

	A	B	C	D	E
1	Item	Qty	Ref - des	Desc	Manufacturer's Part Number
2					
3	<b>REQUIRED CIRCUIT COMPONENTS:</b>				
4	1	1	CC1	CAP, 0603 100pF 10% 50V C0G	AVX 06035A101KAT2A
5	2	1	CC2	CAP, 0603 10nF 10% 50V X7R	AVX 06035C103KAT2A
6	3	2	CIN1,CIN2	CAP, 10uF 20% 125V ALUN ELEC	SUN ELEC. IND. CORP. 5HVH10M
7	4	2	COUT1,COUT2	CAP, 56uF 20% 63V HYB POLYMER	UNITED CHEMI-CON HHXA630ARA560MJA0G
8	5	3	C59,C62,CSS	CAP, 0603 0.1uF 10% 50V X7R	AVX 06035C104KAT2A
9	6	2	C4,C22	CAP, 0603 0.22uF 10% 25V X7R	AVX 06033C224KAT2A
10	7	9	C9,C14,C25,C26,C27,C35,	CAP, 2220 1uF 10% 250V X7R	MURATA GRM55DR72E105KW01L
11			C36,C37,C58		
12	8	1	C10	CAP, 0603 4.7uF 10% 6.3V X5R	AVX 06036D475KAT2A
13	9	1	C11	CAP, 0603 220pF 5% 100V C0G	MURATA GRM1885C2A221JA01D
14	10	6	C15,C40,C42,C43,C44,C45	CAP, 0805 0.1uF 10% 250V X7T	TDK CGA4J3X7T2E104K125AE
15	11	12	C16,C17,C19,C20,C21,C23,	CAP, 1210 3.3uF 10% 100V X7R	AVX 12101C335K4T2A
16			C28,C29,C30,C31,C32,C53		
17	12	1	C18	CAP, 1206 10uF 10% 25V X5R	MURATA GRM31CR61E106KA12L
18	13	1	C24	CAP, 0603 1uF 10% 50V X5R	TDK C1608X5R1H105K080AB
19	14	1	C56	CAP, 0805 10uF 10% 25V X5R	MURATA GRM21BR61E106KA73L
20	15	1	C57	CAP 10uF 20% 200V ELEC	NICHICON UUB2D100MNL1GS
21	16	2	C60,C61	CAP. 1210 22uF10% 25V X5R	AVX 12103D226KAT2A
22	17	2	D4,D7	DIODE, SCHOTTKY 1A 200V POWERDI123	DIODES INC. DFLS1200-7
23	18	1	D8	DIODE, ZENER 5.1V 350mW SOT23-3	DIODES INV. BZX84C5V1-7-F
24	19	1	L1	IND, 15uH	WURTH ELECTRONIK 7443641500
25	20	1	L3	IND, 220uH 30%	SUMIDA CDRH105RNP-221NC
26	21	1	Q3	XSTR, N-CHANNEL POWER MOSFET	INFINEON BSC028N06NS
27	22	1	Q4	XSTR, N-CHANNEL POWER MOSFET	INFINEON BSC093N15NS5
28	23	2	Q5,Q9	XSTR, N-CHANNEL POWER MOSFET	INFINEON BSC066N06NS
29	24	2	Q2,Q6	XSTR, N-CHANNEL POWER MOSFET	INFINEON BSC110N15NS5
30	25	1	RC	RES, 0603 10K OHMS 5% 0.1W	VISHAY CRCW060310K0JNEA
31	26	1	RFB1	RES, 0805 47.5K OHMS 1% 0.125W	VISHAY CRCW080547K5FKEA
32	27	2	RFB2,R25	RES, 0603 1.21K OHMS 1% 0.1W	VISHAY CRCW06031K21FKEA
33	28	9	R1,R11,R16,R17,R23,R33,	RES, 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
34			R35,R36,R52		
35	29	1	R2	RES, 2512 0.004 OHMS 1% 1W	PANASONIC ERJ-M1WSF4M0U
36	30	4	R3,R4,R9,R10	RES, 0603 100 OHMS 1% 0.1W	VISHAY CRCW0603100RFKEA
37	31	1	R5	RE, 0805 5.1 OHMS 5% 0.125W	VISHAY CRCW08055R10JNEA
38	32	1	R7	RES, 0603 100K OHM 1% 0.1W	VISHAY CRCW0603100KFKEA

	A	B	C	D	E
39	33	3	R8,R27,R53	RES, 0603 10 OHMS 5% 0.1W	VISHAY CRCW060310R0JNEA
40	34	2	R13,R14	RES, 0603 1K OHMS 1% 0.1W	VISHAY CRCW06031K00FKEA
41	35	2	R18,R19	RES, 2512 0.008 OHMS 1% 2W	BOURNS CRE2512-FZ-R008E-2
42	36	1	R20	RES, 2512 0 OHM JUMPER	TEPRO RN5326
43	37	1	R21	RES, 0603 56.2K OHMS 1% 0.1W	VISHAY CRCW060356K2FKEA
44	38	1	R22	RES, 0805 124K OHMS 1% 0.125W	VISHAY CRCW0805124KFKEA
45	39	1	R31	RES, 0805 3K OHMS 1% 0.125W	VISHAY CRCW08053K00FKEA
46	40	1	R32	RES.,AEC-Q200,2M OHMS,1%,1/10W,0603	VISHAY CRCW06032M00FKEA
47	41	1	R39	RES, 0805 41.2K OHMS 1% 0.125W	VISHAY CRCW080541K2FKEA
48	42	1	R49	RES, 0603 715K OHMS 1% 0.1W	VISHAY CRCW0603715KFKEA
49	43	1	R50	RES, 0603 51.1K OHMS 1% 0.1W	VISHAY CRCW060351K1FKEA
50	44	1	U1	IC, BUCK-BOOST CONVERTER	LINEAR TECH. LTC3777
51					
52	<b>ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:</b>				
53	1	0	CF1,C64	CAP, 0603 OPTION	OPTION
54	2	0	C7,C8,C12,C13,C63	CAP, 0805 OPTION	OPTION
55	3	0	C41,C46,C47,C54,C55	CAP, 0805 0.1uF 10% 250V X7T OPTION	TDK CGA4J3X7T2E104K125AE OPTION
56	4	0	D9	DIODE, OPTION	DIODES INC. BAS16-7-F OPTION
57	5	0	D10	DIODE, SCHOTTKY OPTION SMB	OPTION
58	6	0	D11	DIODE, SCHOTTKY OPTION SMA	OPTION
59	7	0	D12,D13	DIODE, SCHOTTKY OPTION POWERDI5	OPTION
60	8	0	L2	IND, OPTION	OPTION
61	9	0	Q7,Q8	XSTR, N-CHANNEL POWER MOSFET OPTION	OPTION
62	10	0	Q11,Q12,Q13,Q14,Q15,Q16,	XSTR, AUTOMOTIVE MOSFET OPTION	OPTION
63			Q17,Q18,Q19,Q20,Q21,Q22,		
64			Q23,Q24,Q25,Q26		
65	11	0	R6,R12,R15,R34,R40,R41,	RES, 0603 OPTION	OPTION
66			R48,R51		
67	12	0	R28,R29,R54	RES, 0805 OPTION	OPTION
68	13	0	R37,R38	RES, 2512 0.01 OHMS 1% 1W OPTION	VISHAY WSL2512R0100FEA OPTION
69					
70	<b>HARDWARE</b>				
71	1	4	E1,E2,E3,E7	TURRET	MILL-MAX 2308-2-00-80-00-00-07-0
72	2	10	E4,E5,E6,E8,E9,E10,E11,	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0
73			E12,E13,E14		
74	3	1	JP2	HEADER, 3PIN, DBL ROW 2mm	SAMTEC TMM 103-02-L-D
75	4	4	J1,J2,J3,J4	JACK, BANANA	KEYSTONE 575-4
76	5	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE 8834

	A	B	C	D	E
77	6	1	SW1	SWITCH, SUB-MINIATURE SLIDE 300mA 6V	C&K JS202011CQN
78	7	2	XJP2,XJP3	SHUNT 2mm	WURTH ELEKTRONIK 60800213421