

TIDA-01054 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		TIDA-01054	Any	Printed Circuit Board	
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
C1, C43, C47, C354, C389, C391, C408, Cin, Cin1, Cin2, Cin3, Cout2	12	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, 1210	1210
C3	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
C4	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0603	0603
C5	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 μ F, 10 V, +/- 10%, X7R, 1210	1210
C9, C12, C13, C16, C17, C20, Cout4	7	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 μ F, 25 V, +/- 20%, X5R, 1206_190	1206_190
C10	1	1000pF	CGA3E2X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C11, C42, C45, Cout3	4	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 μ F, 100 V, +/- 10%, X7S, 0805	0805
C14, C18	2	1000pF	GRM1885C1H102FA01J	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C15, C19, C318, C319, C321, C339, C348, C453, CR479	9	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
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 μ F, 10 V, +/- 10%, X7R, 0805	0805

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C23, C24, C33	3	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C25	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, 0603	0603
C26, C28	2	22uF	GRM188R60J226MEA0D	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603	0603
C27	1	0.1uF	GRM188R61C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0603	0603
C29	1	4.7uF	GRM188R61A475MAAJ	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 20%, X5R, 0603	0603
C30	1	0.22uF	GRM188R61A224KA01D	MuRata	CAP, CERM, 0.22 µF, 10 V, +/- 10%, X5R, 0603	0603
C31	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C32, C35	2	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C34	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033 µF, 50 V, +/- 10%, X7R, 0603	0603
C37	1	910pF	C0603C911J5GACTU	Kemet	CAP, CERM, 910 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C38	1	10pF	CGA3E2C0G1H100D080AA	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C39	1	150pF	GRM1885C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C40	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C41	1	22uF	C2012X5R1V226M125AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 0805	0805
C46	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
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
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
C62, C449, C457, C458, C459	5	10uF	ZRB18AD71A106KE01L	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7T, 0603	0603
C63, C64	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402	0402
C71, C72, C96, C97	4	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C79, C80, C81, C82, C104, C105, C106, C107	8	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C83	1	68pF	GRM1885C2A680JA01D	MuRata	CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C86, C87, C111, C114	4	390pF	GRM1885C2A391JA01D	MuRata	CAP, CERM, 390 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C88, C119	2	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, 0603	0603
C109, C115	2	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C110, C113	2	130pF	GRM1885C2A131JA01D	MuRata	CAP, CERM, 130 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C117, C118, C315	3	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C322, C323	2	22uF	C1608X5R1A226M080AC	TDK	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603	0603
C351, C352, C353	3	4.7uF	293D475X9025C2TE3	Vishay-Sprague	CAP, TA, 4.7 µF, 25 V, +/- 10%, 2 ohm, SMD	6032-28

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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
C356, C368, C380	3	4.7uF	C3216X7R1V475K085AC	TDK	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X7R, 1206	1206
C357, C358, C369, C370, C381, C382	6	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206	1206
C361, C373, C385	3	0.47uF	GCM188R71E474KA64D	MuRata	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C362, C375, C388	3	0.1uF	C1005X6S1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X6S, 0402	0402
C363, C374, C387	3	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C364, C366, C376, C378	4	22uF	CGA6P1X7R1C226M250AC	TDK	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
C401	1	10uF	C3225X7S1H106K250AB	TDK	CAP, CERM, 10 µF, 50 V, +/- 10%, X7S, 1210	1210
C402	1	0.1uF	C1608X5R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X5R, 0603	0603
C403	1	4.7uF	GRM188R61E475KE11D	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X5R, 0603	0603
C404	1	0.47uF	C1608X5R1H474K080AB	TDK	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X5R, 0603	0603
C405	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, 0603	0603
C406	1	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206	1206
C407	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0603	0603
C409	1	100pF	885012006057	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C452	1	0.22uF	0805YC224JAT2A	AVX	CAP, CERM, 0.22 µF, 16 V, +/- 5%, X7R, 0805	0805
C461	1	10pF	C0603C100F5GAC7867	Kemet	CAP, CERM, 10 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
Cff	1	0.022uF	C1608X7R2A223K080AA	TDK	CAP, CERM, 0.022 µF, 100 V, +/- 10%, X7R, 0603	0603
Cff2, Cff3	2	0.022uF	08055C223KAT2A	AVX	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0805	0805
Cout1	1	22uF	C2012JB1V226M125AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, JB, 0805	0805
Cout5	1	100uF	C3225X6S0J107M250AC	TDK	CAP, CERM, 100 µF, 6.3 V, +/- 20%, X6S, 1210	1210
Cout6	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
Css	1	4700pF	CGA3E2X7R2A472K080AA	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
Css2, Css3	2	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X7R, 0603	0603
CVCC3V, CVCC5V, CVCC18V	3	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	200V	MBRS4201T3G	ON Semiconductor	Diode, Schottky, 200 V, 4 A, SMC	SMC
D2	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
D14, D18, D21, D22	4	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
FDA1	1		THS4551IRGTR	Texas Instruments	Low Power, Precision, 160MHz, Fully Differential Amplifier, RGT0016A	RGT0016A
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
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
H9, H11, H13, H15	4		9774050360R	Würth Elektronik	ROUND STANDOFF M3 STEEL 5MM	ROUND STANDOFF M3 STEEL 5MM
J3	1		61300311121	Würth Elektronik eiSos	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
J4, J7	2		QTH-030-01-L-D-A	Samtec	Header(Shrouded), 19.7mil, 30x2, Gold, SMT	Header (Shrouded), 19.7mil, 30x2, SMT

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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	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
J8	1		691213710002	Wurth Elektronik	Terminal Block, 2x1, Brass, TH	Terminal Block, 2-Leads, Body 10x8.3mm, Pitch 5mm
J14, J15, J18, J19	4		901-144-8RFX	Amphenol RF	SMA Straight Jack, Gold, 50 Ohm, TH	SMA Straight Jack, TH
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
L1	1	330uH	DR73-331-R	Coiltronics	Inductor, Shielded Drum Core, Ferrite, 330 µH, 0.42 A, 1.59 ohm, SMD	DR73
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
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
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
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
OPAN_1, OPAN_2, OPAP_1, OPAP_2	4		OPA827AIDR	Texas Instruments	Low-Noise, High-Precision, JFET-Input OPERATIONAL AMPLIFIER, D0008A	D0008A
R3, R4	2	0.22	ERJ-3RQFR22V	Panasonic	RES, 0.22 ohm, 1%, 0.1W, 0603	0603

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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
R21	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R22	1	4.70	RT0603DRE074R7L	Yageo America	RES, 4.70, 0.5%, 0.1 W, 0603	0603
R40	1	215k	RT0603BRD07215KL	Yageo America	RES, 215 k, 0.1%, 0.1 W, 0603	0603
R41	1	23.2k	RG1608P-2322-B-T5	Susumu Co Ltd	RES, 23.2 k, 0.1%, 0.1 W, 0603	0603
R42	1	1.65k	RG1608P-1651-B-T5	Susumu Co Ltd	RES, 1.65 k, 0.1%, 0.1 W, 0603	0603
R43	1	30.9k	RG1608P-3092-B-T5	Susumu Co Ltd	RES, 30.9 k, 0.1%, 0.1 W, 0603	0603
R44	1	2.15k	RT0603BRD072K15L	Yageo America	RES, 2.15 k, 0.1%, 0.1 W, 0603	0603
R45	1	52.3k	RT0603BRD0752K3L	Yageo America	RES, 52.3 k, 0.1%, 0.1 W, 0603	0603
R46	1	910	RC0603JR-07910RL	Yageo America	RES, 910, 5%, 0.1 W, 0603	0603
R47	1	18.0k	RT0603BRD0718KL	Yageo America	RES, 18.0 k, 0.1%, 0.1 W, 0603	0603
R50, R216	2	20.0k	RG1608P-203-B-T5	Susumu Co Ltd	RES, 20.0 k, 0.1%, 0.1 W, 0603	0603
R64, R87	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R88, R89, R91	3	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R92	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
R95, R256, R257, R278	4	33	CRCW040233R0JNED	Vishay-Dale	RES, 33, 5%, 0.063 W, 0402	0402
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
R99	1	249	CRCW0603249RFKEA	Vishay-Dale	RES, 249, 1%, 0.1 W, 0603	0603
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
R103, R104, R115, R117	4	20.0	RT0603BRD0720RL	Yageo America	RES, 20.0, 0.1%, 0.1 W, 0603	0603
R112, R113	2	124	RC0603FR-07124RL	Yageo America	RES, 124, 1%, 0.1 W, 0603	0603
R215, R492	2	499	RG1608P-4990-B-T5	Susumu Co Ltd	RES, 499, 0.1%, 0.1 W, 0603	0603
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

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R258, R261	2	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R268, R269	2	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R290	1	36k	CRCW040236K0JNED	Vishay-Dale	RES, 36 k, 5%, 0.063 W, 0402	0402
R291, R295, R298	3	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R294	1	22.6k	CRCW040222K6FKED	Vishay-Dale	RES, 22.6 k, 1%, 0.063 W, 0402	0402
R297	1	5.62k	PCF0402-12-5K62BT1	TT Electronics/IRC	RES, 5.62 k, 0.1%, 0.063 W, 0402	0402
R401	1	58.3k	RT0603BRD0758K3L	Yageo America	RES, 58.3 k, 0.1%, 0.1 W, 0603	0603
R402	1	1.00Meg	RC0603FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R404	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, 0603	0603
R486	1	2.49k	RG1608P-2491-B-T5	Susumu Co Ltd	RES, 2.49 k, 0.1%, 0.1 W, 0603	0603
R488	1	4.99k	RG1608P-4991-B-T5	Susumu Co Ltd	RES, 4.99 k, 0.1%, 0.1 W, 0603	0603
R489	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
R494	1	30.0k	RG1608P-303-B-T5	Susumu Co Ltd	RES, 30.0 k, 0.1%, 0.1 W, 0603	0603
RDN1, RDN3, RDP1, RDP3	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
Renb	1	20.5k	CRCW080520K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.125 W, 0805	0805
Renb2, Renb3	2	3.57k	RG1608P-3571-B-T5	Susumu Co Ltd	RES, 3.57 k, 0.1%, 0.1 W, 0603	0603
Rent	1	118k	RT0805BRD07118KL	Yageo America	RES, 118k ohm, 0.1%, 0.125W, 0805	0805
Rent2, Rent3	2	68.1k	RT0603BRD0768K1L	Yageo America	RES, 68.1 k, 0.1%, 0.1 W, 0603	0603
RES3V, RES5V, RES18V	3	100k	RG1608P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.1 W, 0603	0603
Rfbb	1	1.50k	RG1608P-152-B-T5	Susumu Co Ltd	RES, 1.50 k, 0.1%, 0.1 W, 0603	0603
Rfbb3, Rfbb5	2	1.07k	RT0805BRD071K07L	Yageo America	RES, 1.07 k, 0.1%, 0.125 W, 0805	0805
Rfbt	1	34.0k	RT0603BRD0734KL	Yageo America	RES, 34.0 k, 0.1%, 0.1 W, 0603	0603
Rfbt2	1	6.34k	CPF0603B6K34E	TE Connectivity	RES, 6.34 k, 0.1%, 0.063 W, 0603	0603
Rfbt3	1	4.02k	RG1608P-4021-B-T5	Susumu Co Ltd	RES, 4.02 k, 0.1%, 0.1 W, 0603	0603
Ron	1	383k	RT0603BRD07383KL	Yageo America	RES, 383 k, 0.1%, 0.1 W, 0603	0603
Ron2	1	113k	RT0603BRD07113KL	Yageo America	RES, 113 k, 0.1%, 0.1 W, 0603	0603
Ron3	1	78.7k	RT0603BRD0778K7L	Yageo America	RES, 78.7 k, 0.1%, 0.1 W, 0603	0603
RR413	1	0.22	ERJ-3RQFR22V	Panasonic	RES, 0.22, 1%, 0.1 W, 0603	0603
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
U3	1		REF6041IDGKR	Texas Instruments	High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A	DGK0008A
U3P8V, U5P5V, U18P5V	3		LMS3635MQRNLRQ1	Texas Instruments	3.5A Synchronous Buck Regulator for Automotive Applications, RNL0022A (VQFN-HR-22)	RNL0022A
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
U5	1		LMZ14202TZX-ADJ/NOPB	Texas Instruments	2A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
U6, U7, U8	3		TPS7A4700RGWR	Texas Instruments	36-V, 1-A, 4.17-µVRMS, RF LDO Voltage Regulator, RGW0020A	RGW0020A
U9	1		LM5574MT	Texas Instruments	SIMPLE SWITCHER® 75V, 0.5A Step-Down Switching Regulator, 16-pin TSSOP	MTC16
U10	1		LM7705MM/NOPB	Texas Instruments	Low Noise Negative Bias Generator, 8-pin Mini SOIC, Pb-Free	MUA08A
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
U13, U14	2		BR24G32FVT-3AGE2	Rohm	I2C BUS EEPROM (2-Wire), TSSOP-B8	TSSOP-8
U15	1		LMK61E2-SIAR	Texas Instruments	Ultra-Low Jitter Programmable Oscillator with Internal EEPROM, SIA0008B	SIA0008B
U18, U31	2		SN74AUP1G80DCKR	Texas Instruments	LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP, DCK0005A	DCK0005A
U19, U32	2		SN74AHC1G04DBVR	Texas Instruments	SINGLE SCHMITT-TRIGGER INVERTER GATE, DBV0005A	DBV0005A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U22	1		LMZ14201TZX-ADJ/NOPB	Texas Instruments	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
U23	1		LMZ14203TZ-ADJ/NOPB	Texas Instruments	3A SIMPLE SWITCHER® Power Module with 42V Maximum Input Voltage, 7-pin TO-PMOD, Pb-Free	TZA07A
U33	1		LMK00804BPW	Texas Instruments	Low Skew, 1-to-4 Multiplexed Differential/LVCMOS-to-LVCMOS/TTL Fanout Buffer, PW0016A	PW0016A
U401	1		LM46001PWPR	Texas Instruments	SIMPLE SWITCHER 3.5 V to 60 V 1 A Synchronous Step-Down Voltage Converter, PWP0016G (TSSOP-16)	PWP0016G
U414	1		OPA378AIDBVT	Texas Instruments	Low-Noise, 900 kHz, RRIO, Precision Operational Amplifier, Zero-Drift Series, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A
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
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
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
C89, C90, C316, C317	0	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C335	0	0.01uF	CGA3E2C0G1H103J080AA	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
CMFB	0	68pF	GRM1885C2A680JA01D	MuRata	CAP, CERM, 68 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
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
R90	0	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402