

Item	Part Number	Description	Designator	Footprint	Manufacturer	Quantity
1	5000	Test Point, TH, Miniature, Red	bias, Sw1, Sw2, Sw2nd, Vin, VOUT	Keystone5000	Keystone	6
2	GRM2165C2A221JA01D	CAP, CERM, 220pF, 100V, +/-5%, C0G/NP0, 0805	C1, C13	0805_HV	MuRata	2
3	EMVA101ATR101MKE0S	CAP, AL, 100uF, 100V, +/-20%, SMD	C2	CAPSMT_62_KE0	Nippon Chemi-Con	1
4	C5750X7R1H106M	CAP, CERM, 10uF, 50V, +/-20%, X7R, 2220	C3, C4, C5, C6	2220	TDK	4
5	EEV-FK1H331Q	CAP, AL, 330uF, 50V, +/-20%, 0.12 ohm, SMD	C7, C8	SM_RADIAL_H13	Panasonic	2
6	GRM21BR71H105KA12L	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	C9, C11	0805_HV	MuRata	2
7	GRM185R61C105KE44D	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	C10, C15, C17, C23	0603	MuRata	4
8	08051A101FAT2A	CAP, CERM, 100pF, 100V, +/-1%, C0G/NP0, 0805	C12	0805_HV	AVX	1
9	GRM188R61C105KA93D	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	C14, C24	0603	MuRata	2
10	06035A101JAT2A	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	C16, C20	0603	AVX	2
11	06031C103JAT2A	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	C18, C19	0603	AVX	2
12	08055C104KAT2A	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0805	C21, C22	0805_HV	AVX	2
13	On Semi, MUR1640CT	Diode, Ultrafast, 400V, TH	D1, D2	TO-220AB	ON Semiconductor	2
14	BAT54T1G	Diode, Schottky, 30V, 0.2A, SOD-123	D3, D4, D5	SOD-123	ON Semiconductor	3
15	5001	Test Point, TH, Miniature, Black	GND	Keystone5001	Keystone	1
16	Vin = 20V to 50V max vin	CIRCUIT PIN PRNTD .188" .084"	J1	3144-2-00-21-00-00-08-0	Mill -Max	1
17	Vout = 36V @ 8A Max	CIRCUIT PIN PRNTD .188" .084"	J2	3144-2-00-21-00-00-08-0	Mill -Max	1
18	3144-2-00-21-00-00-08-0	CIRCUIT PIN PRNTD .188" .084"	J3, J4	3144-2-00-21-00-00-08-0	Mill -Max	2
19	Enable	CIRCUIT PIN PRNTD .188" .084"	J5	3144-2-00-21-00-00-08-0	Mill -Max	1
20	SER2915L-103KL	Inductor, Shielded E Core, Ferrite, 10uH, 13A, 0.0015 ohm, SMD	L1	SER2915	Coilcraft	1
21	MSS1038-684KLB	Inductor, Shielded Drum Core, Ferrite, 680uH, 0.5A, 1.926 ohm, SMD	L2	MSS1038	Coilcraft	1
22	On Semi, SUM85N	MOSFET, N-CH, 150V, DDPAK	Q1, Q2, Q3, Q4	DDPAK	Vishay-Siliconix	4
23	2N7002E-T1-E3	MOSFET, N-CH, 60V, 0.24A, SOT-23	Q5	SOT-23	Vishay-Siliconix	1
24	ERJ-1TNF1240U	RES, 124 ohm, 1%, 1W, 2512	R1, R5	2512M	Panasonic	2
25	CRCW060310K0FKEA	RES, 10.0k ohm, 1%, 0.1W, 0603	R2	0603	Vishay-Dale	1
26	CRCW06031R00FKEA	RES, 1.00 ohm, 1%, 0.1W, 0603	R3, R7, R17	0603	Vishay-Dale	3
27	CRCW12061R00FKEA	RES, 1.00 ohm, 1%, 0.25W, 1206	R4	1206	Vishay-Dale	1
28	CRCW1206100RFKEA	RES, 100 ohm, 1%, 0.25W, 1206	R6	1206	Vishay-Dale	1
29	CRCW06031K00FKEA	RES, 1.00k ohm, 1%, 0.1W, 0603	R8	0603	Vishay-Dale	1
30	CRCW0603124KFKEA	RES, 124k ohm, 1%, 0.1W, 0603	R9	0603	Vishay-Dale	1
31	CRCW06032R49FKEA	RES, 2.49 ohm, 1%, 0.1W, 0603	R10	0603	Vishay-Dale	1
32	CRCW060341K2FKEA	RES, 41.2k ohm, 1%, 0.1W, 0603	R11	0603	Vishay-Dale	1

33	CRCW060320K0FKEA	RES, 20.0k ohm, 1%, 0.1W, 0603	R12	0603	Vishay-Dale	1
34	CRCW06032K49FKEA	RES, 2.49k ohm, 1%, 0.1W, 0603	R13	0603	Vishay-Dale	1
35	CRCW0603100KFKEA	RES, 100k ohm, 1%, 0.1W, 0603	R14	0603	Vishay-Dale	1
36	CRCW0603150KFKEA	RES, 150k ohm, 1%, 0.1W, 0603	R15	0603	Vishay-Dale	1
37	CRCW06036K98FKEA	RES, 6.98k ohm, 1%, 0.1W, 0603	R16	0603	Vishay-Dale	1
38	CRCW060314K0FKEA	RES, 14.0k ohm, 1%, 0.1W, 0603	R18	0603	Vishay-Dale	1
39	Pulse, PA0901	2 Input 2 Output XFMR	T1		Pulse Engineering	1
40	Pulse, PB0026NL	SMT Current Sense Tranformer	T2	P82xx	Pulse Engineering	1
41	LM5017	COT Swithing regulator	U2	M08A_N	TI	1
42	LM5110-1M	Dual 5A Compound Gate Driver with Negative Output Voltage Capability, 8-pin Narrow SOIC	U1	M08A_N	TI	1
43	LM5030MM/NOPB	100V Push-Pull Current Mode PWM Controller, 10-pin MSOP, Pb-Free	U3	MUB10A_N	TI	1

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