

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2	1	16	CIN1,CIN2,CIN3,CIN4,CIN5,	CAP, 1210 22uF 10% 25V X7R	MURATA GRM32ER71E226KE15L
3			CIN6,CIN7,CIN8,CIN9,		
4			CIN10,CIN11,CIN12,CIN13,		
5			CIN14,CIN15,CIN16		
6	2	0	CIN17,CIN18,CIN19,CIN20,	CAP, 1210 OPTION	OPTION
7			CIN21,CIN22,CIN23,CIN24		
8	3	16	COUT1,COUT2,COUT5,COUT6,	CAP, 1210 100uF 20% 6.3V X5R	TDK C3225X5R0J107M
9			COUT10,COUT11,COUT12,		
10			COUT16,COUT19,COUT20,		
11			COUT24,COUT25,COUT27,		
12			COUT28,C34,C35		
13	4	8	COUT3,COUT4,COUT7,COUT8,	CAP, 7343 470uF 20% 2.5V TANT POLYMER	PANASONIC ETPF470M5H
14			COUT9,COUT13,COUT14,		
15			COUT15		
16	5	0	COUT17,COUT18,COUT22,	CAP, 7343 470uF 20% 2.5V TANT POLYMER OPTION	PANASONIC ETPF470M5H OPTION
17			COUT23		
18	6	6	C7,COUT21,COUT26,C36,C41,	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105KAT2A
19			C42		
20	7	2	C1,C47	CAP, 0603 2.2uF 20% 6.3V X5R	TDK C1608X5R0J225M080AB
21	8	2	C2,C32	CAP, 270uF 20% 16V OSCON	PANASONIC 16SVPC270M
22	9	2	C3,C23	CAP, 0805 2.2uF 10% 16V X5R	TDK C2012X5R1C225K125AC
23	10	4	C4,C6,C24,C29	CAP, 0603 4.7uF 10% 10V X5R	AVX 0603ZD475KAT2A
24	11	0	C5,C12,C13,C45,C48	CAP, 0603 OPTION	OPTION
25	12	4	C8,C15,C37,C46	CAP, 0603 0.1uF 10% 25V X5R	AVX 06033C104KAT2A
26	13	4	C9,C16,C21,C33	CAP, 0603 220nF 10% 25V X7R	TDK C1608X7R1E224K080AC
27	14	2	C10,C40	CAP, 0603 150pF 5% 50V NPO	AVX 06035A151JAT2A
28	15	1	C11	CAP, 0603 3.3nF 5% 50V C0G	MURATA GRM1885C1H332JA01D
29	16	6	C14,C17,C18,C27,C28,C38	CAP, 0603 10nF 10% 25V X7R	AVX 06033C103KAT2A
30	17	0	C19	CAP, 0603 1500pF 5% 50V C0G OPTION	MURATA GRM1885C1H152JA01D OPTION
31	18	1	C20	CAP, 0603 47pF 5% 50V NPO	AVX 06035A470JAT2A
32	19	2	C30,C44	CAP, 1210 100uF 20% 10V X5R	TAIYO YUDEN LMK325BJ107MM-T
33	20	1	C31	CAP, 1210 10uF 10% 16V X7R	MURATA GRM32DR71C106KA01
34	21	2	C39,C50	CAP, 0603 100nF 20% 16V X7R	MURATA GRM32ER61A107ME20K
35	22	1	C43	CAP, 0603 220pF 10% 50V X7R	AVX 06035C221KAT2A
36	23	1	C49	CAP, 0603 47nF 10% 25V X7R	AVX 06033C473KAT2A
37	24	4	D1,D2,D3,D4	DIODE, SCHOTTKY 30V, 100mA	CENTRAL SEMI CMDSH-3 TR
38	25	4	D5,D6,D8,D9	LED, 0603 GREEN	WURTH ELEKTRONIK 150060GS75000

	A	B	C	D	E
39	26	1	D7	LED, 0603 RED	WURTH ELEKTRONIK 150060SS75000
40	27	0	D10,D11	DIODE, SCHOTTKY 30V, 100mA OPTION	CENTRAL SEMI CMDSH-3-TR OPTION
41	28	2	D12,D13	DIODE, ULTRA LOW SCHOTTKY RECTIFIER	NXP SEMI. PMEG2005AEL,315
42	29	24	E1,E2,E3,E4,E5,E6,E7,E8,	TURRET	MILL MAX 2501-2-00-80-00-00-07-0
43			E9,E13,E14,E21,E22,E23,		
44			E24,E25,E26,E27,E28,E34,		
45			E35,E36,E37,E38		
46	30	4	JP1,JP2,JP4,JP5	HEADER, SINGLE ROW 3PIN	SAMTEC TMM-103-02-L-S
47	31	6	J1,J2,J3,J4,J5,J6	STUD, TEST PIN	PEM KFH-032-10
48	32	14		NUT, BRASS 10-32	ANY #10-32
49	33	7		LUG RING, #10	KEYSTONE 8205
50	34	7		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
51	35	3	J10,J11,J12	CONN, BNC, 5 PINS	CONNEX 112404
52	36	1	J13	CONN, SOCKET 14PIN DUAL ROW R/A	SULLINSINC. NPPN072FJFN-RC
53	37	1	J14	HEADER, 12PIN 2mm STR DL	FCI 98414-G06-12ULF
54	38	1	J15	HEADER, 14PIN DUAL ROW R/A	MOLEX 87760-1416
55	39	1	J16	HEADER, 4PIN 2mm STR DL	HIROSE DF3A-4P-2DSA
56	40	4	L1,L2,L3,L4	IND, 0.25uH	WURTH ELEKTRONIK 744301025
57	41	1	L5	IND, 68uH	SUMIDA CDRH105RNP-680N
58	42	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE 8834
59	43	8	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8	XSTR, DUAL CHANNEL OptiMOS MOSFET	INFINEON BSG0811ND
60	44	4	Q9,Q10,Q11,Q28	XSTR, PNP GENERAL PURPOSE	DIODES INC. MMST3906-7-F
61	45	0	Q12,Q13,Q14,Q15,Q16,Q17,	XSTR, POWER MOSFET OPTION	OPTION
62			Q18,Q27		
63	46	3	Q20,Q29,Q30	XSTR, P-CHANNEL DMOS FET	DIODES INC. DMP3130L-7
64	47	4	Q21,Q22,Q25,Q26	XSTR, N-CHANNEL DMOS FET	FAIRCHILD 2N7002A
65	48	2	Q23,Q24	XSTR, MOSFET, N-CHANNEL 30V	VISHAY SUD50N04-8M8P
66	49	2	R1,R129	RES, 2010 0.002 OHMS 1% 1W	VISHAY WSL20102L000FEA
67	50	2	R2,R60	RES, 0603 1 OHMS 1% 1/10W	VISHAY CRCW06031R00FNEA
68	51	25	R3,R4,R15,R19,R39,R40,	RES, 0603 0 OHMS JUMPER	VISHAY CRCW06030000Z0EA
69			R42,R43,R45,R46,R53,R91,		
70			R109,R113,R114,R116,R117,		
71			R127,R132,R137,R140,R147,		
72			R148,R149,R156		
73	52	0	R5,R16,R17,R24,R25,R26,	RES, 0603 OPTION	OPTION
74			R27,R28,R31,R32,R35,R36,		
75			R37,R38,R51,R56,R57,R59,		
76			R82,R83,R84,R87,R110,		

	A	B	C	D	E
77			R111,R112,R115,R118,R119,		
78			R120,R121,R122,R126,R133,		
79			R134,R136,R138,R139,R141,		
80			R142,R145,R146,R151,R152,		
81			R154		
82	53	14	R6,R7,R8,R10,R29,R30,R33,	RES, 0603 10K OHMS 5% 1/10W	VISHAY CRCW060310K0JNEA
83			R34,R49,R50,R98,R123,		
84			R124,R131		
85	54	4	R9,R11,R12,R13	RES, 0603 2K OHMS 5% 1/10W	VISHAY CRCW06032K00JNEA
86	55	4	R14,R20,R135,R143	RES, 0603 715 OHMS 1% 1/10W	VISHAY CRCW0603715RFKEA
87	56	2	R18,R21	RES, 0603 10 OHMS 1% 1/10W	VISHAY CRCW060310R0FKEA
88	57	2	R22,R108	RES, 0603 30.1k OHMS 1% 1/10W	VISHAY CRCW060330K1FKEA
89	58	1	R23	RES, 0603 1.96k OHMS 1% 1/10W	VISHAY CRCW06031K96FKEA
90	59	6	R41,R44,R47,R48,R88,R90	RES, 2010 0 OHM JUMPER	VISHAY CRCW20100000Z0EF
91	60	2	R69,R70	RES, 0603 10 OHMS 5% 1/10W	VISHAY CRCW060310R0JNEA
92	61	4	R79,R80,R125,R130	RES, 0603 200 OHMS 5% 1/10W	VISHAY CRCW0603200RJNEA
93	62	1	R81	RES, 0603 127 OHMS 1% 1/10W	VISHAY CRCW0603127RFKEA
94	63	0	R85,R86,R101	RES, 2512 OPTION	OPTION
95	64	1	R89	RES, 0603 2 OHMS 5% 1/10W	VISHAY CRCW06032R00JNED
96	65	1	R92	RES, 0603 3.3 OHMS 1% 1/10W	VISHAY CRCW06033R30FNEA
97	66	1	R93	RES, 0603 154k OHMS 1% 1/10W	VISHAY CRCW0603154KFKEA
98	67	1	R94	RES, 0603 1M OHMS 5% 1/10W	VISHAY CRCW06031M00JNEA
99	68	3	R95,R96,R107	RES, 0603 20K OHMS 5% 1/10W	VISHAY CRCW060320K0JNEA
100	69	1	R97	RES, 0603 681K OHMS 1% 1/10W	VISHAY CRCW0603681KFEA
101	70	1	R99	RES, 0603 301 OHMS 1% 1/10W	VISHAY CRCW0603301RFKEA
102	71	1	R100	RES, 0603 82.5 OHMS 5% 1/10W	VISHAY CRCW060382R5FKEA
103	72	1	R102	RES, 2512 0.01 OHMS 1% 1W	VISHAY WSL2512R0100FEA
104	73	1	R103	RES, VARIABLE 5K	BOURNS 3386P-1-502-LF
105	74	1	R104	RES, 0603 1k OHMS 1% 1/10W	VISHAY CRCW06031K00FKEA
106	75	1	R105	RES, 0603 118K OHM 1% 1/10W	VISHAY CRCW0603118KFKEA
107	76	1	R106	RES, 0603 80.6k OHMS 1% 1/10W	VISHAY CRCW060380K6FKEA
108	77	2	R128,R150	RES, 0603 4.99K OHMS 1% 1/10W	VISHAY CRCW06034K99FKEA
109	78	2	R144,R155	RES, 0603 15.8K OHMS 1% 1/10W	VISHAY CRCW060315K8FKEA
110	79	1	R153	RES, 0603 3.57k OHMS 1% 1/10W	VISHAY CRCW06033K57FKEA
111	80	2	SW1,SW2	SWITCH, SUBMINATURE SLIDE	C&K JS202011CQN
112	81	2	U1,U2	IC,	LINEAR TECH. LTC3884EUK
113	82	1	U4	IC, SYNCHRONOUS STEP-DOWN CONVERTER	LINEAR TECH. LTC3630EMSE
114	83	1	U5	IC, LTC6992IS6-1	LINEAR TECH. LTC6992IS6-1

	A	B	C	D	E
115	84	1	U6	IC, SINGLE OP AMP	LINEAR TECH. LT1803IS5
116	85	1	U7	IC, 2K EEPROM	MICROCHIP 24LC024-I/ST
117	86	4	XJP1,XJP2,XJP4,XJP5	SHUNT	SAMTEC 2SN-BK-G