W, 0603	0603
110	R258, R261	2	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
111	R268, R269	2	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
112	R290	1	36k	CRCW040236K0JNED	Vishay-Dale	RES, 36 k, 5%, 0.063 W, 0402	0402
113	R291, R295, R298	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
114	R294	1	22.6k	CRCW040222K6FKED	Vishay-Dale	RES, 22.6 k, 1%, 0.063 W, 0402	0402
115	R297	1	5.62k	PCF0402-12-5K62BT1	TT Electronics/IRC	RES, 5.62 k, 0.1%, 0.063 W, 0402	0402
116	R401	1	58.3k	RT0603BRD0758K3L	Yageo America	RES, 58.3 k, 0.1%, 0.1 W, 0603	0603
117	R402	1	1.00Meg	RC0603FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.1 W, 0603	0603
118	R404	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, 0603	0603
119	R486	1	2.49k	RG1608P-2491-B-T5	Susumu Co Ltd	RES, 2.49 k, 0.1%, 0.1 W, 0603	0603
120	R488	1	4.99k	RG1608P-4991-B-T5	Susumu Co Ltd	RES, 4.99 k, 0.1%, 0.1 W, 0603	0603
121	R489	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
122	R494	1	30.0k	RG1608P-303-B-T5	Susumu Co Ltd	RES, 30.0 k, 0.1%, 0.1 W, 0603	0603
123	RDN1, RDN3, RDP1, RDP3	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
124	Renb	1	20.5k	CRCW080520K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.125 W, 0805	0805
125	Renb2, Renb3	2	3.57k	RG1608P-3571-B-T5	Susumu Co Ltd	RES, 3.57 k, 0.1%, 0.1 W, 0603	0603
126	Rent	1	118k	RT0805BRD07118KL	Yageo America	RES, 118k ohm, 0.1%, 0.125W, 0805	0805
127	Rent2, Rent3	2	68.1k	RT0603BRD0768K1L	Yageo America	RES, 68.1 k, 0.1%, 0.1 W, 0603	0603
128	RES3V, RES5V, RES18V	3	100k	RG1608P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.1 W, 0603	0603
129	Rfbb	1	1.50k	RG1608P-152-B-T5	Susumu Co Ltd	RES, 1.50 k, 0.1%, 0.1 W, 0603	0603
130	Rfbb3, Rfbb5	2	1.07k	RT0805BRD071K07L	Yageo America	RES, 1.07 k, 0.1%, 0.125 W, 0805	0805
131	Rfbt	1	34.0k	RT0603BRD0734KL	Yageo America	RES, 34.0 k, 0.1%, 0.1 W, 0603	0603
132	Rfbt2	1	6.34k	CPF0603B6K34E	TE Connectivity	RES, 6.34 k, 0.1%, 0.063 W, 0603	0603
133	Rfbt3	1	4.02k	RG1608P-4021-B-T5	Susumu Co Ltd	RES, 4.02 k, 0.1%, 0.1 W, 0603	0603
134	Ron	1	383k	RT0603BRD07383KL	Yageo America	RES, 383 k, 0.1%, 0.1 W, 0603	0603
135	Ron2	1	113k	RT0603BRD07113KL	Yageo America	RES, 113 k, 0.1%, 0.1 W, 0603	0603
136	Ron3	1	78.7k	RT0603BRD0778K7L	Yageo America	RES, 78.7 k, 0.1%, 0.1 W, 0603	0603
137	RR413	1	0.22	ERJ-3RQFR22V	Panasonic	RES, 0.22, 1%, 0.1 W, 0603	0603
138	U1, U2	2		OPA625IDBVR	Texas Instruments	High Bandwidth, High Precision, Low Noise and Distortion Amplifier with Ultra-Fast Transition time Low Power mode, DBV0006A	DBV0006A
139	U3	1		REF6041IDGKR	Texas Instruments	High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A	DGK0008A
140	U3P8V, U5P5V, U18P5V	3		LM53635RNL	Texas Instruments	LM53635, RNL0022A (VQFN-HR-22)	RNL0022A
141	U4	1		OPA376AIDBVR	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A
142	U5	1		LMZ14202TZX-ADJ/NOPB	Texas Instruments	2A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
143	U6, U7, U8	3		TPS7A4700RGWR	Texas Instruments	36-V, 1-A, 4.17-µVRMS, RF LDO Voltage Regulator, RGW0020A	RGW0020A
144	U9	1		LM5574MT	Texas Instruments	SIMPLE SWITCHER® 75V, 0.5A Step-Down Switching Regulator, 16-pin TSSOP	MTC16
145	U10	1		LM7705MM/NOPB	Texas Instruments	Low Noise Negative Bias Generator, 8-pin Mini SOIC, Pb-Free	MUA08A
146	U11	1		TPS7A3001MDGNTEP	Texas Instruments	Single Output High PSRR LDO, 200 mA, Adjustable -1.18 to -33 V Output, -3 to -36 V Input, with Ultra-Low Noise, 8-pin MSOP (DGN), -55 to 125 degC, Green (RoHS & no Sb/Br)	DGN0008D
147	U13, U14	2		BR24G32FVT-3AGE2	Rohm	I2C BUS EEPROM (2-Wire), TSSOP-B8	TSSOP-8
148	U15	1		LMK61E2-SIAR	Texas Instruments	Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B	SIA0008B
149	U18, U31	2		SN74AUP1G80DCKR	Texas Instruments	LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP, DCK0005A	DCK0005A
150	U19, U32	2		SN74AHC1G04DBVR	Texas Instruments	SINGLE SCHMITT-TRIGGER INVERTER GATE, DBV0005A	DBV0005A
151	U22	1		LMZ14201TZX-ADJ/NOPB	Texas Instruments	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
152	U23	1		LMZ14203TZ-ADJ/NOPB	Texas Instruments	3A SIMPLE SWITCHER® Power Module with 42V Maximum Input Voltage, 7-pin TO-PMOD, Pb-Free	TZA07A
153	U33	1		LMK00804BPW	Texas Instruments	Low Skew, 1-to-4 Multiplexed Differential/LVCMOS-to-LVCMOS/TTL Fanout Buffer, PW0016A	PW0016A
154	U401	1		LM46001PWPR	Texas Instruments	SIMPLE SWITCHER 3.5 V to 60 V 1 A Synchronous Step-Down Voltage Converter, PWP0016G (TSSOP-16)	PWP0016G
155	U414	1		OPA378AIDBVT	Texas Instruments	Low-Noise, 900 kHz, RRIO, Precision Operational Amplifier, Zerø-Drift Series, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A
156	U415	1		OPA625IDBVR	Texas Instruments	High-Bandwidth, High-Precision, Low THD+N, 16-Bit and 18-Bit Analog-to-Digital Converter (ADC) Drivers, DBV0006A	DBV0006A
157	U422	1		REF5040AIDGKT	Texas Instruments	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin MSOP (DGK), Green (RoHS & no Sb/Br)	DGK0008A
158	UADS1, UADS2	2		ADS8900BRGER	Texas Instruments	20-Bit, High-Speed SAR ADCs With Integrated Reference Buffer, Integrated LDO, and multiSPI Digital Interface, RGE0024H (VQFN-24)	RGE0024H
159	C89, C90, C316, C317	0	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
160	C335	0	0.01uF	CGA3E2C0G1H103J080AA	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
161	CMFB	0	68pF	GRM1885C2A680JA01D	MuRata	CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
162	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
163	R11, R12, R15, R17, R18, R20, R24, R26, R27, R29, R30, R31, R33, R34, R255, R260, R263, R453, R457, REN0, REN1, RMFBN, RMFBP, RR457	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
164	R90	0	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402