

Designator	Qty	Value	Description	Manufacturer Part Number	Manufacturer
C1, C11, C22, C68, C144	5	100nF	100nF 50 V Ceramic X7R 0603	CL10B104KB8NNNC	Samsung
C2	1	10uF	10uF 16 V Ceramic X5R 0805	GRM21BR61C106KE15L	Murata
C3, C10, C38	3	10uF	10uF 25 V Ceramic X7R 1206	TMK316B7106KL-TD	Taiyo Yuden
C4, C48	2	100nF	100nF 1000 V Ceramic X7R 1812	C1812V104KDRCTU	Kemet
C5, C136, C140, C149	4	1uF	1uF 16 V Ceramic X7R 0603	0603YC105KAT2A	AVX
C6, C99, C100	3	2.2uF	2.2uF 10 V Ceramic X5R 0603	GRM188R61A225KE34D	Murata
C7	1	100pF	100 pF 25 V NPO 0603	885012006038	Würth Electronics Inc
C8	1	4.7uF	4.7uF 10 V Ceramic X5R 0603	C1608X5R1A475M/0.50	TDK Corp
C9, C24, C32, C33, C37, C39, C42, C54, C58, C65	10	100nF	100nF 25 V Ceramic X7R 0805	GRM21BR71E104KA01L	Murata
C12	1	10nF	10nF 50 V Ceramic X7R 0603	CL10B103KB8NNNC	Samsung
C13, C14	2	47 pF	47 pF 1000 V Ceramic COG 1210	VJ1210A470JXGAT5ZL	Vishay
C15, C18, C61, C145	4	330 pF	330 pF 50 V Ceramic COG 0603	C0603C331J5GACTU	Kemet
C16, C17, C19, C20, C35, C44, C45, C57, C60, C64, C66, C69, C72, C138	14	100nF	100nF 50 V Ceramic X7R 0603	CL10B104KB8NNNC	Samsung
C21, C52, C53	3	2.2uF	2.2uF 450 V Ceramic X6S 2220	C5750X6S2W225K250KA	TDK
C23, C25, C50, C51	4	470uF	470uF 450 V Electrolytic (35 x 52)	ELH477M450AT6AA	Kemet
C26	1	1nF	1nF 16 V Ceramic NPO 0603	CL10C102JB8NFNC	Samsung
C27	1	1uF	1uF 50 V Ceramic X7R 0805	08055D105KAT2A	AVX Corporation
C28, C30	2	10nF	10nF 630 V Ceramic COG 1206	CGA5L4COG2J103J160AA	TDK
C29	1	2.2uF	2.2uF 25 V Ceramic X7R 0805	885012207079	Würth
C31, C49, C85, C88	4	330pF	330pF 50 V X7R 0603	885012206080	Würth Electronics Inc
C34, C40, C41	3	22uF	22uF 16 V Ceramic X5R 0805	CL21A226MOCLRNC	Samsung
C36	1	100uF	100uF 16 V Ceramic X5R 1210	EMK325ABJ107MM-T	Taiyo Yuden
C43, C46	2	4.7uF	4.7uF 16 V Ceramic X5R 0805	C0805C475K4PACTU	Kemet
C47, C86	2	100pF	100 pF 50 V Ceramic X7R 0603	CL10C101JB8NNNC	Samsung
C55	1	1uF	1uF 25 V Ceramic X5R 0805	C2012X5R1E105K	TDK
C56, C67	2	220pF	220pF 50 V Ceramic X7R 0603	06035C221KAT2A	AVX Corporation
C59, C63	2	100nF	100nF 50 V Ceramic X7R 0603	C0603C104M5RACTU	Kemet
C62	1	3.3nF	3.3nF 50 V Ceramic X7R 0603	GRM188R71H332KA01D	Murata
C70, C84, C89, C90, C123	5	100nF	100nF 50 V X7R 0603	885012206095	Würth Electronics Inc
C71	1	22nF	22nF 50 V Ceramic X7R 0805	CC0805KRX7R9BB223	Yageo
C73	1	1uF	1uF 25 V Ceramic Y5V 0805	CC0805ZRY5V8BB105	Yageo
C74	1	100uF	100uF 25 V Electrolytic Gen. Purpose (5 x 12.5)	ESK107M025AC3AA	Kemet
C75, C76, C77, C78, C79, C80, C81, C82, C83, C97, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C118, C120,	30	100nF	100nF 25 V X5R 0402	TMK105BJ104KVHF	Taiyo Yuden

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C124, C125, C126, C127, C128, C129					
C87	1	100nF	100nF 630 VDC Film	BFC233920104	Vishay
C91, C92, C93, C94, C95, C96	6	3.3nF	3.3nF 10 V Ceramic X7R 0402	885012205009	Würth
C98, C101	2	10uF	10uF 6.3 V Ceramic X7R 1206	GRM31CR70J106KA01L	Murata
C114, C115, C121	3	33pF	33 pF 25 V Ceramic NPO 0603	885012006035	Würth
C116, C117	2	47uF	47uF 10 V Ceramic TANTALUM 0805	298D476X0010P2T	Vishay
C119, C122	2	22uF	22uF 6.3 V Ceramic X7R 1206	JMK316B7226ML-T	Taiyo Yuden
C130, C137	2	560pF	560pF 100 V Ceramic COG 0603	GRM1885C2A561JA01D	Murata
C131	1	2.2nF	2.2nF 630 V Ceramic X7R 1206	GRM31BR72J222KW01L	Murata
C133, C135	2	100uF	100uF 25 V Electrolytic Very Low ESR 130mOhm (6.3 x 11)	EKZE250ELL101MF11D	Nippon Chemi-Con
C134	1	33uF	33uF 450 V Electrolytic (16 x 31.5)	EEU-EB2W330	Panasonic
C139	1	22uF	22uF 25 V Ceramic X7R 1210	GRM32ER71E226ME15L	Murata
C141, C142	2	100uF	100uF 10 V Electrolytic Very Low ESR 300mOhm (5 x 11)	EKZE100ELL101ME11D	Nippon Chemi-Con
C143	1	100pF	100 pF 100 V Ceramic COG 0805	C0805C101J1GACTU	Kemet
C146, C148	2	1000pF	1000 pF 100 V Ceramic COG 0603	C1608COG2A102J	TDK Corp
C147	1	2.2uF	2.2uF 25 V Ceramic X7R 0805	TMK212B7225KG-TR	Taiyo Yuden
CM1	1	1.4kOhm	CMC 1.4kOHM, 1.7 A, DCR 80mOhm, 2 LN SMD	ACM4520-142-2P-T000	TDK
CN1	1	TERM BLOCK	TERM BLOCK 3POS 30A 7.62MM PCB HORIZ	20020705-M031B01LF	AMPHENOL
CN2	1	TERM BLOCK	TERM BLOCK 2POS 30A 7.62MM PCB HORIZ	20020705-M021B01LF	AMPHENOL
CT1, CT2	2	PA1005.100NLT	CURR SENSE XFMR 1:100 20A SMD	PA1005.100NLT	Pulse Electronics
CX1, CX2, CX4	3	1uF	1uF 275 VAC Film X2	EQ-U2A105ML	Panasonic
CX3	1	22nF	22nF 275 VAC Film X2	PME271M522MR30	Kemet
CY1, CY2, CY3, CY4	4	4.7nF	4.7nF Ceramic Y1 400 VAC	C947U472MYVDBA7317	Kemet
D1	1	LL4148	75 V, 0.15 A, Fast Switching, 4 ns, MELF	LL4148-13	Diode Inc.
D2	1	GBJ2506-F	600 V, 25 A, Bridge Rectifier, GPP, GBJ Package	GBJ2506-F	Diodes, Inc
D3, D4, D6, D11	4	ES1J	600 V, 1 A, Ultrafast Recovery, 35 ns, DO-214AC	ES1J-LTP	Micro Commercial Co.
D5	1	BZV55-C15,115	15 V, 5%, 500mW, SOD80C	BZV55-C15,115	NXP Semiconductor
D7	1	DL4007	1000 V, 1 A, Rectifier, Glass Passivated, DO-213AA (MELF)	DL4007-13-F	Diodes Inc
D8	1	BZV55-C6V8,115	6.8 V, 5%, 500mW, SOD80C	BZV55-C6V8,115	NXP Semiconductor
D9	1	MURS120T3G	200 V, 1 A, Ultrafast Recovery, 35 ns, SMB Case	MURS120T3G	On Semi
D10	1	DL4148-TP	75 V, 0.15 A, Fast Switching, 4ns, mini MELF	DL4148-TP	Micro Commercial
D12	1	BZV55-C6V2,115	6.2 V, 5%, 500mW, SOD80C	BZV55-C6V2,115	Nexperia USA

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DN1, DN2	2	NUP4114HMR6T1G	5.5 VWM, TVS DIODE, 10 VC, 6TSOP	NUP4114HMR6T1G	ON Semiconductor
FAN DC1	1	Fan 12VDC 60mm x 10mm	Fan, 12VDC, 60mm x 10mm,	EFB0612LA	Delta
FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16, FB17, FB18	18	220 Ohm	FERRITE BEAD 220 OHM 0805 1LN	BLM21PG221SN1D	Murata
FB19, FB26, FB27, FB28, FB29, FB30, FB32, FB33, FB34, FB35, FB36, FB37, FB38, FB39, FB40	15	300 R	Ferrite Bead, 300 Ohm, 0.7 A 0805 SMD	LI0805G301R-10	Laird-Signal Integrity
FB41, FB42	2	40 Ohm	FERRITE BEAD 40 OHM 1.5 A 0805 1LN	MI0805K400R-10	Laird
FH1	1	Fuse Holder Clip	FUSE CLIP CARTRIDGE 250V 30A PCB	01220088Z	Littlefuse
G_LS, TP3, TP6, TP9, TP10, TP13, TP59, TP60, TP61, VM_SR	10	CON1	PC TEST POINT MINIATURE SMT 0.010" (0.25mm) Phosphor Bronze, Silver Plate	5015	Keystone
HS1, HS2	2	HEATSINK	Heat Sink TO-247, TO-264, SOT-227 Aluminum Board Level, Vertical	C40-058-AE	Ohmite
J1	1	CON4	4 Position (1 x 4) header, 0.1 pitch, Vertical	22-28-4049	Molex
J2, J3, J4	3	CON2	2 Position (1 x 2) header, 0.1 pitch, Vertical	22-03-2021	Molex
JP1	1	J	Wire Jumper, Insulated, TFE, 16 AWG stranded wire, 3 inches long for Current Sensing	44A0111-16-0-BRL-L117	TE Connectivity
L1, L2	2	4mH	4mH, XX A, 3.9mOhm, Common Mode Choke		
L3	1	50uH	50uH, Custom, Loose Winding, 28T - 1 X 14 AWG, Core 77071A7	77071A7	Mag Inc.
L4	1	554uH	554uH, Inductor, 2 Pins, High Flux CH610060, 30 X 70mm	CH610060	Changsung Corp
L8, L9	2	3.3uH	3.3uH, 1.00 A	NLCV32T-3R3M-PFR	TDK Corporation
L19	1	2.2uH	2.2uH, 1 A, 120 MOHM SMD	VLF3010AT-2R2M1R0	TDK
L20	1	3.3uH	3.3uH, .870 A, 170 MOHM SMD	VLF3010AT-3R3MR87	TDK
LD1, LD4	2	GRN	Green 567nm LED Indication - Discrete 2.1V 0805 (2012 Metric)	PG1112H-TR	Stanley Electric
LD2, LD3	2	RED	Red 647nm LED Indication - Discrete 1.7V 0805 (2012 Metric)	BR1112H-TR	Stanley Electric
NTC	1		RESISTOR, American symbol	NTCALUG02A103FL	Vishay
Q1, Q3	2	TP65H050WS	650V, 47A, 0.035Ohms, TO-247, GaN HEMT, normally-off, source tab	TP65H050WS	Transphorm Inc.
Q2, Q4	2	STY139N65M5	650V 130 A MAX247 MOSFET N-CH	STY139N65M5	STMicroelectronics

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Q5	1	FDV301 N	25V, 220 mA, 4 Ohm, N-Channel, SOT 23	FDV301N	Fairchild
Q6	1	BSZ520 N15NS3 GATMA1 CT	150 V, 21 A, 53mOhm, MOSFET N-CH, TDSO8	BSZ520N15NS3GATMA1	Infineon Technologies
Q7	1	TPN2200 6NH,LQ	60 V, 9 A, 22mOhm, MOSFET N- CH, 8-TSON	TPN22006NH,LQ	Toshiba Semiconductor
Q8	1	FQT7N10 L	100V, 1.7A, 0.35Ohm, N-Channel, SOT 223	FQT7N10LTF	Fairchild
R1, R33, R62, R68, R69, R108, R118, R120	8	0.0	0 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEY0R00V	Panasonic
R2, R96	2	47	47 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ470V	Panasonic
R3, R4, R9, R11	4	15	15 R, 1%, 1/4 W, Thick Film, 1206	ERJ-8ENF15R0V	Panasonic
R5, R13, R87, R112, R113	5	10	10 R, 5%, 1/8 W, Thick Film, 0805	ERJ-6GEYJ100V	Panasonic
R6, R7, R8, R10, R14, R15, R16, R24, R32, R37, R48	11	10 k	10 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF1002V	Panasonic
R12, R58, R81	3	0.0	0 R, 5%, 1/8 W, Thick Film, 0805	ERJ-6GEY0R00V	Panasonic
R17	1	50	NTC Thermistor, 50 Ohms, 6 A	MS32 50006-B	Ametherm
R18, R19, R21, R25, R28, R30	6	1.33 M	1.33 M, 1%, 1/4 W, Thick Film, 1206	RC1206FR-071M33L	Yageo
R20	1	3.92 M	3.92 M, 1%, 1/16 W, Thick Film, 0603	CRCW06033M92FKEA	Vishay
R22, R23	2	4.7	4.7 R, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYJ4R7V	Panasonic
R26	1	100 k	100 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF1003V	Panasonic
R27, R34	2	13.3 k	13.3 k, 0.1%, 1/8 W, Thick Film, 0805	ERA-6AEB1332V	Panasonic
R29	1	1.00 k	1.00 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF1001V	Panasonic
R31	1	2 k	2 k, 5%, 1/8 W, Thick Film, 0805	ERJ-6GEYJ202V	Panasonic
R35	1	7.5 k	7.5 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ752V	Panasonic
R36	1	3.3 k	3.3 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ332V	Panasonic
R38, R46	2	13.3 k	13.3 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF1332V	Panasonic
R39, R41, R42, R50	4	15.0 k	15 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF1502V	Panasonic
R40, R80, R104	3	91 k	91 k, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYJ913V	Panasonic
R43, R44, R45	3	1.33 M	1.33 M, 1%, 1/4 W, Thick Film, 1206	RC1206FR-071M33L	Yageo
R47	1	2.2 M	2.2 M, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF2204V	Panasonic
R49	1	4.99 k	4.99 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF4991V	Panasonic

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R51	1	2.2 k	2.2 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ222V	Panasonic
R52	1	4.7 k	4.7 k, 5%, 1/8 W, Thick Film, 0805	ERJ-6GEYJ472V	Panasonic
R53	1	2.10 k	2.10 k, 1%, 1/8 W, Thick Film, 0805	ERJ-6ENF2101V	Panasonic
R54, R60, R61, R63	4	680	680 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ681V	Panasonic
R55, R56	2	4.7 k	4.7 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ472V	Panasonic
R57	1	22.1 k	22.1 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF2212V	Panasonic
R59	1	2 k	2 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ202V	Panasonic
R64	1	22 k	22 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ223V	Panasonic
R65, R106, R107	3	10 k	10 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ103V	Panasonic
R66	1	220.0 k	220.0 k, 1%, 1/16 W, Thick Film, 0603	RC0603FR-07220KL	Yageo
R67	1	48.7 k	48.7 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF4872V	Panasonic
R70	1	147 k	147 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF1473V	Panasonic
R71	1	68.0 k	68.0 k, 1%, 1/16 W, Thick Film, 0603	AC0603FR-0768KL	Yageo
R72, R73, R74, R75	4	820	820 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ821V	Panasonic
R76, R77, R78, R79, R121, R122, R124, R125, R126, R127, R129, R130	12	3.30 k	3.30 k, 1%, 1/16 W, Thick Film, 0603	RC0603FR-073K3L	Yageo
R82, R90	2	4.3	4.3 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ4R3V	Panasonic
R83	1	200 k	200 k, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYJ204V	Panasonic
R84, R93, R100	3	0.0	0 R, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYOR00V	Panasonic
R85	1	15.0	15.0 R, 1%, 1/4 W, Thick Film, 1206	ERJ-8ENF15R0V	Panasonic
R86	1	3.3 M	3.3 M, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYJ335V	Panasonic
R88	1	2.37 M	2.37 M, 1%, 1/4 W, Thick Film, 1206	541-2.37MFCT-ND	Vishay
R89, R110	2	10.2 k	10.2 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF1022V	Panasonic
R91	1	93.1 k	93.1 k, 1%, 1/4 W, Thick Film, 1206	ERJ-8ENF9312V	Panasonic
R92, R109	2	2.05 k	2.05 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF2051V	Panasonic
R94	1	32.4 k	32.4 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF3242V	Panasonic
R95, R99	2	1.0 k	1.0 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF1001V	Panasonic

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R97	1	107 k	107 k, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF1073V	Panasonic
R98	1	22.1	22.1 R, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF22R1V	Panasonic
R101	1	2.7 k	2.7 k, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ272V	Panasonic
R102	1	0.02	0.02 R, 5%, 1 W, Thick Film, 1206	ERJ-8BWJR020V	Panasonic
R103	1	1.20 M	1.20 M, 1%, 1/16 W, Thick Film, 0603	ERJ-3EKF1204V	Panasonic
R105	1	1.20 M	1.20 M, 1%, 1/4 W, Thick Film, 1206	ERJ-8ENF1204V	Panasonic
R111	1	10 k	10 k, 5%, 1/10 W, Thick Film, 0402	ERJ-2GEJ103X	Panasonic
R114, R115, R116	3	15.0	15.0 R, 1%, 1/2 W, Thick Film, 1210	ERJ-14NF15ROU	Panasonic
R117, R119	2	10	10 R, 5%, 1/4 W, Thick Film, 1206	ERJ-8GEYJ100V	Panasonic
R123, R128	2	100	100 R, 5%, 1/10 W, Thick Film, 0603	ERJ-3GEYJ101V	Panasonic
RL1	1	JTN1AS-PA-F-DC12V	General Purpose Relay SPST-NO (1 Form A) 30 A 12 VDC Coil Through Hole	JTN1AS-PA-F-DC12V	Panasonic
RN1	1	56 R	RES ARRAY 8 RES 56 OHM 1506	EXB-2HV560JV	Panasonic
RN3	1	33 R	RES ARRAY 8 RES 33 OHM 1506	EXB-2HV330JV	Panasonic
RV1	1	320Vac	320 V, 80 J, 14 mm, RADIAL	V320LA20AP	Littlefuse
SV1	1		PIN HEADER	67997-414HLF	Amphenol
SV2	1		PIN HEADER	901200124	Molex
SW1	1	SWITCH	Dip Switch SPST 1 Position Surface Mount Slide (Standard) Actuator 100mA 6VDC 0.010" (0.25mm) Phosphor Bronze, Silver Plate	CHS-01TB	Copal Electronics
SW2	1	SWITCH	Dip Switch SPST 4 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC 0.010" (0.25mm) Phosphor Bronze, Silver Plate	218-4LPST	CTS Electrocomponents
SW3	1	Switch SPDTX2	SWITCH SLIDE SPDTX2 100MA 6V 0.010" (0.25mm) Phosphor Bronze, Silver Plate	CAS-D20TA	Nidec Copal Electronics
T1	1	RM8	Bobbin, RM8, Vertical, 12 pins	B65812C1512T1	TDK
TP58	1	CON1	Test Point, BLK, THRU-HOLE MOUNT	5011	Keystone
U1	1	LM4132 BMF-3.0/NOPB	Series Voltage Reference IC ±0.1% 20mA SOT-23-5	LM4132BMF-3.0/NOPB	Texas Instruments
U2	1	TPS7303 3DBVR	IC REG LDO 3.3V 0.2A SOT23-5	TPS73033DBVR	Texas Instruments
U3	1	CAP200 DG	Power Management Specialized CapZero-2 X 1KV Smart HV Switches 8SOIC	CAP200DG	Power Integrations

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U4	1	CQ2234	Current Sensor 50A 1 Channel Hall Effect, Open Loop Bidirectional Module	CQ2234	AKM Semiconductor
U5, U16, U23, U25	4	SN74LVC1G17DBVR	Buffer, Non-Inverting 1 Element 1 Bit per Element Push-Pull Output SOT-23-5	SN74LVC1G17DBVR	Texas Instruments
U6	1	SI8233B B-D-IS1	DGTL ISO 2.5KV GATE DRVR 16SOIC	SI8233BB-D-IS1	Silicon Labs
U7	1	SI8230B B-D-IS1	500mA Gate Driver Capacitive Coupling 2500Vrms 2 Channel 16-SOIC	SI8230BB-D-IS1	Silicon Labs
U8	1	AP2210K-5.0	IC REG LDO 5V 0.3A SOT25	AP2210K-5.0TRG1	Diodes Inc.
U9	1	TMS320F28335PGFA	IC MCU 32BIT 512KB FLASH 176LQFP	TMS320F28335PGFA	Texas Instruments
U10	1	LT3082IST	IC REG LDO ADJ 0.2A SOT223	LT3082IST#PBF	Linear Technologies
U11, U18, U24	3	MAX9636AXT+T	IC OPAMP GP 1.5MHZ RRO SC70-6	MAX9636AXT+T	Maxim Integrated
U12	1	TPS3828-33DBVT	Supervisor Open Drain or Open Collector 1 Channel SOT-23-5	TPS3828-33DBVT	Texas Instruments
U13	1	TPS6240ODRCT	Buck Switching Regulator IC Positive Adjustable 0.6V 2 Output 400mA, 600mA 10-VFDFN Exposed Pad	TPS6240ODRCT	Texas Instruments