

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2					
3	REQUIRED CIRCUIT COMPONENTS:				
4	1	10	C1,C14,C15,C16,C19,C53,	CAP, 1210 2.2uF 10% 100V X7R	AVX 12101C225KAT2A
5			C54,C55,C61,C75		
6	2	2	C2,C60	CAP, 100uF 20% 100V ELEC	SUN ELECT. 100CE100KXT
7	3	4	C3,C4,C70,C100	CAP, 33uF 20% 80V ELEC	PANASONIC EEE-FK1K330P
8	4	1	C5	CAP, 0603 47pF 10% 50V C0G	AVX 06035A470KAT2A
9	5	2	C6,C9	CAP, 0603 10nF 10% 100V X7R	AVX 06031C103KAT2A
10	6	2	C7,C39,C58	CAP, 0603 100nF 10% 50V X7R	AVX 06035C104KAT2A
11	7	8	C8,C13,C28,C29,C45,C46,	CAP, 0603 0.22uF 10% 25V X5R	AVX 06033D224KAT2A
12			C48,C63		
13	8	5	C10,C31,C51,C64,C107	CAP, 0805 4.7uF 10% 16V X7R	AVX 0805YC475KAT2A
14	9	3	C11,C62,C65	CAP, 0603 100pF 10% 100V NPO	AVX 06031A101KAT2A
15	10	2	C12,C67	CAP, 0603 10pF 10% 100V C0G	AVX 06031A100KAT2A
16	11	6	C18,C23,C59,C71,C105,	CAP, 0603 1uF 10% 25V X7R	MURATA GRM188R71E105KA12D
17			C106		
18	12	4	C21,C24,C47,C74	CAP, 100uF 20% 25V ALUM	PANASONIC EEHZA1E101XP
19	13	4	C22,C25,C66,C72	CAP, 1206 10uF 10% 25V X7R	MURATA GRM31CR71E106KA12L
20	14	4	D1,D2,D3,D4	DIODE, SCHOTTKY, RECTIFIER	DIODES INC. DFLS1100-7
21	15	4	L1,L2,L3,L4	IND, 10uH	WURTH 7443641000
22	16	8	Q1,Q2,Q3,Q4,Q17,Q20,Q22,	XSTR, MOSFET N-CH 80V 100A TDSON-8	INFINEON BSC117N08NS5
23			Q24		
24	17	8	Q5,Q6,Q7,Q8,Q18,Q19,Q21,	XSTR, MOSFET N-CH 80V 100A TDSON-8	INFINEON BSC040N08NS5
25			Q23		
26	18	2	Q33,Q34	XSTR, SIPMOS, P-CHANNEL	VISHAY SUD50P08-25L
27	19	4	RS1,RS2,RS3,RS4	RES, 2010 0.001 OHM 1% 1W	VISHAY WSL20101L000FEA18
28	20	1	R1	RES, 0603 649k OHMS 1% 1/10W	VISHAY CRCW0603649KFKEA
29	21	1	R2	RES, 0603 243k OHMS 1% 1/10W	VISHAY CRCW0603243KFKEA
30	22	1	R3	RES, 0603 200k OHMS 1% 0.1W	VISHAY CRCW0603200KFKEA
31	23	23	R4,R12,R14,R21,R24,R30,R33,	RES, 0603 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
32			R34,R35,R39,R40,R43,R49,		
33			R67,R72,R80,R82,R85,R86,		
34			R87,R88,R89,R90		
35	24	1	R5	RES, 0603 69.8k OHMS 1% 0.1W	VISHAY CRCW060369K8FKEA
36	25	1	R6	RES, 0603 12.7k OHMS 1% 1/10W	VISHAY CRCW060312K7FKEA
37	26	8	R7,R8,R9,R17,R27,R36,R46,	RES, 0603 10k OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
38			R48		

	A	B	C	D	E
39	27	1	R10	RES, 0603 3.01k OHMS 1% 1/10W	VISHAY CRCW06033K01FKEA
40	28	1	R11	RES, 0603 4.53k OHMS 1% 1/10W	VISHAY CRCW06034K53FKEA
41	29	2	R13,R47	RES, 0603 20k OHMS 1% 1/10W	VISHAY CRCW060320K0FKEA
42	30	1	R15	RES, 0603 110k OHMS 1% 1/10W	VISHAY CRCW0603110KFKEA
43	31	1	R16	RES, 0805 499k OHMS 1% 1/8W	VISHAY CRCW0805499KFKEA
44	32	1	R18	RES, 0603 100k OHMS 5% 1/10W	VISHAY CRCW0603100KJNEA
45	33	1	R22	RES, 0603 90.9k OHMS 1% 1/10W	VISHAY CRCW060390K9FKEA
46	34	2	R23,R81	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
47	35	2	R29,R78	RES. 1206 2.2 OHMS 1% 1/4W	VISHAY CRCW12062R20FKEA
48	36	4	R31,R32,R53,R65	RES, 0603 4.99K OHMS 1% 0.1W	VISHAY CRCW06034K99FKEA
49	37	4	R38,R41,R42,R50	RES, 0603 300 OHMS 1% 0.1W	VISHAY CRCW0603300RFKEA
50	38	2	R44,R51	RES, 0603 34k OHMS 1% 0.1W	VISHAY CRCW060334K0FKEA
51	39	2	R83,R84	RES, 2512 0 OHM JUMPER	VISHAY CRCW25120000Z0EG
52	40	2	U1,U2	IC, HIGH POWER BiDIRECTIONAL SUPPLY	LINEAR TECH. LTC3871HLXE#PBF
53					
54	ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:				
55	1	0	C20,C27,C73,C76	CAP, ALUM OPTION	OPTION
56	2	0	C30,C32,C33,C34,C35,C92,	CAP, 0603 OPTION	OPTION
57			C93,C98,C99,C101,C102,		
58			C103,C104		
59	3	0	C88,C89,C90,C91,C94,C95,	CAP, 0805 OPTION	OPTION
60			C96,C97,C108,C109,C110,		
61			C111,C112,C113,C114,C115		
62	4	0	L1,L2,L3,L4 - ALTERNATE	IND, 10uH	COILCRAFT SER2918H-103
63	5	0	Q9,Q10,Q11,Q12,Q13,Q14,	XSTR, MOSFET OPTION	INFINEON IPD60N10S4-12 OPTION
64			Q15,Q16,Q25,Q26,Q27,Q28,		
65			Q29,Q30,Q31,Q32		
66	6	0	R19,R20	RES, 0603 OPTION	OPTION
67	7	0	R25,R26,R54,R79	RES, 1206 OPTION	OPTION
68					
69	HARDWARE				
70	1	16	E1,E2,E3,E4,E5,E6,E7,E8,	TURRET	MIIL-MAX 2501-2-00-80-00-00-07-0
71			E9,E10,E11,E12,E13,E14,		
72			E15,E17		
73	2	3	JP1,JP2,JP6	HEADER, 4PIN, DBL ROW 2mm	WURTH ELEKTRONIK 62000821121
74	3	1	JP3	HEADER, 4PIN, 2mm	WURTH ELEKTRONIK 62000411121
75	4	1	JP4	HEADER, 2mm, 3PIN	WURTH ELEKTRONIK 62000311121
76	6	8	J1,J2,J3,J4,J5,J8,J9,J13	STUD, TESTPIN	PEM KFH-032-10

	A	B	C	D	E
77	7	8		LUG RING, #10	KEYSTONE 8205
78	8	16		NUT, BRASS 10-32	ANY #10-32
79	9	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE 8834
80	10	8		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
81	11	1	S1	SWITCH, SUBMINATURE, SLIDE, SPDT	C&K-COMPONENTS JS202011CQN
82	12	5	XJP1,XJP3,XJP4,XJP6,XJP7	SHUNT, 2mm	WURTH ELEKTRONIK 60800213421