

	A	B	C	D	E
1	Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
2	1	2	C1,C85	CAP, 56uF 20% 63V ELEC	SUNCON 63HVP56M
3	2	3	C3,C9,C23	CAP, 0603 0.1uF 10% 100V X7R	MURATA GRM188R72A104KA35D
4	3	4	C4,C5,C27,C33	CAP, 0603 10nF 10% 100V X7R	MURATA GRM188R72A103KA01D
5	4	1	C6	CAP, 0603 1nF 10% 100V X7R	AVX 06031C102KAT2A
6	5	5	C7,C8,C21,C22,C74	CAP, 1210 2.2uF 10% 100V X7R	MURATA GRM32ER72A225KA35L
7	6	8	C10,C11,C12,C24,C25,C26,	CAP, 1210 22uF 20% 16V X7R	AVX 1210YC226MAT2A
8			C88,C93		
9	7	2	C13,C28	CAP, 0603 1nF 10% 16V X7R	AVX 0603YC102KAT2A
10	8	4	C14,C15,C29,C30	CAP, 150uF 16V ELEC. OS-CON	PANASONIC 16SVP150M
11	9	0	C16,C17,C31,C32	CAP, 7343 OPTION	OPTION
12	10	2	C18,C34	CAP, 0603 4.7nF 10% 50V X7R	AVX 06035C472KAT2A
13	11	0	C19,C35,C73	CAP, 0603 OPTION	OPTION
14	12	2	C20,C36	CAP, 0603 100pF 5% 50V C0G	AVX 06035A101JAT2A
15	13	2	C37,C38	CAP, 0603 2.2uF 10% 16V X5R	AVX 0603YD225KAT2A
16	14	1	C39	CAP, 0603 4.7uF 10% 10V X5R	AVX 0603ZD475KAT2A
17	15	1	C40	CAP, 0603 4.7uF 10% 16V X5R	MURATA GRM188R61C475KAAJD
18	16	2	C70,C103	CAP, 0805 2.2uF 10% 16V X7R	AVX 0805YC225KAT2A
19	17	0	C71,C77	CAP, 0805 OPTION	OPTION
20	18	1	C72	CAP, 0603 47nF 10% 25V X7R	AVX 06033C473KAT2A
21	19	0	C75	CAP, 1210 OPTION	OPTION
22	20	1	C76	CAP, 0603 0.1uF 10% 25V X7R	AVX 06033C104KAT2A
23	21	1	C78	CAP, 0805 220nF 10% 100V X7R	MURATA GRM21AR72A224KAC5L
24	22	2	C79,C80	CAP, 1210 100uF 20% 10V X5R	MURATA GRM32ER61A107ME20L
25	23	1	C81	CAP, 0603 220pF 10% 50V X7R	AVX 06035C221KAT2A
26	24	2	C82,C83	CAP, 0603 10nF 10% 25V X7R	AVX 06033C103KAT2A
27	25	2	C84,C101	CAP, 0603 100nF 20% 16V X7R	AVX 0603YC104MAT2A
28	26	0	C86,C87	CAP, ELEC OPTION	OPTION
29	27	2	C94,C95	CAP, 1812 10uF 20% 100V X7S	TDK CKG45NX7S2A106M500JH
30	28	2	C96,C97	CAP, 1206 2.2uF 10% 100V X7R	MURATA GRM31CR72A225KA73L
31	29	1	C100	CAP, 0603 150pF 5% 50V NPO	AVX 06035A151JAT2A
32	30	1	C102	CAP, 0603 1uF 20% 25V X5R	AVX 06033D105MAT2A
33	31	2	D1,D2	DIODE, SCHOTTKY 100V, 1A	DIODES/ZETEX, DFLS1100-7
34	32	4	D5,D6,D13,D14	LED, 0603 GREEN	OSRAM LG L29K-G2J1-24-Z
35	33	1	D7	LED, 0603 RED	OSRAM LS L29K-H1J2-1-Z
36	34	0	D8	DIODE, ZENER OPTION	OPTION
37	35	0	D9,D12	DIODE, OPTION	OPTION
38	36	26	E1,E2,E3,E4,E5,E6,E7,E8,E11,	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0

	A	B	C	D	E
39			E12,E14,E16,E18,E20,E21,		
40			E22,E23,E24,E25,E26,E27,		
41			E29,E30,E32,E35,E36		
42	37	5	JP1,JP2,JP3,JP5,JP6	HEADER, 3 PIN 2mm	SULLINS NRPN031PAEN-RC
43	38	6	J1,J2,J3,J4,J5,J6	STUD, TESTPIN	PEM KFH-032-10
44	39	2	J7,J12	CONN, BNC,5 PINS	CONNEX 112404
45	40	1	J9	HEADER, 14PIN DUAL ROW R/A	MOLEX 87760-1416
46	41	1	J10	CONN, SOCKET 14PIN DUAL ROW R/A	SULLINSINC. NPPN072FJFN-RC
47	42	1	J11	HEADER, 12PIN 2mm STR DL	FCI 98414-G06-12ULF
48	43	10		LUG RING, #10	KEYSTONE 8205
49	44	2	L1,L2	IND, 8.6uH	WURTH ELEKTRONIK 7443630860
50	45	1	L5	IND, 68uH	SUMIDA CDRH105RNP-680NC
51	46	0	L1,L2	IND, 6.8uH OPTION	COILCRAFT SER2915H-682KL OPTION
52		0	L1,L2 - ALTERNATE	IND, 6.8uH OPTION	COILCRAFT SER2918H-682KL OPTION
53	47	4	MH1,MH2,MH3,MH4	STANDOFF, SNAP ON	KEYSTONE_8831
54	48	20		NUT, BRASS 10-32	ANY #10-32
55	49	2	Q1,Q6	XSTR, MOSFET N-CH 60V 25A 5 PIN LPAK	RENESAS RJK0651DPB
56	50	0	Q2,Q4,Q5,Q8	XSTR, OPTION	OPTION
57	51	2	Q3,Q7	XSTR, MOSFET N-CH 60V 45A 5 PIN LPAK	RENESAS RJK0653DPB
58	52	2	Q9,Q10	XSTR, PNP GENERAL PURPOSE SOT-323	DIODES INC. MMST3906-7-F
59	53	1	Q19	XSTR, MOSFET N-CH 30V 30A 5 PIN LPAK	RENESAS RJK0305DPB-00#J0
60	54	1	Q20	XSTR, MOSFET P-CH 20V 5.2A SOT-23	VISHAY SI2365EDS-T1-GE3
61	55	4	Q22,Q23,Q28,Q29	XSTR, MOSFET N-CH 60V 115mA SOT23	FAIRCHILD 2N7002A
62	56	0	Q27	XSTR, N-CHANNEL DMOS FET OPTION	OPTION
63	57	2	R2,R122	RES, 2512 0.006 OHMS 1% 1W	PANASONIC ERJ-M1WSF6MU
64	58	2	R3,R4	RES, 0603 1k OHMS 5% 1/10W	VISHAY CRCW06031K00JNEA
65	59	0	R5,R6,R7,R8	RES, 2512 0 OHM JUMPER OPTION	RN5326 2512 TEPRO NAKOMA OPTION
66	60	4	R9,R12,R30,R38	RES, 0603 2 OHMS 5% 1/10W	VISHAY CRCW06032R00JNEA
67	61	12	R10,R11,R13,R15,R16,R18,	RES, 0603 10k OHMS 5% 1/10W	VISHAY CRCW060310K0JNEA
68			R23,R25,R28,R89,R112,		
69			R113		
70	62	2	R14,R37	RES, 2010 3m OHMS 1% 1/2W	VISHAY WSL20103L000FEA
71	63	16	R17,R21,R22,R27,R43,R44,	RES, 0603 0 OHMS JUMPER	VISHAY CRCW06030000Z0EA
72			R45,R96,R98,R106,R109,		
73			R128,R129,R132,R168,R174		
74	64	0	R19,R20,R29,R31,R32,R33,	RES, 0603 OPTION	OPTION
75			R34,R35,R36,R39,R40,R41,		
76			R42,R46,R47,R48,R49,R97,		

	A	B	C	D	E
77			R100,R101,R102,R103,R104,		
78			R105,R108,R110,R111,R116,		
79			R117,R118,R121,R144,R145,		
80			R147,R148,R169,R173		
81	65	5	R24,R26,R50,R51,R155	RES, 0603 100 OHMS 5% 1/10W	VISHAY CRCW0603100RJNEA
82	66	4	R87,R88,R171,R172	RES, 0603 200 OHMS 5% 1/10W	VISHAY CRCW0603200RJNEA
83	67	0	R90,R92	RES, 0805 OPTION	OPTION
84	68	1	R91	RES, 2010 0.01 OHMS 1% 1/2W	VISHAY WSL2010R0100FEA
85	69	1	R93	RES, 0603 127 OHMS 1% 1/10W	VISHAY CRCW0603127RFKEA
86	70	1	R99	RES, 0603 220k OHMS 5% 1/10W	VISHAY CRCW0603220KJNEA
87	71	0	R107	RES, 1206 OPTION	OPTION
88	72	2	R114,R115	RES, 0603 10 OHMS 5% 1/10W	VISHAY CRCW060310R0JNEA
89	73	2	R119,R120	RES, 0603 4.99K OHMS 1% 1/10W	VISHAY CRCW06034K99FKEA
90	74	2	R124,R125	RES, 2512 0 OHMS JUMPER	VISHAY CRCW25120000Z0EG
91	75	1	R146	RES, 0805 4.7 OHMS 1% 0.125W	VISHAY CRCW08054R70FKEA
92	76	1	R151	RES, 0603 1M OHMS 5% 1/10W	VISHAY CRCW06031M00JNEA
93	77	1	R152	RES, 0603 681K OHMS 1% 1/10W	VISHAY CRCW0603681KFKEA
94	78	1	R153	RES, 0603 3.3 OHMS 1% 1/10W	VISHAY CRCW06033R30FKEA
95	79	1	R154	RES, 0603 82.5 OHMS 1% 1/10W	VISHAY CRCW060382R5FKEA
96	80	1	R157	RES, 0603 2 OHMS 5% 1/10W	VISHAY CRCW06032R00JNEA
97	81	1	R158	RES, 0603 27.4k OHMS 1% 1/10W	VISHAY CRCW060327K4FKEA
98	82	1	R159	RES, 0603 226K OHMS 1% 1/10W	VISHAY CRCW0603226KFKEA
99	83	1	R160	RES, VARIABLE 5K	BOURNS 3386P-1-502-LF
100	84	1	R161	RES, 0603 20K OHMS 5% 1/10W	VISHAY CRCW060320K0JNEA
101	85	1	R162	RES, 1206 0 OHMS JUMPER	VISHAY CRCW12060000Z0EA
102	86	0	R163	RES, 1206 0 OHMS JUMPER OPTION	VISHAY CRCW12060000Z0EA OPTION
103	87	1	R170	RES, 0603 340 OHMS 1% 1/10W	VISHAY CRCW0603340RFKEA
104	88	2	SW1,SW2	SWITCH, SUBMINATURE SLIDE	C&K JS202011CQN
105	89	1	U1	ASSY, IC, WIDE INPUT AND OUTPUT DC/DC CONVERTER	LINEAS TECH. LTC3886IUKG#10E2-1PBF-ES
106	90	1	U3	IC, SYNCHRONOUS STEP-DOWN CONVERTER	LINEAR TECH. LTC3630EMSE#PBF
107	91	1	U4	IC, 24LC05-I/ST	MICROCHIP 24LC025-I/ST
108	92	1	U5	IC, LTC6992	LINEAR TECH. LTC6992IS6-1
109	93	1	U6	IC, SINGLE OP AMP	LINEAR TECH. LT1803IS5
110	94	10		WASHER, #10 TIN PLATED BRASS	ANY #10 EXT BZ TN
111	95	5	XJP1,XJP2,XJP3,XJP5,XJP6	SHUNT	SAMTEC 2SN-BK-G