

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2					
3					
4	<b>REQUIRED CIRCUIT COMPONENTS:</b>				
5	1	1	CIN1	CAP, 100uF 20% 200V ELEC	NIC NRB-XS101M200V16x20TBF
6	2	5	CIN2,CIN3,CIN4,CIN5,C14	CAP, 1812 0.47uF 10% 200V X7R	MURATA GRM43DR72E474KW01L
7	3	2	CIN6,CIN7	CAP, 1210 0.1uF 10% 200V X7R	MURATA GRM32DR72D104KW01L
8	4	1	COU1	CAP, 1210 22uF 10% 16V X7R	TDK C3225X7R1C226K
9	5	2	COU2,COU3	CAP, 7343 150uF 20% 16V	AVX TPSD157M016R0125
10	6	3	C2,C4,C13	CAP, 0603 0.1uF 10% 25V X7R	TDK C1608X7R1E104K
11	7	1	C3	CAP, 0603 1nF 10% 50V X7R	AVX 06035C102KAT2A
12	8	1	C6	CAP, 0603 4700pF 10% 50V X7R	AVX 06035C472KAT2A
13	9	1	C7	CAP, 0603 1uF 20% 16V X7R	TDK C1608X7R1C105M
14	10	1	C9	CAP, 0603 10pF 10% 50V X7R	AVX 06035C100KAT2A
15	11	1	C10	CAP, 0603 100pF 5% 50V NPO	AVX 06035A101JAT2A
16	12	1	C11	CAP, 1206 0.033uF 20% 200V	VISHAY VJ1206Y333MXCAC
17	13	1	C12	CAP, 0603 4.7uF 20% 16V X5R	TDK C1608X5R1C475M080AC
18	14	1	C15	CAP, 1210 4.7uF 20% 16V X7R	AVX 1210YC475KAT2A
19	15	1	L1	IND, 33uH 15%	WURTH ELEKTRONIK 7443633300
20	16	1	L2	IND, 470uH	COILCRAFT MSS1048T-474KLB
21	17	1	L3	IND, 1.0uH	VISHAY IHLP-1616BZER1R0M11
22	18	3	Q2,Q3,Q4	XSTR, N-CHANNEL DMOS FET	INFINEON BSC520N15NS3G
23	19	1	RS1	RES, 2512 0.006 OHMS 5% 1/4W	VISHAY WSL25126L000FEA18
24	20	1	R1	RES, 0603 191K OHMS 1% 1/10W	VISHAY CRCW0603191KFKEA
25	21	1	R2	RES, 0603 1.74K OHMS 1% 1/10W	VISHAY CRCW06031K74FKEA
26	22	8	R8,R10,R22,R24,R27,R28,	RES, 0603 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
27			R29,R35		
28	23	1	R9	RES, 0603 10M OHMS 5% 1/10W	VISHAY CRCW060310M0JNEA
29	24	1	R12	RES, 0603 2.2 OHMS 5% 1/10W	VISHAY CRCW06032R20JNEA
30	25	1	R13	RES, 0603 10K OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
31	26	1	R14	RES, 0603 10K OHMS 5% 1/10W	VISHAY CRCW060310K0JNEA
32	27	1	R15	RES, 0603 140K OHMS 1% 1/10W	VISHAY CRCW0603140KFKEA
33	28	3	R16,R17,R23	RES, 0603 100K OHMS 5% 1/10W	VISHAY CRCW0603100KJNEA
34	29	1	R18	RES, 0603 49.9K OHMS 1% 0.1W	VISHAY CRCW060349K9FKEA
35	30	1	R25	RES, 0603 30.1K OHMS 1% 1/10W	VISHAY CRCW060330K1FKEA
36	31	1	R26	RES, 0603 80.6K OHMS 1% 1/10W	VISHAY CRCW060380K6FKEA
37	32	2	R30,R36	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
38	33	1	R31	RES, 0603 2M OHMS 1% 1/10W	VISHAY CRCW06032M00FKEA

	A	B	C	D	E
39	34	1	R32	RES, 0603 267K OHMS 1% 1/10W	VISHAY CRCW0603267KFKEA
40	35	1	R34	RES, 0603 196k OHMS 1% 1/10W	VISHAY CRCW0603196KFKEA
41	36	1	U1	IC, SYNCHRONOUS BUCK CONVERTER	LINEAR TECH. LTC3895EFE
42	37	1	U2	IC, SYNCHRONOUS STEP DOWN REGULATOR	LINEAR TECH LTC3639EMSE
43					
44			<b>ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:</b>		
45		0	CIN8	CAP, 1812 OPTION	OPTION
46	1	0	COU4	CAP, 7343 OPTION	OPTION
47	2	0	C1,C5,C8,C16	CAP, 0603 OPTION	OPTION
48	3	0	D1,D2	DIODE, OPTION	OPTION
49	4	0	L1 - ALTERNATE	IND, 33uH 15%	WURTH ELEKTRONIK 7443643300
50	5	0	L4	IND, 22uH OPTION	COILCRAFT SER2915H-223KL OPTION
51	6	0	Q1	XSTR, POWER	OPTION
52	7	0	Q5	XSTR, NMOS OPTION	OPTION
53	8	0	Q6,Q7	XSTR, OPTIMOS POWER -TRANSISTOR OPTION	INFINEON IPD320N20N3 G OPTION
54	9	0	Q12,Q13	XSTR, OPTION	OPTION
55	10	0	R3,R4,R5,R6,R7,R11,R19,R20,	RES, 0603 OPTION	OPTION
56	11		R21,R37,R38,R39,R40		
57		0	R33	RES, 1206 OPTION	OPTION
58	12				
59					
60			<b>HARDWARE</b>		
61		11	E2,E3,E4,E5,E6,E7,E8,E9,	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0
62	1		E10,E11,E12		
63		3	JP1,JP5,JP8	HEADER,3PIN, 2mm	SULLINS NRPN031PAEN-RC
64	2	1	JP2	HEADER, 4PIN 2mm	SULLINS NRPN041PAEN-RC
65	3	3	JP3,JP6,JP7	HEADER, 2PIN, 2mm	SULLINS NRPN021PAEN-RC
66	4	1	JP4	HEADER, DOUBLE ROW 2X4 2mm	SULLINS NRPN042PAEN-RC
67	5	4	J1,J2,J3,J4	JACK, BANANA	KEYSTONE 575-4
68	6	8	XJP1,XJP2,XJP3,XJP4,XJP5,	SHUNT, 2mm	SAMTEC 2SN-BK-G
69	7		XJP6,XJP7,XJP8		
70		4		STANDOFF, SNAP ON	KEYSTONE_8833
71	8				