

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2					
3	<b>REQUIRED CIRCUIT COMPONENTS:</b>				
4	1	2	C1,C85	CAP, 56uF 20% 63V ELEC	SUNCON 63HVP56M
5	2	6	C3,C9,C23,C44,C54,C60	CAP, 0603 0.1uF 10% 100V X7R	MURATA GRM188R72A104KA35J
6	3	2	C4,C5	CAP, 0603 10nF 10% 100V X7R	AVX 06031C103KAT2A
7	4	1	C6	CAP, 0603 1nF 10% 100V X7R	AVX 06031C102KAT2A
8	5	9	C7,C8,C21,C22,C41,C42,	CAP, 1210 2.2uF 10% 100V X7R	MURATA GRM32ER72A225KA35L
9			C58,C59,C74		
10	6	16	C10,C11,C12,C24,C25,C26,	CAP, 1210 22uF 20% 16V X7R	MURATA GRM32ER71C226MEA8L
11			C46,C47,C48,C61,C62,C67,		
12			C88,C89,C90,C93		
13	7	4	C13,C28,C55,C68	CAP, 0603 1nF 10% 16V X7R	AVX 0603YC102KAT2A
14	8	8	C14,C15,C29,C30,C50,C52,	CAP, 150uF 16V ELEC. OS-CON	PANASONIC 16SVP150M
15			C63,C64		
16	9	1	C18	CAP, 0603 8.2nF 10% 50V X7R	AVX 06035C822KAT2A
17	10	2	C20,C36	CAP, 0603 100pF 5% 50V C0G	AVX 06035A101JAT2A
18	11	4	C27,C33,C82,C83	CAP, 0603 10nF 10% 25V X7R	AVX 06033C103KAT2A
19	12	2	C37,C38	CAP, 0603 2.2uF 10% 16V X5R	AVX 0603YD225KAT2A
20	13	2	C39,C45	CAP, 0603 4.7uF 10% 10V X5R	AVX 0603ZD475KAT2A
21	14	2	C40,C43	CAP, 0603 4.7uF 10% 16V X5R	MURATA GRM188R61C475KAAJD
22	15	2	C49,C57	CAP, 0603 10pF 5% 50V C0G	AVX 06035A100JAT2A
23	16	2	C70,C103	CAP, 0805 2.2uF 10% 16V X7R	AVX 0805YC225KAT2A
24	17	1	C72	CAP, 0603 47nF 10% 25V X7R	AVX 06033C473KAT2A
25	18	1	C76	CAP, 0603 0.1uF 10% 25V X7R	AVX 06033C104KAT2A
26	19	1	C78	CAP, 0805 220nF 10% 100V X7R	MURATA GRM21AR72A224KAC5L
27	20	2	C79,C80	CAP, 1210 100uF 20% 10V X5R	TAIYO YUDEN LMK325ABJ107MM-T
28	21	1	C81	CAP, 0603 220pF 10% 50V X7R	AVX 06035C221KAT2A
29	22	2	C84,C101	CAP, 0603 100nF 20% 16V X7R	AVX 0603YC104MAT2A
30	23	2	C94,C95	CAP, 1812 10uF 20% 100V X7S	TDK CKG45NX7S2A106M500JH
31	24	4	C96,C97,C98,C99	CAP, 1206 2.2uF 10% 100V X7R	MURATA GRM31CR72A225KA73L
32	25	1	C100	CAP, 0603 150pF 5% 50V NPO	AVX 06035A151JAT2A
33	26	1	C102	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105MAT2A
34	27	4	D1,D2,D3,D4	DIODE, SCHOTTKY 100V, 1A	DIODES/ZETEX, DFLS1100-7
35	28	4	D5,D6,D13,D14	LED, 0603 GREEN	OSRAM LG L29K-G2J1-24-Z
36	29	1	D7	LED, 0603 RED	OSRAM LS L29K-H1J2-1-Z
37	30	4	L1,L2,L3,L4	IND, 8.6uH	WURTH ELEKTRONIK 7443630860
38	31	1	L5	IND, 68uH	SUMIDA CDRH105RNP-680NC

	A	B	C	D	E
39	32	4	Q1,Q6,Q11,Q15	XSTR, MOSFET N-CH 60V 25A 5 PIN LPAK	RENESAS RJK0651DPB
40	33	4	Q3,Q7,Q13,Q18	XSTR, MOSFET N-CH 60V 45A 5 PIN LPAK	RENESAS RJK0653DPB
41	34	2	Q9,Q10	XSTR, PNP GENERAL PURPOSE SOT-323	DIODES INC. MMST3906-7-F
42	35	1	Q19	XSTR, MOSFET N-CH 30V 30A 5 PIN LPAK	RENESAS RJK0305DPB-00#J0
43	36	1	Q20	XSTR, MOSFET P-CH 20V 5.2A SOT-23	VISHAY SI2365EDS-T1-GE3
44	37	4	Q22,Q23,Q28,Q29	XSTR, MOSFET N-CH 60V 115mA SOT23	FAIRCHILD 2N7002A
45	38	2	R2,R122	RES, 2512 0.003 OHMS 1% 1W	PANASONIC ERJ-M1WTF3M0U
46	39	2	R3,R4	RES, 0603 1k OHMS 5% 1/10W	VISHAY CRCW06031K00JNEA
47	40	6	R5,R6,R7,R8,R124,R125	RES, 2512 0 OHMS JUMPER	VISHAY CRCW25120000Z0EG
48	41	7	R9,R12,R30,R38,R52,R53,	RES, 0603 2 OHMS 5% 1/10W	VISHAY CRCW06032R00JNEA
49			R67		
50	42	12	R10,R11,R13,R15,R16,R18,	RES, 0603 10k OHMS 5% 1/10W	VISHAY CRCW060310K0JNEA
51			R23,R25,R28,R89,R112,		
52			R113		
53	43	4	R14,R37,R58,R70	RES, 2010 3m OHMS 1% 1/2W	VISHAY WSL20103L000FEA
54	44	36	R17,R21,R22,R27,R43,R44,	RES, 0603 0 OHMS JUMPER	VISHAY CRCW06030000Z0EA
55			R45,R56,R57,R59,R60,R61,		
56			R62,R64,R66,R69,R73,R74,		
57			R78,R80,R81,R96,R98,R106,		
58			R109,R118,R121,R128,R129,		
59			R130,R131,R132,R148,R168,		
60			R173,R174		
61	45	9	R24,R26,R50,R51,R63,R65,	RES, 0603 100 OHMS 5% 1/10W	VISHAY CRCW0603100RJNEA
62			R75,R76,R155		
63	46	2	R68,R158	RES, 0603 49.9K OHMS 1% 1/10W	VISHAY CRCW060349K9FKEA
64	47	4	R87,R88,R171,R172	RES, 0603 200 OHMS 5% 1/10W	VISHAY CRCW0603200RJNEA
65	48	1	R91	RES, 2010 0.01 OHMS 1% 1/2W	VISHAY WSL2010R0100FEA
66	49	1	R93	RES, 0603 127 OHMS 1% 1/10W	VISHAY CRCW0603127RFKEA
67	50	1	R99	RES, 0603 220k OHMS 5% 1/10W	VISHAY CRCW0603220KJNEA
68	51	2	R114,R115	RES, 0603 10 OHMS 5% 1/10W	VISHAY CRCW060310R0JNEA
69	52	2	R119,R120	RES, 0603 4.99K OHMS 1% 1/10W	VISHAY CRCW06034K99FKEA
70	53	1	R146	RES, 0805 4.7 OHMS 1% 0.125W	VISHAY CRCW08054R70FKEA
71	54	1	R151	RES, 0603 1M OHMS 5% 1/10W	VISHAY CRCW06031M00JNEA
72	55	1	R152	RES, 0603 681K OHMS 1% 1/10W	VISHAY CRCW0603681KFKEA
73	56	1	R153	RES, 0603 3.3 OHMS 1% 1/10W	VISHAY CRCW06033R30FKEA
74	57	1	R154	RES, 0603 82.5 OHMS 1% 1/10W	VISHAY CRCW060382R5FKEA
75	58	1	R157	RES, 0603 2 OHMS 5% 1/10W	VISHAY CRCW06032R00JNEA
76	59	1	R158	RES, 0603 27.4k OHMS 1% 1/10W	VISHAY CRCW060327K4FKEA

	A	B	C	D	E
77	60	1	R159	RES, 0603 226K OHMS 1% 1/10W	VISHAY CRCW0603226KFKEA
78	61	1	R160	RES, VARIABLE 5K	BOURNS 3386P-1-502-LF
79	62	1	R161	RES, 0603 20K OHMS 5% 1/10W	VISHAY CRCW060320K0JNEA
80	63	2	R162,R163	RES, 1206 0 OHMS JUMPER	VISHAY CRCW12060000Z0EA
81	64	1	R170	RES, 0603 340 OHMS 5% 1/10W	VISHAY CRCW0603340RJNEA
82	65	1	U1	ASSY, IC, WIDE INPUT AND OUTPUT DC/DC CONVERTER	LINEAS TECH. LTC3886IUKG#10E3-1PBF-ES
83	66	1	U2	IC, POLYPHASE STEP-DOWN SLAVE CONTROLLER	LINEAR TECH. LTC3870EUFDF#PBF
84	67	1	U3	IC, SYNCHRONOUS STEP-DOWN CONVERTER	LINEAR TECH. LTC3630EMSE#PBF
85	68	1	U4	IC, 24LC05-I/ST	MICROCHIP 24LC025-I/ST
86	69	1	U5	IC, LTC6992	LINEAR TECH. LTC6992IS6-1
87	70	1	U6	IC, SINGLE OP AMP	LINEAR TECH. LT1803IS5
88					
89	<b>ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:</b>				
90	1	0	C16,C17,C31,C32,C51,C53,	CAP, 7343 OPTION	OPTION
91			C65,C66		
92	2	0	C19,C34,C35,C56,C69,C73	CAP, 0603 OPTION	OPTION
93	3	0	C71,C77,C91,C92	CAP, 0805 OPTION	OPTION
94	4	0	C75	CAP, 1210 OPTION	OPTION
95	5	0	C86,C87	CAP, ELEC OPTION	OPTION
96	6	0	D8	DIODE, ZENER OPTION	OPTION
97	7	0	D9,D12	DIODE, OPTION	OPTION
98	8	0	L1,L2,L3,L4	IND, 6.8uH OPTION	COILCRAFT SER2915H-682KL OPTION
99		0	L1,L2,L3,L4 - ALTERNATE	IND, 6.8uH OPTION	COILCRAFT SER2918H-682KL OPTION
100	9	0	Q2,Q4,Q5,Q8,Q12,Q14,Q16,	XSTR, OPTION	OPTION
101			Q17		
102	10	0	Q27	XSTR, N-CHANNEL DMOS FET OPTION	OPTION
103	11	0	R19,R20,R29,R31,R32,R33,	RES, 0603 OPTION	OPTION
104			R34,R35,R36,R39,R40,R41,		
105			R42,R46,R47,R48,R49,R54,		
106			R55,R71,R72,R77,R79,R82,		
107			R83,R97,R100,R101,R102,		
108			R103,R104,R105,R108,R110,		
109			R111,R116,R117,R144,R145,		
110			R147,R169		
111	12	0	R90,R92,R94,R95	RES, 0805 OPTION	OPTION
112	13	0	R107	RES, 1206 OPTION	OPTION
113					
114	<b>HARDWARE</b>				

	A	B	C	D	E
115	1	26	E1,E2,E3,E4,E5,E6,E7,E8,	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0
116			E11,E12,E14,E16,E18,E20,		
117			E21,E22,E23,E24,E25,E26,		
118			E27,E29,E30,E32,E35,E36		
119	2	5	JP1,JP2,JP3,JP5,JP6	HEADER, 3 PIN 2mm	SULLINS NRPN031PAEN-RC
120	3	6	J1,J2,J3,J4,J5,J6	STUD, TESTPIN	PEM KFH-032-10
121	4	2	J7,J12	CONN, BNC,5 PINS	CONNEX 112404
122	5	1	J9	HEADER, 14PIN DUAL ROW R/A	MOLEX 87760-1416
123	6	1	J10	CONN, SOCKET 14PIN DUAL ROW R/A	SULLINSINC. NPPN072FJFN-RC
124	7	1	J11	HEADER, 12PIN 2mm STR DL	FCI 98414-G06-12ULF
125	8	10		LUG RING, #10	KEYSTONE 8205
126	9	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE_8831
127	10	20		NUT, BRASS 10-32	ANY #10-32
128	11	2	SW1,SW2	SWITCH, SUBMINATURE SLIDE	C&K JS202011CQN
129	12	10		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
130	13	5	XJP1,XJP2,XJP3,XJP5,XJP6	SHUNT	SAMTEC 2SN-BK-G