

Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
REQUIRED CIRCUIT COMPONENTS:				
1	8	CIN1,CIN2,CIN3,CIN4,CIN5, CIN6,CIN7,CIN8	CAP, 1210 10uF 20% 35V X5R	AVX 1210DD106MAT2A
2	14	COUT1,COUT2,COUT6,COUT7, COUT9,COUT12,COUT13, COUT14,COUT19,COUT20, COUT24,COUT25,C39,C40	CAP, 1210 100uF 20% 6.3V X5R	TDK C3225X5R0J107M
3	12	COUT3,COUT4,COUT5,COUT8, COUT10,COUT11,COUT15, COUT16,COUT17,COUT18, COUT22,COUT23	CAP, 7343 330uF 20% 6.3V POSCAP	SANYO 6TPF330M9L
4	3	C3,C25,C29	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105KAT2A
5	2	C1,C2	CAP, 270uF 20% 16V OSCON	PANASONIC 16SVPC270M
6	4	C4,C30,C31,C46	CAP, 0603 4.7uF 10% 10V X5R	AVX 0603ZD475KAT2A
7	1	C5	CAP, 0603 10nF 10% 16V X7R	AVX 0603YC103KAT2A
8	5	C7,C8,C18,C32,C36,	CAP, 0603 0.1uF 10% 25V X5R	AVX 06033C104KAT2A
9	6	C10,C12,C20,C24,C33,C35	CAP, 0603 220nF 10% 25V X7R	TDK C1608X7R1E224K
10	1	C15	CAP, 0603 220pF 5% 50V C0G	AVX 06035A221JAT2A
11	1	C16	CAP, 0603 2.2nF 5% 50V C0G	MURATA GRM1885C1H222JA01D
12	1	C34	CAP, 0603 100pF 10% 16V X7R	AVX 0603YC101KAT2A
13	1	D1,D2,D3,D4	DIODE, SCHOTTKY 30V, 100mA	CENTRAL SEMI CMDSH-3-TR
14	4	L1,L2,L3,L4	IND, 0.25uH	WURTH ELEKTRONIK 744301025
15	4	Q1,Q5,Q10,Q15	XSTR, POWER MOSFET	INFINEON BSC050NE2LS
16	4	Q3,Q7,Q13,Q17	XSTR, POWER MOSFET	INFINEON BSC010NE2LSI
17	1	Q19	XSTR, N-CHANNEL DMOS FET	FAIRCHILD 2N7002A
18	2	Q20,Q21	XSTR, MOSFET, N-CHANNEL 30V	VISHAY SUD50N04-8M8P-4GE3
19	1	R1	RES, 0603 20K OHMS 5% 1/10W	VISHAY CRCW060320K0JNEA
20	1	R2	RES, 0603 3.01k OHMS 1% 1/10W	VISHAY CRCW06033K01FKEA
21	1	R3	RES, 0603 1K OHMS 5% 1/10W	VISHAY CRCW06031K00JNEA
22	3	R4,R51,R85	RES, 0603 2.2 OHMS 5% 1/10W	VISHAY CRCW06032R20JNEA
23	2	R6,R14	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
24	4	R8,R28,R58,R66	RES, 0603 715 OHMS 1% 1/10W	VISHAY CRCW0603715RFKEA
25	2	R9,R27	RES, 0603 3.57k OHMS 1% 1/10W	VISHAY CRCW06033K57FKEA
26	13	R10,R13,R24,R50,R53,R54, R56,R57,R59,R60,R61,R65, R67	RES, 0603 0 OHMS JUMPER	VISHAY CRCW06030000Z0EA
27	1	R12	RES, 0603 13.3k OHMS 1% 1/10W	VISHAY CRCW060313K3FKEA
28	1	R17	RES, 0603 20k OHMS 1% 1/10W	VISHAY CRCW060320K0FKEA

29	1	R21	RES, 0603 4.02K OHMS 1% 1/10W	VISHAY CRCW06034K02FKEA
30	3	R33,R42,R69	RES, 0603 100K OHMS 1% 1/10W	VISHAY CRCW0603100KFKEA
31	1	R45	RES, 0603 5k OHMS 5% 1/10W	VISHAY CRCW06035K00JNEA
32	2	R46,R47	RES, 0603 10K OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
33	1	R63	RES, 0603 75k OHMS 5% 1/10W	VISHAY CRCW060375K0JNEA
34	1	R102	RES, 0603 237K OHMS 1% 1/10W	VISHAY CRCW0603237KFKEA
35	1	SW1	SWITCH, SUBMINATURE SLIDE	C&K JS202011CQN
36	1	U1	IC, DUAL, 2-PHASE, SYNCHRONOUS REGULATORS	LINEAR TECH. LTC3875EUJ#PBF-ES
37	1	U2	IC, POLYPHASE STEP-DOWN SYNCHRONOUS SLAVE CONTROLLER	LINEAR TECH.LTC3874IUFD#PBF
ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:				
1	0	COUT27,COUT28,COUT29, COUT30,COUT31,COUT32, COUT33,COUT34,COUT35, COUT36,COUT37,COUT38, COUT39,COUT40,COUT41, COUT42,COUT43,COUT44, COUT45,COUT46	CAP, 1210 OPTION	OPTION
2	0	C9,C11,C26,C27,C28	CAP, 0603 OPTION	OPTION
3	4	C43,C44,C47,COUT21,	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105KAT2A
4	1	C37	CAP, 0805 10uF 10% 16V X5R	MURATA GRM21BR61C106KE15L
5	1	C38	CAP, 0805 22uF 10% 10V X5R	TDK C2012X5R1A226K
6	1	C42	CAP, 0603 150pF 5% 50V NPO	AVX 06035A151JAT2A
7	2	C41,C45	CAP, 0603 0.1uF 10% 25V X5R	AVX 06033C104KAT2A
8	1	C48	CAP, 0603 22pF 2% 50V C0G	MURATA GRM1885C1H220GA01D
9	1	D5	DIODE, SCHOTTKY 30V, 100mA	CENTRAL SEMI CMD5H-3-TR
10	1	L5	IND, 3.3uH	WURTH ELEKTRONIK 744043003
11	0	Q2,Q4,Q6,Q8,Q11,Q14,Q16, Q18	XSTR, POWER MOSFET OPTION	OPTION
12	2	R88,R92	RES, 0603 20K OHMS 5% 1/10W	VISHAY CRCW060320K0JNEA
13	2	R68,R87	RES, 0603 0 OHMS JUMPER	VISHAY CRCW060300000Z0EA
14	0	RN1,RN2	THERMISTOR, OPTION	OPTION
15	0	R5,R7,R11,R15,R16,R18, R19,R34,R35,R37,R39,R40, R41,R43,R44,R48,R49,R52, R55,R62,R64,R70,R76,R101, R104,R105	RES, 0603 OPTION	OPTION
16	2	R77,R94	RES, 0603 10K OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
17	1	R80	RES, 0603 187k OHM 1% 1/10W	VISHAY CRCW0603187KFKEA
18	1	R83	RES, 0603 23.2K OHMS 1% 1/10W	VISHAY CRCW060323K2FKEA

19	1	R89	RES, 0603 3.3 OHMS 1% 1/10W	VISHAY CRCW06033R30FNEA
20	1	R90	RES, 0603 154k OHMS 1% 1/10W	VISHAY CRCW0603154KFKEA
21	1	R91	RES, 0603 1M OHMS 5% 1/10W	VISHAY CRCW06031M00JNEA
22	1	R93	RES, 0603 681K OHMS 1% 1/10W	VISHAY CRCW0603681KFEA
23	2	R95,R100	RES, 0603 301 OHMS 1% 1/10W	VISHAY CRCW0603301RFKEA
24	1	R96	RES, 0603 82.5 OHMS 5% 1/10W	VISHAY CRCW060382R5FKEA
25	2	R97,R98	RES, 2512 0.01 OHMS 1% 1W	VISHAY WSL2512R0100FEA
26	1	R99	RES, VARIABLE 5K	BOURNS 3386P-1-502-LF
27	1	UD1	IC, Oscillator with Spread Spectrum Modulation	LINEAR TECH. LTC6908S6-1 #PBF
28	1	U3	IC, 17V, 1A Synchronous Step-Down Regulator	LINEAR TECH. LTC3621EDCB-2 #PBF
29	1	U4	IC, VOLTAGE-CONTROLLED PULSE WIDTH MODULATOR	LINEAR TECH. LTC6992IS6-1
30	1	U5	IC, SINGLE OP AMP	LINEAR TECH. LT1803IS5
HARDWARE				
1	12	E1,E2,E3,E4,E5,E6,E7,E11, E13,E14,E15,E16	TURRET	MILL MAX 2501-2-00-80-00-00-07-0
2	1	JP1	HEADER, 4PIN	SAMTEC TMM-104-02--L-S
3	2	JP6,JP7	HEADER, SINGLE ROW 3PIN	SAMTEC TMM-103-02-L-S
4	6	J1,J2,J3,J4,J5,J6	STUD, TEST PIN	PEM KFH-032-10
5	2	J7,J9	CONN, BNC, 5 PINS	CONNEX 112404
6	6		LUG RING, #10	KEYSTONE 8205
7	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE 8834
8	12		NUT, BRASS 10-32	ANY #10-32
9	6		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
10	3	JP1,JP6,JP7	SHUNT	SAMTEC 2SN-BK-G