

## TIDA-010055\_Non-ISO\_AFE-Power+Protection REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C2	1	0.01uF	CGA3E2X7R1H103K080AA	TDK Corporation	CAP, CERM, 0.01 $\mu$ F, 50 V, +/- 5%, X7R, 0603	0603
C3, C4, C123	3	2.2uF	UMK316B7225KL-T	Taiyo Yuden	CAP, CERM, 2.2 $\mu$ F, 50 V, +/- 10%, X7R, 1206	1206
C5, C19, C23, C28, C29, C70, C84, C124, C127, C131	10	0.1uF	C0603X124K5RAC7867	KEMET	CAP, CERM, 0.12 $\mu$ F $\pm$ 10% 50V Ceramic Capacitor X7R 0603	0603
C6, C7	2	100uF	C1210C107M8PACTU	KEMET	CAP, CERM, 100 $\mu$ F, 10 V, +/- 20%, X5R, 1210	1210
C8	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 $\mu$ F, 100 V, +/- 10%, X7R, 0805	0805
C9, C32, C43	3	10uF	GMJ325KB7106KMHP	Taiyo Yuden	CAP, CERM, 10 $\mu$ F $\pm$ 10% 35V Ceramic Capacitor X7R 1210	1210
C10	1	1000pF	885012206034	Wurth Elektronik	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	0603
C16, C17, C25, C26	4	10uF	GRM21BC71E106KE11L	MuRata	CAP, CERM, 10 $\mu$ F, 25 V, +/- 10%, X7S, 0805	0805
C18, C27, C33, C35, C38, C44, C63, C64, C71, C98	10	1uF	CGA3E1X7R1E105K080AC	TDK Corporation	CAP, CERM, 1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C20	1	6.8pF	06035A6R8CAT2A	AVX	CAP, CERM, 6.8 pF, 50 V, +/- 4%, C0G/NP0, 0603	0603
C21	1	0.22uF	EMK107B7224KA-T	Taiyo Yuden	CAP, CERM, 0.22 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C22	1	10uF	GRM21BC71E106KE11L	MuRata	CAP, CERM, 10 $\mu$ F, 25 V, +/- 10%, X7S, 0805	0805
C24	1	5.6pF	C0603C569K5GACTU	KEMET	CAP, CERM, 5.6 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C30	1	4700pF	885012206087	Wurth Elektronik	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
C31	1	0.01uF	885012206040	Wurth Elektronik	CAP, CERM, 0.01 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C34, C37, C39, C41	4	2.2uF	C0805C225K8RACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0805	0805
C36, C40, C42	3	0.01uF	885012206040	Wurth Elektronik	CAP, CERM, 0.01 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C45	1	4.7uF	C3216X7R1E475M160AC	TDK	CAP, CERM, 4.7 $\mu$ F, 25 V, +/- 20%, X7R, 1206	1206
C46, C47, C49, C54, C56, C57, C58, C61, C99, C100, C119, C135, C136, C137, C138, C139	16	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X5R, 0603	0603
C48, C53	2	1uF	CL21B105KPFNNNE	Samsung Electro-Mechanics	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	0805
C50, C51, C52	3	1uF	C2012X7R1H105K125AE	MuRata	CAP, CERM, 1 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C55	1	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	0603
C59	1	1uF	CGB3B3X7R0J105K055AB	TDK Corporation	CAP, CERM, 1 $\mu$ F, 6.3 V, +/- 10%, X7R, 0603	0603
C60, C87, C88, C94, C95, C121	6	10uF	C2012X5R1E106K085AC	TDK Corporation	CAP, CERM, 10 $\mu$ F, 25 V, +/- 10%, X5R, 0805	0805
C65	1	1uF	C3216X7R2A105K160AA	TDK Corporation	CAP, CERM, 1 $\mu$ F, 100 V, +/- 10%, X7R, 1206	1206
C66	1	2.2uF	C3225X7R2A225K230AB	TDK Corporation	CAP, CERM, 2.2 $\mu$ F, 100 V, +/- 10%, X7R, 1210	1210
C67	1	0.022uF	C0603C223K4RACTU	KEMET	CAP, CERM, 0.022 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C68, C69, C78, C101, C104, C105, C133	7	10uF	C3225X7S1H106M250AB	Taiyo Yuden	CAP, CERM, 10 $\mu$ F $\pm$ 20% 50V Ceramic Capacitor X7R 1210	1210
C72, C76	2	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10 $\mu$ F, 16 V, +/- 20%, X5R, 0603	0603
C73, C77	2	0.022uF	08051C223JAT2A	AVX	CAP, CERM, 0.022 $\mu$ F, 100 V, +/- 5%, X7R, 0805	0805
C74	1	2.2uF	C3216X7S2A225K160AB	TDK Corporation	CAP CER 2.2UF 100V X7S 1206	0402

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C75	1	0.47uF	GCM21BR71H474KA55L	Murata Electronics North Ame	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, 0805	0805
C79, C80, C83, C125, C126	5	1uF	UMK107BJ105KA-T	Taiyo Yuden	CAP, CERM, 1UF 50V X5R 0603	0603
C81, C102, C103, C106, C107	5	47uF	EMK316BBJ476ML-T	Taiyo Yuden	CAP, CERM, 47µF ±20% 16V Ceramic Capacitor JB 1206	1206
C82	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C85, C86, C92, C93	4	100pF	06031A101GAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C89, C90, C96, C97	4	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C91	1	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0603	0603
C118	1	0.22uF	0805YC224KAT2A	AVX	CAP, CERM, 0.22 µF, 16 V, +/- 10%, X7R, 0805	0805
C120, C122	2	1000pF	CGA2B2C0G1H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C128, C132	2	22pF	06035A220JAT2A	AVX	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C129, C130	2	22uF	CL31B226MPHNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 µF, 10 V, +/- 10%, X7R, 1206	1206
C134	1	47uF	EMK316BBJ476ML-T	Taiyo Yuden	CAP, CERM, 47 µF, 16 V, +/- 15%, X5R, 1206	1206
D1, D6, D10, D11, D14, D15	6	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
D4	1	SL03	SL04-HE3-08	Vishay	Diode Schottky 40V 1.1A Surface Mount DO-219AB (SMF)	DO-219AB
D7, D8	2	45V	NTS245SFT1G	ON Semiconductor	Diode, Schottky, 45 V, 2 A, AEC-Q101, SOD-123FL	SOD-123FL
D12	1	100V	1N4001RLG	ON Semiconductor	Diode Standard 50V 1A Through Hole DO-41	DO-41
D13	1	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	Red 0805 LED
H1, H2, H3, H4, H5, H6, H7, H8, H9, H10	10		SJ61A1	3M	Bumpon, Cylindrical, 0.312 X 0.200, Black	Black Bumpon
J1, J4, J6, J11, J14, J19, J20, J21	8		1751248	Phoenix Contact	Conn Term Block, 2POS, 3.5mm, TH	11x8.5x7.3mm
J3	1		61300411021	Wurth Elektronik	Header, 2.54 mm, 4x1, Gold, R/A, TH	Header, 2.54 mm, 4x1, R/A, TH
J7, J8, J9, J12, J15, J16, J17, J18	8		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
J10	1		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
J13	1		PEC05DAAN	Sullins Connector Solutions	Header, 100mil, 5x2, Tin, TH	Header, 5x2, 100mil, Tin
L1	1	2.2uH	MLZ1608A2R2WT000	TDK Corporation	2.2µH Shielded Multilayer Inductor 500mA 250mOhm 0603 (1608 Metric)	0603
L2	1	47uH	7447789147	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 47 µH, 0.85 A, 0.315 ohm, SMD	WE-PD-S
L3	1	600 ohm	BLM18KG601SN1D	MuRata	Ferrite Bead, 600 ohm @ 100 MHz, 1.3 A, 0603	0603
L4, L5	2	10uH	74404024100	Wurth Elektronik	Inductor, Wirewound, Ferrite, 10 µH, 0.47 A, 0.435 ohm, SMD	SMD, 2.5x2mm
L7	1	22uH	7447714220	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 22 µH, 3 A, 0.042 ohm, SMD	SMD
L8	1	15uH	74408943150	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 15 uH, 1.4 A, 0.118 ohm, SMD	4.8x3.8x4.8mm
PT1, PT2	2		B59830C0160A070	Raychem	PTC THERMISTOR C 830-A 160-A 70	0.535 x 0.125 inch
Q1	1	60V	CSD18531Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DQJ0008A (VSONP-8)	DQJ0008A
Q2, Q3	2	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
R1	1	1.21k	CRCW06031K21FKEA	Vishay-Dale	RES, 1.21 k, 1%, 0.1 W, 0603	0603
R2, R22, R23, R52	4	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R3	1	113k	CRCW0603113KFKEA	Vishay-Dale	RES, 113 k, 1%, 0.1 W, 0603	0603

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R4	1	16.9k	CRCW060316K9FKEA	Vishay-Dale	RES, 16.9 k, 1%, 0.1 W, 0603	0603
R6, R101, R102	3	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R7	1	3.00k	RC0603FR-073KL	Yageo America	RES, 3.00 k, 1%, 0.1 W, 0603	0603
R8, R9	2	1.00	RC1206FR-071RL	Yageo America	RES, 1.00, 1%, 0.25 W, 1206	1206
R10	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R11	1	1.96k	RC0603FR-071K96L	Yageo America	RES, 1.96 k, 1%, 0.1 W, 0603	0603
R14, R21	2	5.36k	CRCW06035K36FKEA	Vishay-Dale	RES, 5.36 k, 1%, 0.1 W, 0603	0603
R15	1	976k	CRCW0603976KFKEA	Vishay-Dale	RES, 976 k, 1%, 0.1 W, 0603	0603
R16	1	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, 0603	0603
R17	1	105k	CRCW0603105KFKEA	Vishay-Dale	RES, 105 k, 1%, 0.1 W, 0603	0603
R18	1	1.30Meg	CRCW06031M30FKEA	Vishay-Dale	RES, 1.30 M, 1%, 0.1 W, 0603	0603
R19	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R20, R44, R45, R47, R50, R117	6	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R25, R26, R31, R33, R36, R38, R41, R96	8	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R27, R28, R30, R34	4	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R29	1	10k	CRCW060310K0FKEA	Stackpole Electronics Inc	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R32, R37	2	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R35	1	27.0k	RC0603FR-0727KL	Yageo America	RES, 27.0 k, 1%, 0.1 W, 0603	0603
R39	1	24.0k	RC0603FR-0724KL	Yageo America	RES, 24.0 k, 1%, 0.1 W, 0603	0603
R43, R48, R49	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R46	1	2.55k	CRCW06032K55FKEA	Vishay-Dale	RES, 2.55 k, 1%, 0.1 W, 0603	0603
R51	1	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
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
R55, R68, R79	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 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	1	300	RC0603FR-07300RL	Yageo America	RES, 300, 1%, 0.1 W, 0603	0603
R58	1	34.0k	CRCW060334K0FKEA	Vishay-Dale	RES, 34.0 k, 1%, 0.1 W, 0603	0603
R59	1	7.50k	CRCW06037K50FKEA	Vishay-Dale	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R60	1	13.3k	CRCW060313K3FKEA	Vishay-Dale	RES, 13.3 k, 1%, 0.1 W, 0603	0603
R61	1	26.7k	CRCW060326K7FKEA	Vishay-Dale	RES, 26.7 k, 1%, 0.1 W, 0603	0603
R62	1	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
R63	1	267k	CRCW0603267KFKEA	Vishay-Dale	RES, 267 k, 1%, 0.1 W, 0603	0603
R64	1	93.1k	RC0603FR-0793K1L	Yageo America	RES, 93.1 k, 1%, 0.1 W, 0603	0603
R65	1	68.1k	ERJ-6ENF6812V	Panasonic	RES, 68.1 k, 1%, 0.125 W, 0805	0805
R66	1	5.62k	RT0805BRD075K62L	Yageo America	RES, 5.62 k, 0.1%, 0.125 W, 0805	0805
R67	1	150k	RC0603FR-07150KL	Yageo America	RES, 150 k, 1%, 0.1 W, 0603	0603
R69	1	11.8k	ERJ-6ENF1182V	Panasonic	RES, 11.8 k, 1%, 0.125 W, 0805	0805
R70	1	1.07k	ERJ-6ENF1071V	Panasonic	RES, 1.07 k, 1%, 0.125 W, 0805	0805
R71	1	100k	MCU08050C1003FP500	Vishay/Beyschlag	RES, 100 k, 1%, 0.2 W, 0805	0805
R72	1	39.0k	RC0603FR-0739KL	Yageo America	RES, 39.0 k, 1%, 0.1 W, 0603	0603
R73	1	63.4k	RC0603FR-0763K4L	Yageo America	RES, 63.4 k, 1%, 0.1 W, 0603	0603
R74	1	37.4k	RC0603FR-0737K4L	Yageo America	RES, 37.4 k, 1%, 0.1 W, 0603	0603
R75, R85, R99, R100	4	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R76, R103, R104, R111	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R77, R78	2	0.33	CSR1206FKR330	Stackpole Electronics Inc	RES, 0.33, 1%, 0.5 W, 1206	1206
R80	1	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	0603
R81	1	1.37k	RC0603FR-071K37L	Yageo America	RES, 1.37 k, 1%, 0.1 W, 0603	0603
R82	1	16.5k	RC0603FR-0716K5L	Yageo America	RES, 16.5 k, 1%, 0.1 W, 0603	0603

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R83	1	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
R84	1	6.98 K	RT0603DRD076K98L	Yageo America	6.98 kOhms $\pm$ 0.5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thin Film	0603
R86, R87, R94, R119	4	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R88, R91, R108	3	102k	CRCW0603102KFKEA	Vishay-Dale	RES, 102 k, 1%, 0.1 W, 0603	0603
R89, R90, R92, R93	4	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.1 W, 0603	0603
R95	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R97, R98	2	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R105	1	402k	CRCW0603402KFKEA	Vishay-Dale	RES, 402 k, 1%, 0.1 W, 0603	0603
R106	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R107	1	133k	CRCW0603133KFKEA	Vishay-Dale	RES, 133 k, 1%, 0.1 W, 0603	0603
R109	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R112	1	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, 0805	0805
S1	1		PTS820 J20M SMTR LFS	C&K Components	Switch, SPST-NO, Off-Mom, 0.05A, 12VDC, SMD	3.9x2.9mm
TP1, TP2, TP5, TP6, TP11, TP15, TP17, TP18, TP19, TP20, TP22, TP23, TP29, TP31, TP34, TP36, TP40, TP43, TP44, TP49	20		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP7, TP8, TP9, TP10, TP12, TP13, TP14, TP16, TP28, TP30, TP33, TP38, TP42, TP45, TP46, TP47, TP48	18		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP21, TP26, TP32, TP35, TP37, TP39, TP41	7		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP24	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		LM5160DNTR	Texas Instruments	Wide Input 65V, 1.5A Synchronous Step-Down DC-DC Converter, DNT0012B	DNT0012B
U2	1		TPS65130RGER	Texas Instruments	Positive and Negative Output DC-DC Converter, RGE0024B	RGE0024B
U3	1		LM27762DSSST	Texas Instruments	Low-Noise Regulated Switched-Capacitor Voltage Inverter and Positive LDO, DSS0012B	DSS0012B
U4	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
U5	1		REF3025AIDBZR	Texas Instruments	2.5 V, 50 ppm / degC, 50 uA Series (Bandgap) Voltage Reference, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U6	1		OPA2376AID	Texas Instruments	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A
U7	1		REF5025AIDGKT	Texas Instruments	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin MSOP(DGK), Green (RoHS & no Sb/Br)	DGK0008A

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U8, U28	2		LM4040AIM3-2.5/NOPB	Texas Instruments	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23, Pb-Free	MF03A
U9	1		LMT84LPM	Texas Instruments	1.5V-Capable, 10 uA Analog Output Temperature Sensor in SC70 and TO-92, LP0003A (TO-92-3)	LP0003A
U10	1		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U11, U16, U19, U22, U46, U47	6		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSO-6)	DRV0006A
U12, U14, U15, U41	4		TVS0500DRVR	Texas Instruments	5-V Precision Surge Protection Clamp, DRV0006A (WSO-6)	DRV0006A
U17	1		TPS26624DRCR	Texas Instruments	7V - 57V, 800mA Industrial eFuse with Integrated Reverse Polarity Protection, DRC0010J (VSON-10)	DRC0010J
U18	1		TPS2115ADRBR	Texas Instruments	AUTOSWITCHING POWER MUX, DRB0008B (VSON-8)	DRB0008B
U20	1		LM76002RNPR	Texas Instruments	SIMPLE SWITCHER 3.5V to 60V 2.5A Synchronous Step-Down Voltage Regulator, RNP0030B (WQFN-30)	RNP0030B
U21	1		LMZ14202TZ-ADJ/NOPB	Texas Instruments	SIMPLE SWITCHER (R) 6V to 42V, 2A Power Module in Leaded SMT-TO Package, NDW0007A (TO-PMOD-7)	NDW0007A
U23	1		LM74610QDGKRQ1	Texas Instruments	Zero Iq Reverse Polarity Protection Smart Diode Controller, DGK0008A (VSSOP-8)	DGK0008A
U24	1		TPS2400DBVR	Texas Instruments	Overvoltage/Undervoltage Protection IC in SOT-23-5, DBV0005A (SOT-23-5)	DBV0005A
U25	1		TLV1117-33IDRJR	Texas Instruments	LDO with 4.7 to 15 V Input and 3.3 V Output, -40 to 125 degC, 8-Pin SON (DRJ), Green (RoHS & no Sb/Br)	DRJ0008A
U26	1		INA211BQDCKRQ1	Texas Instruments	Automotive-Grade, Voltage Output, Low- or High-Side Measurement, Bidirectional, Zero-Drift Series, Current-Shunt Monitor, DCK0006A (SOT-SC70-6)	DCK0006A
U27	1		TPS73801DCQR	Texas Instruments	Single Output Fast Transient Response LDO, 1 A, Adjustable 1.2 to 20 V Output, 2.2 to 20 V Input, 6-pin SOT-223 (DCQ), -40 to 125 degC, Green (RoHS & no Sb/Br)	DCQ0006A
U29	1		TPS3710DSER	Texas Instruments	Wide VIN Voltage Detector, DSE0006A (WSO-6)	DSE0006A
U30	1		TPS3839E16DBZR	Texas Instruments	150-nA, Ultralow Power, Supply Voltage Monitor, DBZ0003A (SOT-23-3)	DBZ0003A
U31	1		TPS3828-33DBVR	Texas Instruments	Voltage Monitor With Watchdog Timer, DBV0005A (SOT-23-5)	DBV0005A
U32, U35	2		LMZM23600SILR	Texas Instruments	36-V 0.5-A Step-Down DC-DC Nano Module, SIL0010A (uSIP-10)	SIL0010A
U34, U36, U38, U39, U48, U49	6		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSO-6)	DRV0006A
U40	1		TVS2700DRVR	Texas Instruments	27-V Precision Surge Protection Clamp, DRV0006A (WSO-6)	DRV0006A
U42	1		SN74LVC2G34DRLR	Texas Instruments	Dual Buffer Gate, DRL0006A, LARGE T&R	DRL0006A
U43	1		TPS22917DBVR	Texas Instruments	5.5-V, 2-A, 80 mohm Low Leakage Load Switch with RCB and Programmable Rise Time, DBV0006A (SOT-23-6)	DBV0006A
U44	1		TPS560430XFDBVR	Texas Instruments	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	DBV0006A
U45	1		TPS7A0533PDBV	Texas Instruments	1uA IQ, 200 mA, Ultralow IQ Low-Dropout Regulator, DBV0005A (SOT-5)	DBV0005A
U50	1		TMP235DCK	Texas Instruments	TMP235DCK, DCK0005A (SOT-5)	DCK0005A
U51	1		REF3425IDBVR	Texas Instruments	2.5V Low-Drift Low-Power Small-Footprint Series Voltage Reference, DBV0006A (SOT-23-6)	DBV0006A
U52	1		TPS3840DL29DBVR	Texas Instruments	Nano Power, Wide VIN Voltage Detector with Programmable Delay, DBV0005A (SOT-23-5)	DBV0005A
C1	0	4700pF	06031C472KAT2A	AVX	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603	0603
C11	0	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R5	0	100k	RT0603FRE07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R24, R40	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R42, R118	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R110	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R113	0	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, 0805	0805