

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2	1	10	C1,C14,C15,C16,C17,C53,	CAP, 1812 2.2uF 10% 100V X7R	TDK C4532X7R2A225K
3			C54,C55,C61,C75		
4	2	2	C2,C60	CAP, 100uF 20% 63V ELEC	SUN ELECT. 63CE100KX
5	3	2	C3,C49	CAP, 0805 0.1uF 10% 100V X7R	TDK C2012X7R2A104K
6	4	2	C4,C64	CQP, 0805 4.7uF 10% 16V X7R	AVX, 0805YC475KAT2A
7	5	8	C5,C32,C33,C39,C67,C78,	CAP, 0603 0.1uF 10% 50V X7R	TDK C1608X7R1H104K
8			C79,C80		
9	6	1	C6	CAP, 0603 470pF 10% 50V X7R	MURATA GRM188R71H471KA01D
10	7	1	C7	CAP, 0603 22pF 10% 50V C0G	AVX 06035A220KAT2A
11	8	3	C8,C46,C62	CAP, 0603 47pF 5% 100V NPO	AVX 06031A470JAT2A
12	9	2	C9,C34	CAP, 0603 10nF 10% 100V X7R	AVX, 06031C103KAT2A
13	10	0	C10,C19,C26,C38,C83,C84,	CAP, 1210 OPTION	OPTION
14			C85,C86,C87		
15	11	2	C11,C68	CAP, 0603 0.1uF 10% 100V X7R	MURATA GRM188R72A104KA35D
16	12	4	C12,C13,C57,C63	CAP, 0603 2.2pF 10% 100V NPO	AVX, 06031A2R2KAT2A
17	13	4	C18,C27,C59,C71	CAP, 0603 1uF 10% 16V X7R	AVX, 0603YC105KAT2A
18	14	4	C20,C25,C73,C76	CAP, 150uF 20% 16V ALUM	PANASONIC 16SVPC150M
19	15	0	C21,C24,C41,C42,C43,C44,	CAP, 150uF 20% 16V ALUM OPTION	PANASONIC 16SVPC150M OPTION
20			C47,C74		
21	16	4	C22,C23,C66,C72	CAP, 1206 10uF 10% 16V X7R	AVX, 1206YC106KAT2A
22	17	0	C28,C29,C45,C48,C50,C52,	CAP, 0603 OPTION	OPTION
23			C56,C65,C77,C88,C89,C90,		
24			C91,C92,C93,C94,C95,C96,		
25			C97,C98,C99		
26	18	4	C30,C31,C51,C58	CAP, 0603 0.22uF 10% 25V X5R	AVX 06033D224KAT2A
27	19	2	C35,C36	CAP, 0603 1nF 10% 25V X7R	AVX 06033C102KAT2A
28	20	1	C37	CAP, 0603 100pF 10% 100V NPO	AVX, 06031A101KAT2A
29	21	2	C40,C100	CAP, 33uF 20% 63V ELEC	SUN ELECT., 63HVVH33M
30	22	1	C69	CAP, 0603 4.7nF 10% 25V X7R	AVX, 06033C472KAT2A
31	23	0	C70	CAP, 100uF 20% 63V ELEC OPTION	SUN ELECT., 63CE100KX OPTION
32	24	27	R7,R12,R16,R17,R18,R27,	RES, 0603 0 OHM JUMPER	VISHAY CRCW06030000Z0EA
33			R28,R44,R45,R49,R51,R57,		
34			R60,R64,R67,R74,R76,R80,		
35			R81,C81,R82,C82,R83,R84,		
36			R85,R89,R90		
37	25	0	D1,D2,D3	DIODE, SCHOTTKY 30V, 100mA OPTION	CENTRAL SEMI CMDSH-3-TR OPTION
38	26	1	D4	DIODE, ZENER 5.1V	DIODES INC. MMSZ5231BS

	A	B	C	D	E
39	27	5	E1,E2,E3,E4,E5	TURRET	MIIL-MAX 2501-2-00-80-00-00-07-0
40	28	1	JP1	HEADER, 3PIN, DBL ROW 2mm	SULLINS, NRPN032PAEN-RC
41	29	2	JP2,JP3	HEADER, 2mm, 3PIN	SULLINS, NRPN031PAEN-RC
42	30	10	J1,J2,J3,J4,J5,J7,J8,J9,	STUD, TESTPIN	PEM KFH-032-10
43			J12,J13		
44	31	10		LUG RING, #10	KEYSTONE 8205
45	32	4	L1,L2,L5,L6	IND, 10uH	COILCRAFT SER2918H-103
46	33	0	L3,L4,L7,L8	IND, OPTION	OPTION
47	34	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE_8831
48	35	20		NUT, BRASS 10-32	ANY #10-32
49	36	8	Q1,Q2,Q3,Q4,Q17,Q20,Q22,	XSTR, MOSFET N-CH 80V 100A TDSON-8	INFINEON BSC123N08NS3 G
50			Q24		
51	37	8	Q5,Q6,Q7,Q8,Q18,Q19,Q21,	XSTR, MOSFET N-CH 80V 100A TDSON-8	INFINEON BSC042NE7NS3
52			Q23		
53	38	0	Q9,Q10,Q11,Q12,Q13,Q14,	XSTR, MOSFET OPTION	OPTION
54			Q15,Q16,Q25,Q26,Q27,Q28,		
55			Q29,Q30,Q31,Q32		
56	39	1	Q33	XSTR, SMALL SIGNAL, NPN	DIODES INC. MMBT3904
57	40	0	Q34,R50,R59,R61	DO NOT STUFF	NONE
58	41	4	RS1,RS2,RS3,RS4	RES, 2010 0.003 OHM 1% 1W	VISHAY WSL20103L000FEA18
59	42	2	R_PRG1,R_PRG	RES, 0603 29.4k OHMS 1% 1/10W	VISHAY, CRCW060329K4FKEA
60	43	2	R1,R62	RES. 1206 2.2 OHMS 1% 1/4W	VISHAY CRCW12062R20FKEA
61	44	0	R2,R3,R4,R5,R13,R21,R22,	RES, 0603 OPTION	OPTION
62			R23,R24,R25,R26,R29,R31,		
63			R46,R53,R54,R55,R56,R65,		
64			R71,R72,R73,R77,R78,R79		
65	45	1	R8	RES, 0603 100k OHMS 5% 1/10W	VISHAY CRCW0603100KJNEA
66	46	1	R9	RES, 0805 499k OHMS 1% 1/8W	VISHAY, CRCW0805499KFKEA
67	47	3	R10,R33,R37	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
68	48	1	R11	RES, 0603 35.7k OHMS 1% 1/10W	VISHAY CRCW060335K7FKEA
69	49	1	R14	RES, 0603 1.5k OHMS 1% 1/10W	VISHAY CRCW06031K50FKEA
70	50	4	R19,R20,R63,R66	RES, 0603 100 OHMS 5% 1/10W	VISHAY, CRCW0603100RJNEA
71	51	2	R30,R48	RES, 0603 90.9k OHMS 1% 1/10W	VISHAY CRCW060390K9FKEA
72	52	5	R32,R35,R38,R39,R40	RES, 0603 10k OHMS 1% 1/10W	VISHAY CRCW060310K0FKEA
73	53	4	R34,R43,R52,R86	RES, 2010 0.001 OHM 1% 1W	VISHAY, WSL20101L000FEA18
74	54	2	R36,R41	RES, 0603 392k OHMS 1% 1/10W	VISHAY CRCW0603392KFKEA
75	55	1	R42	RES, 0603 3.3k OHMS 5% 1/10W	VISHAY CRCW06033K30JNEA
76	56	0	R47,R58	RES, 0603 10k OHMS 1% 1/10W OPTION	VISHAY CRCW060310K0FKEA OPTION

	A	B	C	D	E
77	57	2	U1,U4	IC, DUAL OUTPUT HIGH VOLTAGE STEP-DOWN CONVERTER	LINEAR TECH. LTC3892EFE-1#PBF
78	58	1	U2	IC, HIGH VOLTAGE BIDIRECTIONAL CURRENT SENSE AMP	LINEAR TECH. LT1999CS8-10#PBF
79	59	1	U5	IC, Op Amp, Comparator and Reference	LINEAR TECH. LTC1541CMS8#PBF
80	60	1	U6	IC, Dual and Quad, Single Supply, Precision Op Amps	LINEAR TECH. LT2078CS8#PBF
81	61	1	U7	IC, Low Power Dual Comparators with Reference	LINEAR TECH. LTC1843CS8#PBF
82	62	1	U8	IC, Multiphase Oscillator with Spread Spectrum Frequency Modulation	LINEAR TECH. LTC6902CMS#PBF
83	63	10		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
84	64	3	XJP1,XJP2,XJP3	SHUNT, 2mm	SAMTEC 2SN-BK-G