

	A	B	C	D	E
1	ITEM	QTY	REFERENCE	DESCRIPTION	MANUFACTURER/PART NUMBER
2	REQUIRED CIRCUIT COMPONENTS:				
3	1	24	CIN1, CIN2, CIN3, CIN4, CIN5, CIN6, CIN7, CIN8, CIN9, CIN10, CIN11, CIN12, CIN13, CIN14, CIN15, CIN16, CIN21, CIN22, CIN23, CIN24, CIN25, CIN26, CIN27, CIN28	CAP, 1210 22uF 10% 25V X7R	MURATA GRM32ER71E226KE15L
4	2	19	COUT1, COUT2, COUT5, COUT6, COUT10, COUT11, COUT12, COUT16, COUT19, COUT20, COUT24, COUT25, COUT28, COUT30, COUT32, COUT34, C34, C35, COUT41	CAP, 1210 100uF 20% 6.3V X5R	TDK C3225X5R0J107M
5	3	22	COUT3, COUT4, COUT7, COUT8, COUT9, COUT13, COUT14, COUT15, COUT17, COUT18, COUT22, COUT23, COUT27, COUT29, COUT31, COUT33, COUT35, COUT36, COUT37, COUT38, COUT39, COUT40	CAP, 7343 470uF 20% 2.5V TANT. POLYMER	PANASONIC ETPF470M5H
6	4	6	C7, C19, COUT26, C41, C42, C48	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105KAT2A
7	5	1	C1	CAP, 0603 2.2uF 20% 6.3V X5R	TAIYO YUDEN JMK105BJ225MV-T
8	6	4	C2, C52, C53, C54	CAP, 270uF 20% 16V OSCON	PANASONIC 16SVPC270M
9	7	1	C3	CAP, 0805 2.2uF 10% 16V X7R	MURATA GRM21BR71C225KA12L
10	8	6	C4, C6, C18, C20, C46, C47	CAP, 0603 4.7uF 10% 10V X5R	AVX 0603ZD475KAT2A
11	9	6	C8, C15, C25, C27, C37, C38	CAP, 0603 0.1uF 10% 25V X5R	AVX 06033C104KAT2A
12	10	6	C9, C16, C21, C32, C33, C36	CAP, 0603 220nF 10% 25V X7R	TDK C1608X7R1E224K
13	11	1	C12	CAP, 0603 330pF 5% 50V C0G	MURATA GRM1885C1H331JD01D
14	12	1	C13	CAP, 0603 6.8nF 10% 50V X7R	MURATA GRM188R71H682KA01B
15	13	3	C14, C17, C28	CAP, 0603 10nF 10% 25V X7R	AVX 06033C103KAT2A
16	14	2	C23, C45	CAP, 0603 22pF 5% 50V C0G	MURATA GRM1885C1H220JA01B
17	15	2	C30, C44	CAP, 1210 100uF 20% 10V X5R	TAIYO YUDEN LMK325ABJ107MM-T
18	16	1	C31	CAP, 1210 10uF 10% 16V X7R	MURATA GRM32DR71C106KA01
19	17	2	C39, C50	CAP, 0603 100nF 20% 16V X7R	AVX 0603YC104MAT2A
20	18	1	C40	CAP, 0603 150pF 5% 50V NPO	AVX 06035A151JAT2A
21	19	1	C43	CAP, 0603 220pF 10% 50V X7R	AVX 06035C221KAT2A
22	20	1	C49	CAP, 0603 47nF 10% 25V X7R	AVX 06033C473KAT

	A	B	C	D	E
23	21	6	D1, D2, D3, D4, D8, D12	DIODE, SCHOTTKY 30V, 100mA	CENTRAL SEMI CMDSH-3-TR
24	22	2	D6, D9	LED, 0603 GREEN	WURTH ELEKTRONIK 150060GS75000
25	23	1	D7	LED, 0603 RED	WURTH ELEKTRONIK 150060SS75000
26	24	1	D13	DIODE, ULTRA LOW SCHOTTKY RECTIFIER	NXP SEMI. PMEG2005AEL,315
27	25	6	L1, L2, L3, L4, L6, L7	IND, 0.25uH	WURTH ELEKTRONIK 744301025
28	26	1	L5	IND, 68uH	SUMIDA CDRH105RNP-680N
29	27	12	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q11, Q12, Q13, Q14	XSTR, DUAL CHANNEL OptiMOS MOSFET	INFINEON BSG0811ND
30	28	2	Q9, Q10	XSTR, PNP GENERAL PURPOSE	DIODES INC. MMST3906-7-F
31	29	2	Q20, Q29	XSTR, P-CHANNEL DMOS FET	DIODES INC. DMP3130L-7
32	30	2	Q21, Q26	XSTR, N-CHANNEL DMOS FET	FAIRCHILD 2N7002A
33	31	2	Q23, Q24	XSTR, MOSFET, N-CHANNEL 30V	VISHAY SUD50N03-10CP-E3
34	32	1	R1	RES, 2512 0.001 OHMS 1% 1W	VISHAY WSL25121L000FEA
35	33	1	R2	RES, 0603 1 OHMS 1% 1/10W	VISHAY CRCW06031R00FNEA
36	34	23	R3, R4, R15, R19, R30, R51, R52, R53, R54, R60, R83, R84, R91, R113, R114, R117, R118, R127, R137, R138, R140, R148, R149	RES, 0603 0 OHMS JUMPER	VISHAY CRCW06030000Z0EA
37	35	1	R5	RES, 0603 10 OHMS 1% 0.1W	VISHAY CRCW060310R0FKEA
38	36	7	R6, R8, R10, R56, R98, R108, R123	RES, 0603 10K OHMS 5% 0.1W	VISHAY CRCW060310K0JNEA
39	37	1	R9	RES, 0603 5k OHMS 5% 0.1W	VISHAY CRCW06035K00JNED
40	38	3	R11, R12, R13	RES, 0603 1K OHMS 5% 0.1W	VISHAY CRCW06031K00JNEA
41	39	6	R14, R20, R135, R143, R144, R157	RES, 0603 715 OHMS 1% 0.1W	VISHAY CRCW0603715RFKEA
42	40	1	R16	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
43	41	2	R29, R34	RES, 0603 10K OHMS 5% .01W	VISHAY CRCW060310K0JNEA
44	42	2	R49, R50	RES, 0603 2 OHMS 1% 0.1W	VISHAY CRCW06032R00FNEA
45	43	2	R55, R58	RES, 0603 100K OHMS 5% 0.1W	VISHAY CRCW0603100KJNEA
46	44	5	R59, R95, R96, R107, R158	RES, 0603 20K OHMS 5% 0.1W	VISHAY CRCW060320K0JNEA
47	45	1	R70	RES, 0603 10 OHMS 5% 0.1W	VISHAY CRCW060310R0JNEA
48	46	2	R79, R130	RES, 0603 200 OHMS 5% 0.1W	VISHAY CRCW0603200RJNEA
49	47	1	R81	RES, 0603 127 OHMS 1% 0.1W	VISHAY CRCW0603127RFKEA
50	48	1	R89	RES, 0603 2 OHMS 5% 0.1W	VISHAY CRCW06032R00JNED
51	49	1	R92	RES, 0603 3.3 OHMS 1% 0.1W	VISHAY CRCW06033R30FNEA
52	50	1	R93	RES, 0603 154K OHMS 5% 0.1W	VISHAY CRCW0603154KJNEA
53	51	1	R94	RES, 0603 1M OHMS 5% 0.1W	VISHAY CRCW06031M00JNEA
54	52	1	R97	RES, 0603 681K OHMS 1% 0.1W	VISHAY CRCW0603681KFEA
55	53	1	R99	RES, 0603 301 OHMS 1% 0.1W	VISHAY CRCW0603301RFKEA
56	54	1	R100	RES, 0603 82.5 OHMS 5% 0.1W	VISHAY CRCW060382R5FKEA

	A	B	C	D	E
57	55	2	R101, R102	RES, 2512 0.01 OHMS 1% 1W	VISHAY WSL2512R0100FEA
58	56	1	R103	RES, VARIABLE 5K	BOURNS 3386P-1-502-LF
59	57	1	R104	RES, 0603 1.21K OHMS 1% 0.1W	VISHAY CRCW06031K21FKEA
60	58	1	R105	RES, 0603 118K OHM 1% 0.1W	VISHAY CRCW0603118KFKEA
61	59	1	R106	RES, 0603 80.6k OHMS 1% 0.1W	VISHAY CRCW060380K6FKEA
62	60	2	R128, R150	RES, 0603 4.99K OHMS 1% 0.1W	VISHAY CRCW06034K99FKEA
63	61	1	R147	RES, 0603 15.8K OHMS 1% 0.1W	VISHAY CRCW060315K8FKEA
64	62	1	U1	IC, DUAL OUTPUT STEP-DOWN CONTROLLER	LINEAR TECH. LTC3884EUK#10EV-1PBF-ES
65	63	2	U2, U7	IC, STEP-DOWN SLAVE CONTROLLER	LINEAR TECH. LTC3874EUF
66	64	1	U4	IC, SYNCHRONOUS STEP-DOWN CONVERTER	LINEAR TECH. LTC3630EMSE
67	65	1	U5	IC, TIMER BLOX: VOLTAGE CONTROLLED (PWM)	LINEAR TECH. LTC6992IS6-1
68	66	1	U6	IC, OP AMP	LINEAR TECH. LT1803IS5
69	67	1	U8	IC, SERIAL EEPROM	MICROCHIP 24LC024-I/ST
70	ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:				
71	1	0	C5, C51	CAP, 0603 OPTION	OPTION
72	2	0	D11	DIODE, SCHOTTKY 30V, 100mA OPTION	CENTRAL SEMI CMDSH-3-TR OPTION
73	3	0	R17, R22, R23, R24, R25, R26, R27, R28, R31, R32, R35, R36, R37, R38, R87, R122, R134, R136, R141, R142, R145, R146, R151, R156	RES, 0603 OPTION	OPTION
74	4	0	R85, R159	RES, 2512 OPTION	OPTION
75	5	0	R139	RES, 1206 OPTION	OPTION
76	HARDWARE FOR DEMO BOARD ONLY:				
77	1	16	E1, E2, E3, E4, E7, E8, E21, E22, E23, E24, E25, E26, E28, E34, E36, E37	TURRET	MILL MAX 2501-2-00-80-00-00-07-0
78	2	5	JP1, JP2, JP3, JP4, JP5	HEADER, SINGLE ROW 3PIN	SAMTEC TMM-103-02-L-S
79	3	6	J1, J2, J3, J4, J5, J6	STUD, TEST PIN	PEM KFH-032-10
80	4	14		NUT, BRASS 10-32	ANY #10-32
81	5	7		LUG RING, #10	KEYSTONE 8205
82	6	7		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
83	7	2	J11, J12	CONN, BNC, 5 PINS	CONNEX 112404
84	8	1	J13	CONN, SOCKET 14PIN DUAL ROW R/A	SULLINS INC. NPPN072FJFN-RC
85	9	1	J14	HEADER, 12PIN 2mm STR DL	FCI 98414-G06-12ULF
86	10	1	J15	HEADER, 14PIN DUAL ROW R/A	MOLEX 87760-1416
87	11	1	J16	HEADER, 4PIN 2mm STR DL	HIROSE DF3A-4P-2DSA
88	12	4	MH1, MH2, MH3, MH4	STANDOFF, SNAP ON	KEYSTONE 8834

	A	B	C	D	E
89	13	1	SW2	SWITCH, SUBMINATURE SLIDE	C&K JS202011CQN
90	14	5	XJP1, XJP2, XJP3, XJP4, XJP5	SHUNT	SAMTEC 2SN-BK-G
91					
92	86	total			