

Item	Qty	Reference	Part Description	ManUFACTURE / Part #
REQUIRED CIRCUIT COMPONENTS				
1	3	CIN1,CIN2,CIN3	Cap., X7R 2.2uF 100V 20%	TDK C4532X7R2A225MT 1812
2	1	CO1	Cap., X7R 33uF 16V	TDK C4532X7R1C336M 1812
3	1	CSYS	Cap., Aluminum 150uF 16V	Nippon Chemi-Con, APXE160ARA151MH80G
4	1	CU1	Cap., X7S 4.7uF 16V	Taiyo Yuden EMK316BJ475ML 1206
5	1	C2	Cap., NPO 820pF 200V 5%	AVX 12062A821JAT1A
6	3	C3,C13,C23	Cap., X5R 1uF 16V 20%	Taiyo Yuden EMK107BJ105MA 0603
7	1	C5	Cap., X5R 0.22uF 25V 20%	AVX 08053D224KAT
8	2	C6,D7	Diode, Switching Diode	Phillips Semi. BAS521 SOD-523
9	2	C7,C21	Cap., X7R 220pF 50V 10%	AVX 06035C221KAT1A
10	2	C8,C9	Cap., X7R 100pF 50V 10%	AVX 06035C101KAT1A
11	1	C10	Cap., X7R 0.1uF 50V 10%	AVX 06035C104KAT1A
12	1	C11	Cap., X7R 2200pF 50V 10%	AVX 06035C222KAT1A
13	1	C12	Cap., X7R 470pF 50V 10%	AVX 06035C471KAT1A
14	2	C14,C19	Cap., X5R 1uF 10V 10%	AVX 0805ZD105KAT1A
15	1	C15	Cap., X7R 2200pF 250V 10%	Murata,GA343QR7GD222KW01L 1812
16	1	C16	Cap., X5R 0.22uF 10V 20%	AVX 0603ZD224KAT
17	1	C17	Cap., X7R 3300pF 50V 10%	AVX 06035C332KAT1A
18	2	C18,C24	Cap., X7R 10pF 50V 10%	AVX 06035C100KAT1A
19	4	D1,D2,D3,D11	Diode, High-Speed Diode	Phillips Semi. BAS516 SOD-523
20	1	D5	Diode, Voltage Regulator	Phillips Semi. PDZ10B SOD-323
21	1	D9	Diode, Voltage Regulator	Phillips Semi. PDZ7.5B SOD-323
22	1	D10	Diode, Schotkky Barrier	Phillips Semi. BAT760 SOD-323
23	1	L1	Inductor, 3uH	Pulse Eng. PA1393.302
24	1	L2	Inductor, 1.5mH	Coilcraft DO1607B-155ML-C
25	1	L3	Inductor, 680uH	Coilcraft DO1608C-684ML-C
26	1	Q1	Mosfet, N-Channel enhancement mode field-effect	Phillips Semi. PHM21NQ15T SOT685-1
27	2	Q2,Q3	Mosfet, N-Channel Power Switching	Renesas HAT2244 LFAK
28	1	Q9	Trans., NPN Medium Power transistor	Phillips Semi. BCX55 SOT89
29	1	Q10	Trans., NPN High voltage transistor	Phillips Semi. PZTA42 SOT223
30	1	Q12	Trans., PNP general purpose transistor	Phillips Semi. BC856T SOT490
31	1	RCS1	Res., Chip 0.010 1/2W 1%	Vishay Dale WSL2010-0.010-1%-R86
32	1	R1	Res., Chip 2.2 1/10W 5%	AAC CR16-2R2JM
33	1	R3	Res., Chip 57.6 1/10W 1%	AAC CR16-57R6FM
34	2	R31,R5	Res., Chip 10 1/10W 5%	AAC CR16-100JM
35	2	R7,R42	Res., Chip 0	Vishay CRCW0603000ZSTA
36	1	R8	Res., Chip 2.2 1/10W 5%	AAC CR10-2R2JM 0805

37	1	R9	Res., Chip 47 1/10W 5%	AAC CR16-470JM	
38	1	R10	Res., Chip 1K 1/10W 5%	AAC CR10-102JM	0805
39	2	R24,R11	Res., Chip 82K 1/10W 5%	AAC CR16-823JM	
40	2	R29,R13	Res., Chip 22K 1/10W 5%	AAC CR16-223JM	
41	1	R14	Res., Chip 33K 1/10W 5%	AAC CR16-333JM	
42	1	R15	Res., Chip 133K 1/10W 1%	AAC CR16-1333FM	
43	1	R16	Res., Chip 47K 1/10W 5%	AAC CR10-473JM	0805
44	1	R17	Res., Chip 560 1/10W 5%	AAC CR16-561JM	
45	2	R18,R21	Res., Chip 10K 1/10W 5%	Vishay CRCW0603103JRT6	
46	1	R19	Res., Chip 38.3K 1/10W 1%	AAC CR16-3832FM	
47	1	R20	Res., Chip 59K 1/10W 5%	AAC CR16-593JM	
48	1	R22	Res., Chip 13.3K 1/10W 1%	AAC CR16-1332FM	
49	1	R23	Res., Chip 2K 1/10W 5%	AAC CR16-202JM	
50	1	R26	Res., Chip 220 1/10W 5%	AAC CR16-221JM	
51	1	R27	Res., Chip 270 1/10W 5%	AAC CR16-271JM	
52	2	R32,R28	Res., Chip 442K 1/10W 1%	AAC CR16-4423FM	
53	1	R30	Res., Chip 1.2K 1/10W 5%	AAC CR16-122JM	
54	1	R33	Res., Chip 158K 1/10W 1%	AAC CR16-1583FM	
55	1	R34	Res., Chip 8.45K 1/10W 1%	AAC CR16-8451FM	
56	1	R35	Res., Chip 348K 1/10W 1%	AAC CR10-3483FM	0805
57	1	R38	Res., Chip 18.2K 1/10W 1%	AAC CR16-1822FM	
58	1	T1	Transformer, SMT	Pulse Eng., PA0423	
59	1	T2	Transformer, SMT Gate Drive Transformers	Pulse Eng. PE-68386	
60	1	U1	I.C., PWM Controller	Linear Tech. LT1952EGN-1	
61	1	U2	I.C., High Speed, High Voltage High Side Gate Driver	Linear Tech. LTC4440ES6-5	
62	1	U4	I.C., Secondary-Side Optocoupler Driver	Linear Tech. LT4430ES6	
63	1	U5	I.C., Synchronous Rectifier Driver for Forward Converter	Linear Tech. LTC3900CS8	
64	1	U6	I.C., High Isolation Voltage SOP Photocoupler	NEC PS2801-1	
ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS					
1	0	CO2,CO3	Cap.,	OPT	1812
2	0	C4	Cap.,	OPT	0805
3	1	C26	Cap., X7R 220pF 50V 10%	AVX 06035C221KAT1A	
4	1	C30	Cap., X7R 100pF 50V 10%	AVX 06035C101KAT1A	
5	3	C27,C28,C29	Cap., X7R 0.1uF 50V 10%	AVX 06035C104KAT1A	
6	0	C25	Cap.,	OPT	1206
7	2	D12,D14	Diode, High-Speed Diode	Phillips Semi. BAS516	SOD-523
8	0	D6,D8	Diode, Schottky Power Rectifier	OPT	SOD-123

9	1	D13	Diode, Voltage Regulator	Phillips Semi. PDZ5.1B	SOD-323
10	1	Q13	Mosfet, SMPS, SO8	IR, IRF6217	
11	0	R6,R43,R46	Res., 0603	OPT	
12	2	R45,R47	Res., Chip 10K 1/10W 5%	Vishay CRCW0603103JRT6	
13	1	R44	Res., Chip 11.3K 1/10W 1%	AAC CR16-1132FM	
14	1	R48	Res., Chip 150 1/10W 5%	AAC CR16-151JM	
15	1	U3	I.C., 74VHC123AMTC, TSSOP16	FAIRCHILD SEMI., 74VHC123AMTC	
16	1	U7	I.C., LTC4440ES6, SOT23-6	Linear Tech. LTC4440ES6	
HARDWARE FOR DEMO BOARD ONLY					
1	6	TP1,TP2,TP3,TP4,TP5,TP6	Testpoint, Turret, .094"	MILL-MAX 2501-2	
2	4	AT 4 CORNERS	Bumpon, transparent and true white	3M BUMPON SJ-5303	
3	2		STENCILS FOR BOTH SIDES	DC968A	