

**TIDA-010065\_ADC\_AIM REV E2 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C3, C4, C8, C11, C12, C17, C19, C20, C22, C24, C52, C57, C63, C64, C70, C78, C81, C95, C97, C101, C103, C105, C142, C143, C146, C147, C200, C202, C203, C204, C205, C208, C212, C214	35	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C2, C9, C18, C55, C61, C68	6	330pF	08055A331KAT2A	AVX	CAP, CERM, 330 pF, 50 V, +/- 10%, C0G/NP0, 0805	0805
C5, C13, C23, C30, C49, C66, C69, C75, C80, C83, C85, C87, C88, C89, C109, C113, C118, C120, C125, C129, C134, C136, C141, C145, C150, C152, C169, C174, C175, C176, C194	31	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C6, C14, C25, C27, C50, C73, C77, C82, C86, C108, C112, C117, C121, C123, C128, C132, C133, C137, C139, C144, C149, C153, C157, C164	24	10uF	GMK325AB7106MM-T	Taiyo Yuden	CAP, CERM, 10uF, 35V, +/-20%, X7R, 1210	1210
C7, C15, C26, C51	4	1000pF	S102K29Y5PN63J5R	Vishay BC Components	CAP CER 1000PF 1KV 10% RADIAL	
C10, C21, C48, C58, C71, C72, C74, C107, C195	9	0.01uF	C1608C0G1E103J080AA	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603
C16, C28	2	22uF	UUD1E220MCL1GS	Nichicon	CAP, AL, 22uF, 25V, +/-20%, 0.76 ohm, SMD	5x5.8

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C29, C36, C39, C40, C41, C115, C116, C122, C130, C156	10	4.7uF	C3216X7R1E475M160AC	TDK	CAP, CERM, 4.7 µF, 25 V, +/- 20%, X7R, 1206	1206
C31, C33, C38, C42, C43, C44, C45, C54, C56, C60, C62, C67	12	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C32, C34	2	10pF	C0603C100J5GACTU	Kemet	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C35, C124, C127, C131, C159, C161, C163	7	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X7R, 0603	0603
C37, C138, C154, C158, C165	5	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
C46	1	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1206	1206
C47	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
C53	1	4.7uF	0603ZD475KAT2A	AVX	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 0603	0603
C59, C187, C209	3	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C65, C172	2	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
C76, C79, C90, C92, C94, C96, C98, C100, C102, C104, C106, C110	12	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C84, C119, C135, C151	4	4.7uF	C2012X5R1H475K125AB	TDK	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	0805
C91	1	0.022uF	GRM188R71C223KA01D	MuRata	CAP, CERM, 0.022 µF, 16 V, +/- 10%, X7R, 0603	0603
C93, C99	2	10uF	GRM32ER71J106KA12L	MuRata	CAP, CERM, 10 µF, 63 V, +/- 10%, X7R, 1210	1210
C114	1	4.7uF	293D475X9025C2TE3	Vishay-Sprague	CAP, TA, 4.7 µF, 25 V, +/- 10%, 2 ohm, SMD	6032-28
C126	1	0.22uF	C0603C224K9RACTU	Kemet	CAP, CERM, 0.22 µF, 6.3 V, +/- 10%, X7R, 0603	0603
C140, C155, C160, C162, C185	5	2.2uF	C0805C225K8RACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0805	0805
C148, C206, C207	3	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0603	0603
C166, C167, C168	3	0.22uF	CGA3E3X7R1H224K080AB	TDK	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C170, C173, C177	3	10uF	T491B106K016AT	Vishay-Sprague	CAP, TA, 10 µF, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C171, C178	2	10uF	GRM31CR61H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X5R, 1206	1206
C179	1	0.1uF	GMK107BJ104KAHT	Taiyo Yuden	0.1µF ±10% 35V Ceramic Capacitor X5R 0603	0603
C180, C181, C182, C183, C184	5	0.1uF	C1608X5R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X5R, 0603	0603
C186, C188, C210	3	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C189	1	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X5R, 1206	1206
C190, C193	2	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
C191	1	20pF	GRM1885C1H200JA01D	MuRata	CAP, CERM, 20 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C192	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 10%, X7R, 1206	1206
C196, C199	2	0.022uF	C0603C223K4RACTU	Kemet	CAP, CERM, 0.022 µF, 16 V, +/- 10%, X7R, 0603	0603
C197, C198	2	22uF	EMK316BB7226ML-T	Taiyo Yuden	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, 1206	1206

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C201	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022uF, 25V, +/-10%, X7R, 0603	0603
D1, D3, D5, D9	4	Green	LG L29K-G2J1-24-Z	OSRAM	LED SmartLED Green 570NM	0603
D2, D11, D22, D31	4	100V	BAV19WS-7-F	Diodes Inc.	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D4, D44	2	20V	MBRM120ET1G	ON Semiconductor	Diode, Schottky, 20 V, 1 A, POWERMITE	POWERMITE
D6, D38	2	15V	DZ2W15000L	Panasonic	Diode, Zener, 15V, 1W, SOD-123	SOD-123
D7, D8, D15, D16, D17, D18, D19, D20, D25, D26, D27, D36, D41, D42, D47, D48, D49, D50, D51, D52	20	DESD1P0R FW-7	DESD1P0RFW-7	Diodes Inc	Diode, P-N, 70V, 0.2A, SOT-323	SOT-323
D21, D23, D32, D33, D37, D39, D43, D45	8	20V	MBR0520L	Fairchild Semiconductor	Diode, Schottky, 20V, 0.5A, SOD-123	SOD-123
D24, D34, D40, D46	4	6.2V	DFLZ6V2-7	Diodes Inc.	Diode, Zener, 6.2V, 1W, PowerDI123	PowerDI123
D53, D55	2	Red	LS L29K-G1J2-1-Z	OSRAM	LED, Red, SMD	SMD, 2-Leads, Body 1.3x0.8mm
D54, D56, D57, D58, D61, D62, D63	7	Green	LG M67K-G1J2-24-Z	OSRAM	LED, Green, SMD	2x1.4mm
D59, D60	2	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
D64	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB14, FB18, FB20, FB22	11	1000 OHM	MMZ1608B102C	TDK Corporation	FERRITE CHIP 1000 OHM 300MA 0603	0603
FB9, FB11, FB12, R67, R68, R69, R70, R79, R80, R81, R82, R90, R91, R92, R93	15	332k	ERJ-8ENF3323V	Panasonic	RES, 332 k, 1%, 0.25 W, 1206	1206
J1, J2, J3, J4	4	PEC02SAA N	PEC02SAAN	Sullins	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2
J5, J6	2		5-146280-2	TE Connectivity	Header, 100mil, 2x1, Gold, TH	2x1 Header
J7, J8	2		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
J11, J12	2		OSTVN02A150	On Shore Technology Inc	Terminal Block, 4x1, 2.54mm, TH	TERM_BLK, 2pos, 2.54mm
J13	1		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
J14, J15, J16, J17	4		ED120/2DS	On-Shore Technology	TERMINAL BLOCK 5.08MM VERT 2POS, TH	TERM_BLK, 2pos, 5.08mm
J28	1		68001-403HLF	FCI	3 pin berger	Connector,RA, Battery 3Pos, 3mm Pitch
JP1	1		5-534206-8	Samtec	Receptacle, 2.54mm, 16x2, Gold, TH	Receptacle, 2.54mm, 16x2, TH
L3, L4	2	4.7uH	VLF504012MT-4R7M	TDK	Inductor, Shielded, Ferrite, 4.7uH, 1.83A, 0.1 ohm, SMD	IND_5x1.2x4mm
Q1	1	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 22 A, DQK0006C (WSON-6)	DQK0006C
Q2	1	60V	CSD18534Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 50 A, DQJ0008A (VSONP-8)	DQJ0008A

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R1, R9, R22	3	0.003	WSLP39213L000FEB	VISHAY DALE	RESISTOR, SMD, 0.003 OHM, 1%, 5W, 3921	
R2, R4, R11, R14, R24, R26, R63, R65, R74, R77, R86, R89	12	12.0	RC0603FR-0712RL	Yageo America	RES, 12.0, 1%, 0.1 W, 0603	0603
R3, R5, R12, R15, R23, R25	6	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
R6, R8, R32, R33, R76, R156	6	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00Meg ohm, 1%, 0.1W, 0603	0603
R7, R21, R28, R29, R49, R50, R55, R105, R172, R175	10	1.00k	CRCW12061K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.25W, 1206	1206
R10, R16, R34, R40, R188	5	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R13, R17, R35, R41, R147, R159, R173, R174, R187, R212, R251	11	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R18, R20, R30, R31, R42, R45, R62, R99, R104, R111, R117, R123, R150, R162, R223	15	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R19, R27, R43, R48, R151, R163, R203, R224	8	10k	CRCW060310K0FKEA	Stackpole Electronics Inc	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R36, R37, R38, R46, R182, R215, R256	7	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R51, R95, R96, R101, R102, R108, R115, R121, R125	9	68.0k	RC0603FR-0768KL	Yageo America	RES, 68.0 k, 1%, 0.1 W, 0603	0603
R53	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R54	1	887k	CRCW0603887KFKEA	Vishay-Dale	RES, 887 k, 1%, 0.1 W, 0603	0603
R56	1	29.4k	CRCW060329K4FKEA	Vishay-Dale	RES, 29.4 k, 1%, 0.1 W, 0603	0603
R57, R94, R98, R100, R103, R106, R110, R112, R116, R118, R122, R124, R148, R152, R157, R161	16	16.0k	RC0603FR-0716KL	Yageo America	RES, 16.0 k, 1%, 0.1 W, 0603	0603
R58, R119, R146, R158	4	34.0k	CRCW060334K0FKEA	Vishay-Dale	RES, 34.0 k, 1%, 0.1 W, 0603	0603
R59, R71, R83, R138	4	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.125W, 0805	0805
R60, R72, R84	3	1.02k	RC1206FR-071K02L	Yageo America	RES SMD 1.02K OHM 1% 1/4W 1206	1206

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R66, R75, R87, R114, R120, R126, R258, R259	8	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R109, R113, R154, R166, R183, R189, R192, R211	8	47k	RC0603JR-0747KL	Yageo America	RES, 47 k, 5%, 0.1 W, 0603	0603
R127	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.25W, 1206	1206
R128, R131, R133, R169, R179, R180, R184, R193, R195, R200, R201, R214, R231, R234, R238, R240, R242, R246, R247	19	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R129	1	576k	CRCW0603576KFKEA	Vishay-Dale	RES, 576 k, 1%, 0.1 W, 0603	0603
R130, R134, R135	3	49.9k	RG1608P-4992-B-T5	Susumu Co Ltd	RES, 49.9 k, 0.1%, 0.1 W, 0603	0603
R132	1	620k	CRCW0603620KFKEA	Vishay-Dale	RES SMD 620K OHM 1% 1/10W 0603	0603
R136	1	1.00	CR0603-J/-1R0ELF	Bourns inc	RES SMD 1 OHM 5% 1/10W 0603	0603
R137	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R139, R153, R155, R164	4	68k	CRCW060368K0JNEA	Vishay-Dale	RES, 68 k, 5%, 0.1 W, 0603	0603
R140	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R143	1	26.7k	CRCW060326K7FKEA	Vishay-Dale	RES, 26.7 k, 1%, 0.1 W, 0603	0603
R149, R160	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R167	1	8.06k	CRCW06038K06FKEA	Vishay-Dale	RES, 8.06 k, 1%, 0.1 W, 0603	0603
R170, R171, R190, R205, R206, R208, R210	7	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300, 5%, 0.1 W, 0603	0603
R176	1	20.0k	ERJ-8ENF2002V	Panasonic	RES, 20.0 k, 1%, 0.25 W, 1206	1206
R177, R178, R197, R221, R222, R225, R245	7	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R185	1	82k	CRCW060382K0JNEA	Vishay-Dale	RES, 82 k, 5%, 0.1 W, 0603	0603
R194	1	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
R202, R204, R235, R236	4	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R207, R209, R253, R254, R255	5	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R213, R243	2	1.0k	RC0603JR-071KL	Yageo America	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R217	1	240k	RC0603FR-07240KL	Yageo America	RES, 240 k, 1%, 0.1 W, 0603	0603
R218	1	53.6k	RC0603FR-0753K6L	Yageo America	RES, 53.6 k, 1%, 0.1 W, 0603	0603
R219	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R220, R232	2	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R226	1	5.62k	RC0603FR-075K62L	Yageo America	RES, 5.62 k, 1%, 0.1 W, 0603	0603

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R227	1	68.1k	CRCW120668K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.25 W, 1206	1206
R228	1	61.9k	RC1206FR-0761K9L	Yageo America	RES, 61.9 k, 1%, 0.25 W, 1206	1206
R229	1	1.07k	ERA-3AEB1071V	Panasonic	RES SMD 1.07KOHM 0.1% 1/10W 0603	0603
R230	1	11.8k	CRCW120611K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.25 W, 1206	1206
R237	1	27.0k	RC0603FR-0727KL	Yageo America	RES, 27.0 k, 1%, 0.1 W, 0603	0603
R239	1	24.0k	RC0603FR-0724KL	Yageo America	RES, 24.0 k, 1%, 0.1 W, 0603	0603
R241	1	0.5	RL1220S-R50-F	Susumu Co Ltd	RES, 0.5, 1%, 0.33 W, 0805	0805
R244, R248	2	499	CRCW0402499RFKED	Vishay-Dale	RES, 499 ohm, 1%, 0.063W, 0402	0402
R249	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
R252	1	470k	RC0603FR-07470KL	Yageo America	RES, 470 k, 1%, 0.1 W, 0603	0603
S1	1		PTS820 J20M SMTR LFS	C&K Components	Switch, SPST-NO, Off-Mom, 0.05A, 12VDC, SMD	3.9x2.9mm
SH-J1, SH-J2, SH-J13, SH-J14	4		881545-2	TE Connectivity	Shunt, 100mil, Gold plated, Black	Shunt 2 pos. 100 mil
T1, T2, T3, T5	4	469uH	750342271	Würth Electronics Midcom	Transformer 469uH SMD	10.05mm L x 6.73mm W
TP1, TP2, TP4, TP5, TP7, TP8, TP15, TP16	8	5001	5001	Keystone	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch
TP3, TP6, TP29, TP33, TP34, TP38, TP39, TP41, TP42, TP43, TP45, TP47	12	Double	1573-2	Keystone	Terminal, Turret, TH, Double	Keystone1573-2
TP9, TP10, TP11, TP12, TP13, TP14, TP17, TP19, TP20, TP52	10	STD	STD	STD	Test Point, O.040 Hole	
TP18, TP22, TP31, TP35	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP23, TP24, TP25, TP40, TP44, TP46	6	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP26, TP27, TP30, TP32, TP37, TP48, TP49, TP50, TP51	9		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP28	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP36	1	STD	STD	STD	Test Point, O.025"	
U1, U3, U5	3		AMC1302DWVR	Texas Instruments	Precision Reinforced Isolated Amplifier for Current Sensing, DWV0008A (SOIC-8)	DWV0008A
U2, U4, U6, U10	4		SN6505BDBVR	Texas Instruments	LOW-NOISE 1A TRANSFORMER DRIVERS FOR ISOLATED POWER SUPPLIES, DBV0006A	DBV0006A
U7, U8, U23	3		LM2903DR	Texas Instruments	Dual Comparator, D0008A	D0008A
U9	1		OPA2990IDR	Texas Instruments	1MHz, 40-V rail-to-rail input/output, low-offset-voltage, low-power op amp, D0008A (SOIC-8)	D0008A
U11	1		ISO224DWVR	Texas Instruments	Reinforced Isolated Amplifier with Wide Input Voltage Range and Differential Output, DWV0008A (SOIC-8)	DWV0008A
U12	1		AMC1300DWV	Texas Instruments	Precision Reinforced Isolated Amplifier for Current Sensing, DWV0008A (SOIC-8)	DWV0008A
U13	1		TLV1117LV33DCYR	Texas Instruments	Single Output LDO, 1 A, Fixed 3.3 V Output, 2 to 5.5 V Input, 4-pin SOT-223 (DCY), -40 to 125 degC, Green (RoHS & no Sb/Br)	DCY0004A

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U14	1		AMC1200BDWVR	Texas Instruments	4.25kV peak Isolated Amplifier for Current Shunt Measurements, DWV0008A (SOIC-8)	DWV0008A
U15	1		OPA2188AID	Texas Instruments	0.03 uV/degC, 6 uV Vos, Low Noise, Rail-to-Rail Output, Zero-Drift Operational Amplifier, 4 to 36 V, -40 to 105 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
U16, U20, U22	3		TLV70450DBV	Texas Instruments	Regulator, LDO, 5V, 0.15A, SOT23-5	DBV0005A
U17	1		OPA2180ID	Texas Instruments	0.1 uV/degC Drift, Low Noise, Rail-to-Rail Output, Zero-Drift Operational Amplifier, 4 to 36 V, -40 to 105 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
U18	1		TPS65131RGET	Texas Instruments	Positive and Negative Output DC-DC Converter, 2.7 to 5.5 V, -40 to 85 degC, 24-pin QFN (RGE24), Green (RoHS & no Sb/Br)	RGE0024B
U19	1		TMP235DCK	Texas Instruments	TMP235DCK, DCK0005A (SOT-5)	DCK0005A
U21	1		TPS26624DRCR	Texas Instruments	7V - 57V, 800mA Industrial eFuse with Integrated Reverse Polarity Protection, DRC0010J (VSON-10)	DRC0010J
U24	1		TPS70950DBVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DBV0005A (SOT-23-5)	DBV0005A
U25	1		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
U26	1		LM27762DSST	Texas Instruments	Low-Noise Regulated Switched-Capacitor Voltage Inverter and Positive LDO, DSS0012B	DSS0012B
U27	1		TPS7A3901DSC	Texas Instruments	Wide-VIN ( $\pm 33$ V), 150-mA, Spilt-Rail Output, Positive and Negative LDO Voltage Regulator with Startup Tracking, DSC0010J	DSC0010J
U28	1		ISO7760DWR	Texas Instruments	High Speed, Robust EMC Six-Channel Digital Isolators, DW0016B (SOIC-16)	DW0016B
U29	1		SN74LVC2G34DRLR	Texas Instruments	Dual Buffer Gate, DRL0006A, LARGE T&R	DRL0006A
U30	1		UCC12050DVER	Texas Instruments	500 mW, High-Efficiency, Low-Emissions, 5 kVRMS Isolated DC-DC Converter, DVE0016A (SO-MOD-16)	DVE0016A
U31	1		TPS22944DCKR	Texas Instruments	LOW-INPUT-VOLTAGE CURRENT-LIMITED LOAD SWITCHES WITH SHUT OFF AND AUTO-RESTART FEATURE, DCK0005A (SOT-5)	DCK0005A
U32	1		SN74LVC1G14DCKR	Texas Instruments	Single Schmitt-Trigger Inverter, DCK0005A (SOT-SC70-5)	DCK0005A
U33, U35	2		SN74LVC1G14DCKR	Texas Instruments	Single Schmitt-Trigger Buffer, DCK0005A, LARGE T&R	DCK0005A
U34, U36, U37	3		SN74LVC1G17DCKR	Texas Instruments	Single Schmitt-Trigger Buffer, DCK0005A, LARGE T&R	DCK0005A
U38	1		LM74700QDBVTQ1	Texas Instruments	Low Iq Always ON Smart Diode Controller, DBV0006A (SOT-23-6)	DBV0006A
U39	1		TPS3897ADRYR	Texas Instruments	Single-Channel Ultra-Small Adjustable Supervisory Circuit With Active-High Open-Drain Output, DRY0006A (USON-6)	DRY0006A
U40	1		SN74LVC1G125DCKR	Texas Instruments	Single Bus Buffer Gate With 3-State Outputs, DCK0005A, LARGE T&R	DCK0005A
U41	1		LMZ20501SILR	Texas Instruments	SIMPLE SWITCHER(R) 2.7V to 5.5V, 1A High Density Nano Module, SIL0008F (uSIP-8)	SIL0008F
U42	1		CD74HC4051PWT	Texas Instruments	8-channel analog multiplexer/demultiplexer, SOP-16	SSOP-16
U43	1		LMZ14201TZ-ADJ/NOPB	Texas Instruments	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	TZA07A
U44	1		INA333AIDGKR	Texas Instruments	Micro-Power (50mA), Zero-Drift, Rail-to-Rail Out Instrumentation Amplifier	DGK0008A
U45	1		REF3450IDBVR	Texas Instruments	5V Low-Drift Low-Power Small-Footprint Series Voltage Reference, DBV0006A (SOT-23-6)	DBV0006A
U46	1		TMP300BIDCKR	Texas Instruments	Resistor-Programmable, up to 18V-Capable Temp Switch and Analog Out Sensor, DCK0006A (SOT-SC70-6)	DCK0006A
U47	1		DRV5032FBDBZR	Texas Instruments	Ultra-Low Power Digital-Switch Hall Effect Sensor, DBZ0003A (SOP-3)	DBZ0003A
U48	1		SN74LVC1G08DRYR	Texas Instruments	Single 2-Input Positive-AND Gate, DRY0006A, LARGE T&R	DRY0006A
U49	1		SN74LVC1G32DBVR	Texas Instruments	Single 2-Input Positive-OR Gate, DBV0005A, LARGE T&R	DBV0005A
U50	1		TLV9062IDR	Texas Instruments	10-MHz, Low-Noise, RRIO, CMOS Operational Amplifier for Cost-Sensitive Systems, D0008A (SOIC-8)	D0008A
U51	1		REF3425IDBVR	Texas Instruments	2.5V Low-Drift Low-Power Small-Footprint Series Voltage Reference, DBV0006A (SOT-23-6)	DBV0006A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U52	1		INA826AIDGK	Texas Instruments	Precision, 200- $\mu$ A Supply Current, 36-V Supply Instrumentation Amplifier, DGK0008A (VSSOP-8)	DGK0008A
C111, C211	0	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603
C213	0	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
D10, D13	0	100V	BAV19WS-7-F	Diodes Inc.	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D28, D29, D30, D35	0	DESD1P0R FW-7	DESD1P0RFW-7	Diodes Inc	Diode, P-N, 70V, 0.2A, SOT-323	SOT-323
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R39, R44, R47, R52, R97, R107	0	160k	CRCW0603160KFKEA	Vishay-Dale	RES, 160 k, 1%, 0.1 W, 0603	0603
R61, R73, R85	0	2.40k	RC1206FR-072K4L	Yageo America	RES, 2.40 k, 1%, 0.25 W, 1206	1206
R64, R78, R88, R257	0	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R141	0	7.50k	CRCW06037K50FKEA	Vishay-Dale	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R142	0	13.3k	CRCW060313K3FKEA	Vishay-Dale	RES, 13.3 k, 1%, 0.1 W, 0603	0603
R144	0	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
R145	0	267k	CRCW0603267KFKEA	Vishay-Dale	RES, 267 k, 1%, 0.1 W, 0603	0603
R165	0	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R168, R181, R198, R233	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R186, R196	0	47k	RC0603JR-0747KL	Yageo America	RES, 47 k, 5%, 0.1 W, 0603	0603
R191, R250	0	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R199	0	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R216	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603