

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2					
3	<b>REQUIRED CIRCUIT COMPONENTS:</b>				
4	1	5	C1,C14,C15,C16,C17	CAP, 1812 2.2uF 10% 100V X7R	TDK C4532X7R2A225K
5	2	1	C2	CAP, 100uF 20% 63V ELEC	SUN ELECT. 63CE100KX
6	3	1	C3	CAP, 0805 0.1uF 10% 100V X7R	TDK C2012X7R2A104K
7	4	1	C4	CQP, 0805 4.7uF 10% 16V X7R	AVX, 0805YC475KAT2A
8	5	7	C5,C32,C33,C39,C78,C79,	CAP, 0603 0.1uF 10% 50V X7R	TDK C1608X7R1H104K
9			C80		
10	6	1	C6	CAP, 0603 470pF 10% 50V X7R	MURATA GRM188R71H471KA01D
11	7	1	C7	CAP, 0603 15pF 5% 50V C0G	AVX 06035A150JAT4A
12	8	1	C8	CAP, 0603 47pF 5% 100V NPO	AVX 06031A470JAT2A
13	9	2	C9,C34	CAP, 0603 10nF 10% 100V X7R	AVX, 06031C103KAT2A
14	10	1	C11	CAP, 0603 0.1uF 10% 100V X7R	MURATA GRM188R72A104KA35D
15	11	2	C12,C13	CAP, 0603 2.2pF 10% 100V NPO	AVX, 06031A2R2KAT2A
16	12	2	C18,C27	CAP, 0603 1uF 10% 16V X7R	AVX, 0603YC105KAT2A
17	13	2	C20,C25	CAP, 150uF 20% 16V ALUM	PANASONIC 16SVPC150M
18	14	2	C22,C23	CAP, 1206 10uF 10% 16V X7R	AVX, 1206YC106KAT2A
19	15	2	C30,C31	CAP, 0603 0.22uF 10% 25V X5R	AVX 06033D224KAT2A
20	16	2	C35,C36	CAP, 0603 1nF 10% 25V X7R	AVX 06033C102KAT2A
21	17	1	C37	CAP, 0603 100pF 10% 100V NPO	AVX, 06031A101KAT2A
22	18	2	C40,C100	CAP, 33uF 20% 63V ELEC	SUN ELECT., 63HVVH33M
23	19	1	C69	CAP, 0603 4.7nF 10% 25V X7R	AVX, 06033C472KAT2A
24	20	19	R7,R12,R16,R17,R18,R27,	RES, 0603 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
25			R28,R44,R45,R49,R81,C81,		
26			R82,C82,R83,R84,R85,R89,		
27			R90		
28	21	1	D4	DIODE, ZENER 5.1V	DIODES INC. MMSZ5231BS
29	22	2	L1,L2	IND, 10uH	COILCRAFT SER2918H-103
30	23	4	Q1,Q2,Q3,Q4	XSTR, MOSFET N-CH 80V 100A TDSO-8	INFINEON BSC123N08NS3 G
31	24	4	Q5,Q6,Q7,Q8	XSTR, MOSFET N-CH 80V 100A TDSO-8	INFINEON BSC042NE7NS3
32	25	1	Q33	XSTR, SMALL SIGNAL, NPN	DIODES INC. MMBT3904-7-F
33	26	2	RS1,RS2	RES, 2010 0.003 OHM 1% 1W	VISHAY WSL20103L000FEA18
34	27	1	R_PRG	RES, 0603 29.4k OHMS 1% 1/10W	VISHAY, CRCW060329K4FKEA
35	28	1	R1	RES. 1206 2.2 OHMS 1% 1/4W	VISHAY CRCW12062R20FKEA
36	29	1	R8	RES, 0603 100k OHMS 5% 1/10W	VISHAY CRCW0603100KJNEA
37	30	1	R9	RES, 0805 499k OHMS 1% 1/8W	VISHAY, CRCW0805499KFKEA
38	31	3	R10,R33,R37	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA

	A	B	C	D	E
39	32	1	R11	RES, 0603 35.7k OHMS 1% 1/10W	VISHAY CRCW060335K7FKEA
40	33	1	R14	RES, 0603 4.02K OHMS 1% 1/10W	VISHAY CRCW06034K02FKEA
41	34	2	R19,R20	RES, 0603 100 OHMS 5% 1/10W	VISHAY, CRCW0603100RJNEA
42	35	1	R30	RES, 0603 90.9k OHMS 1% 1/10W	VISHAY CRCW060390K9FKEA
43	36	5	R32,R35,R38,R39,R40	RES, 0603 10k OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
44	37	4	R34,R43,R52,R86	RES, 2010 0.001 OHM 1% 1W	VISHAY, WSL20101L000FEA18
45	38	2	R36,R41	RES, 0603 392k OHMS 1% 1/10W	VISHAY CRCW0603392KFKEA
46	39	1	R42	RES, 0603 3.3k OHMS 5% 1/10W	VISHAY CRCW06033K30JNEA
47	40	1	U1	IC, DUAL OUTPUT HIGH VOLTAGE STEP-DOWN CONVERTER	LINEAR TECH. LTC3892EFE-1#PBF
48	41	1	U2	IC, HIGH VOLTAGE BIDIRECTIONAL CURRENT SENSE AMP	LINEAR TECH. LT1999CS8-10#PBF
49	42	1	U5	IC, Micropower Op Amp, Comparator and Reference	LINEAR TECH. LTC1541CMS8#PBF
50	43	1	U6	IC, Dual and Quad, Single Supply, Precision Op Amps	LINEAR TECH. LT2078CS8#PBF
51	44	1	U7	IC, Low Power Dual Comparators with Reference	LINEAR TECH. LTC1843CS8#PBF
52	45	1	U8	IC, Multiphase Oscillator w/Spread Spectrum Frequency Modulation	LINEAR TECH. LTC6902CMS#PBF
53					
54	<b>ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:</b>				
55	1	0	C10,C19,C26,C38,C83,C84,	CAP, 1210 OPTION	OPTION
56			C85,C86,C87		
57	2	0	C28,C29,C56,C77,C88,C89,	CAP, 0603 OPTION	OPTION
58			C90,C91,C92,C93		
59	3	0	C21,C24,C41,C42,C43,C44	CAP, 150uF 20% 16V ALUM OPTION	PANASONIC 16SVPC150M OPTION
60	4	0	D1,D2,D3	DIODE, SCHOTTKY 30V, 100mA OPTION	CENTRAL SEMI CMDSH-3-TR OPTION
61	5	0	L3,L4,L7,L8	IND, OPTION	OPTION
62	6	0	Q9,Q10,Q11,Q12,Q13,Q14,	XSTR, MOSFET OPTION	OPTION
63			Q15,Q16,Q25,Q26,Q27,Q28,		
64			Q29,Q30,Q31,Q32		
65	7	0	Q34,R50,R59,R61	DO NOT STUFF	NONE
66	8	0	R2,R3,R4,R5,R13,R21,R22,	RES, 0603 OPTION	OPTION
67			R23,R24,R25,R26,R29,R31,		
68			R46		
69	9	0	R47,R58	RES, 0603 10k OHMS 1% 1/10W OPTION	VISHAY CRCW060310K0FKEA OPTION
70					
71	<b>HARDWARE</b>				
72	1	5	E1,E2,E3,E4,E5	TURRET	MIIL-MAX 2501-2-00-80-00-00-07-0
73	2	1	JP1	HEADER, 3PIN, DBL ROW 2mm	SULLINS, NRPN032PAEN-RC
74	3	1	JP2	HEADER, 2mm, 3PIN	SULLINS, NRPN031PAEN-RC
75	4	7	J1,J2,J3,J4,J5,J7,J8	STUD, TESTPIN	PEM KFH-032-10
76	5	7		LUG RING, #10	KEYSTONE 8205

	A	B	C	D	E
77	6	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE_8831
78	7	14		NUT, BRASS 10-32	ANY #10-32
79	8	7		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
80	9	2	XJP1,XJP2	SHUNT, 2mm	SAMTEC 2SN-BK-G