

Reference	Item Number	Schem	Board	Total	On Reference	Designator	Sum	Part Number	Description	Supplier	Cost Ea	Details	Cost Each
C1	1	3	T-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C2	2	4	T-3	4	C2, C3, C5, C6	TMC1VA224KLRH			CAPACITOR, TANTE .22uF 35V, 3216, 10%	GARRETT K	0.36		0.36
C3	2	4	T-3	4	C2, C3, C5, C6	TMC1VA224KLRH			CAPACITOR, TANTE .22uF 35V, 3216, 10%	GARRETT K	0.36		0.36
C4	3	4	T-3	5	C4, C113-C116	TAJA104K050R			CAPACITOR, TANTE .1uF, 50V, 3216, 10%	GARRETT K	0.04		0.04
C5	2	4	T-3	4	C2, C3, C5, C6	TMC1VA224KLRH			CAPACITOR, TANTE .22uF 35V, 3216, 10%	GARRETT K	0.36		0.36
C6	2	4	T-3	4	C2, C3, C5, C6	TMC1VA224KLRH			CAPACITOR, TANTE .22uF 35V, 3216, 10%	GARRETT K	0.36		0.36
C7	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C8	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C9	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C10	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C11	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C12	1	5	B-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C13	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C14	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C15	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C16	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C17	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C18	1	5	T-3	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C19	1	5	B-no d	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C20	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C21	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C22	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C23	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C24	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C25	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C26	1	5	B-1	36	C1, C7-C26, C63-C68, C109	PCC1840CT-ND			CAPACITOR, CERAMIC, 0.1uF, 50V 0805 X7R 10%	DIGIKEY	0.16		0.16
C27	4	5	B-1	6	C27, C30, C69, C70, C109,	0805YG105ZAT2A			CAPACITOR, CERAMIC 1uF, 16V, 0805, Y5V	GARRETT A	0.15		0.15
C28	5	5	T-3	1	C28	478-1668-1-ND			CAPACITOR, TANTE, 33uF, 16V, 3528	GARRETT	0.11		0.11
C29	6	5	T-3	4	C29, C32, C71, C111	TAJB106K016R			CAPACITOR, TANTE 10uF 16V, 3528, 10%	GARRETT S	0.43		0.43
C30	4	5	B-3	6	C27, C30, C69, C70, C109,	0805YG105ZAT2A			CAPACITOR, CERAMIC 1uF, 16V, 0805, Y5V	GARRETT A	0.15		0.15
C31	9	5	T-1	3	C31, C72, C112	TAJE107K020R			CAPACITOR, TANTE, 100uF, 20V, 7343, 10%	GARRETT K	1.29		1.29
C32	6	5	T-1	4	C29, C32, C71, C111	TAJB106K016R			CAPACITOR, TANTE 10uF 16V, 3528, 10%	GARRETT S	0.43		0.43
C33	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C34	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C35	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C36	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C37	7	11	B-3	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C38	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C39	7	11	B-3	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C40	7	11	B-1	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C41	7	11	B-3	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C42	7	11	B-3	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C43	7	11	B-3	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C44	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C45	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C46	7	11	B-2	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C47	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C48	7	11	B-2	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C49	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C50	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C51	7	11	B-4	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C52	7	11	B-2	38	C33-C52, C73-C90	08051A1R0CAT2A			CAPACITOR, CERAMIC, 1pF, 100V, 0805	GARRETT A	0.08		0.08
C53	8	11	B-3	19	C53-C62, C91-C99	08051C103KAT2A			CAPACITOR, CERAMIC 0.01uF, 100V, 0805, X7R	GARRETT A	0.11		0.11
C54	8	11	B-2	19	C53-C62, C91-C99	08051C103KAT2A			CAPACITOR, CERAMIC 0.01uF, 100V, 0805, X7R	GARRETT A	0.11		0.11
C55	8	11	B-2	19	C53-C62, C91-C99	08051C103KAT2A			CAPACITOR, CERAMIC 0.01uF, 100V, 0805, X7R	GARRETT A	0.11		0.11
C56	8	11	B-2	19	C53-C62, C91-C99	08051C103KAT2A			CAPACITOR, CERAMIC 0.01uF, 100V, 0805, X7R	GARRETT A	0.11		0.11



C114	3	4	B-2	5	C4, C113-C116	TAJA104K050R	CAPACITOR, TANTE .1uF, 50V, 3216, 10%	GARRETT K	0.04		0.04
C115	3	4	B-2	5	C4, C113-C116	TAJA104K050R	CAPACITOR, TANTE .1uF, 50V, 3216, 10%	GARRETT K	0.04		0.04
C116	3	4	B-2	5	C4, C113-C116	TAJA104K050R	CAPACITOR, TANTE .1uF, 50V, 3216, 10%	GARRETT K	0.04		0.04
C118	10	5	B-1	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C119	10	5	B-3	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C120	10	5	T-1	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C121	10	5	T-1	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C124	11	15	T-3	1	C124	0603YC104KAT2A	CAPACITOR, CERAMIC 0.1uF, 16V, 0603	GARRETT	0.04		0.04
C125	12	15	T-3	2	C126, C125	T494X686M025AS	CAPACITOR, TANTE 68uF, 25V, 7343			KEMET	
C126	12	15	T-3	2	C126, C125	T494X686M025AS	CAPACITOR, TANTE 68uF, 25V, 7343			KEMET	
C127	13	15	T-1	3	C127, C128, C129	TPSD107K010R0100	CAPACITOR, TANTE 100uF, 10V, 7343	GARRETT	0.04		0.04
C128	13	15	T-1	3	C127, C128, C129	TPSD107K010R0100	CAPACITOR, TANTE 100uF, 10V, 7343	GARRETT	0.04		0.04
C129	13	15	T-1	3	C127, C128, C129	TPSD107K010R0100	CAPACITOR, TANTE 100uF, 10V, 7343	GARRETT	0.04		0.04
C130	14	15	B-3	1	C130	GMC31X7R106K10NT	CAPACITOR, CERAMIC 10uF, 10V, 1206			CALCHIP	
C131	15	15	T-3	1	C131	0603C393KAT	CAPACITOR, CERAMIC 0.039uF, 50V, 0603				
C132	10	15	B-3	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C133	10	15	B-3	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C134	10	15	B-3	7	C118, C119, C120, C121, 11	TPSE337K006R0100	CAPACITOR, TANTE 330uF, 6.3V, 7343	GARRETT	0.04		0.04
C135	16	15	B-1	1	C135	0603C473KAT2A	CAPACITOR, CERAMIC 0.047uF, 16V, 0603	GARRETT	0.04		0.04
CR1	17	5	T-1	1	CR1	MBR0520LCT-ND	DIODE, SCHOTTKY .5A 20V SOD-12	DIGIKEY	0.42		0.42
IC2	18	15	B-1	1	IC2	BSS138CT-ND	MOSFET N-CH 50V 3.5OHM SOT-23	DIGIKEY	0.27		0.27
IC3	19	12	T-2	1	IC3	CYPRESS	ASRAM	NOT POPUL	N/A		N/A
IC5	20	3	T-1	1	IC5	TC74HC244AFW-ND	BUS BUFFER/TRISTATE OCTAL	DIGIKEY	0.64		0.64
IC6	21	1	T-1	2	IC6, IC7	V1000BGA560	VIRTEX 1000 FPGA	XILINX	DONATION		DONATION
IC7	21	2	T-2	2	IC6, IC7	V1000BGA560	VIRTEX 1000 FPGA	XILINX	DONATION		DONATION
IC8	22	10	T-1	2	IC8, IC9	NC7S08M5CT-ND	AND GATE BUFFER	DIGIKEY	0.70		0.70
IC9	22	10	T-1	2	IC8, IC9	NC7S08M5CT-ND	AND GATE BUFFER	DIGIKEY	0.70		0.70
IC10	23	5	T-1	1	IC10	LT1764AEQ-2.5-ND	IC REG LDO 3A 2.5V DD5	DIGIKEY	7.13		7.13
IC11	24	15	T-3	1	IC11	TPS54616PWP	BUCK SWITCHING POWER SUPPLY	Arrow	7.20		7.20
J1	25	7	T-3	2	J1, J2	H7096-ND	96 PIN CONNECTOR MALE	DIGIKEY	5.20		
J2	25	7	T-4	2	J1, J2	H7096-ND	96 PIN CONNECTOR MALE	DIGIKEY	5.20		
J3	26	6	T-4	2	J3, J4	40 PIN CONNECTORS	40 PIN RIGHT ANGLE CONNECTORS	DIGILENT	0.75		0.75
J4	26	6	T-2	2	J3, J4	40 PIN CONNECTORS	40 PIN RIGHT ANGLE CONNECTORS	DIGILENT	0.75		0.75
J5	27	8	T-2	2	J5, J6	FX8C-140S-SV / H2337-ND	140 PIN EXPANSION CONN.	DIGIKEY	3.10		3.10
J6	27	8	T-1	2	J5, J6	FX8C-140S-SV / H2337-ND	140 PIN EXPANSION CONN.	DIGIKEY	3.10		3.10
J7	28	3	T-1	1	J7	A2102-ND	25 PIN CONNECTOR D-FEMALE	DIGIKEY	3.42		3.42
J8	29		T-3	1	J8	A2096-ND	9 PIN CONNECTOR D-MALE	DIGIKEY	2.92		
J10	30	10	T-2	4	J10-J12, J16	PH1 SINGLE	15 PIN HDRS 2.54MM(1/10IN)	ON-SHORE	0.07		0.07
J11	30	10	T-2	4	J10-J12, J16	PH1 SINGLE	15 PIN HDRS 2.54MM(1/10IN)	ON-SHORE	0.07		0.07
J12	30	10	T-4	4	J10-J12, J16	PH1 SINGLE	15 PIN HDRS 2.54MM(1/10IN)	ON-SHORE	0.07		0.07
J13	31	10	T-3	2	J13, J14	PH2 DOUBLE	30 PIN HDRS 2.54MM(1/10IN) 2ROWS@15EACH		0.15		0.15
J14	31	10	T-4	2	J13, J14	PH2 DOUBLE	30 PIN HDRS 2.54MM(1/10IN) 2ROWS@15EACH		0.15		0.15
J15	32	5	T-3	1	J15	CP-002A-ND	POWER PLUG JACK	DIGIKEY	0.34		0.34
J16	30	10	T-2	4	J10-J12, J16	PH1 SINGLE	15 PIN HDRS 2.54MM(1/10IN)	ON-SHORE	0.07		0.07
L1	54	15	T-3		L1	2961666671	FAIR-RITE FERRITE BEAD	FAIR-RITE			
L2	55	15	T-3		L2	D03316P-332HCB	COILCRAFT COIL 3.2uH	COILCRAFT			
LD1	33	4	T-2	3	LD1-LD3	SML-210MT	LED, GREEN W/REFLECTOR	GARRETT R	0.23		0.23
LD2	33	4	T-2	3	LD1-LD3	SML-210MT	LED, GREEN W/REFLECTOR	GARRETT R	0.23		0.23
LD3	33	4	T-2	3	LD1-LD3	SML-210MT	LED, GREEN W/REFLECTOR	GARRETT R	0.23		0.23
LD4	34	4	T-2	3	LD4, LD5, LD11	SML-210LT	LED, RED W/REFLECTOR	GARRETT R	0.23		0.23
LD5	34	4	T-2	3	LD4, LD5, LD11	SML-210LT	LED, RED W/REFLECTOR	GARRETT R	0.23		0.23
LD6	35	4	T-2	2	LD6, LD7	SML-210YT	LED, YELLOW W/REFLECTOR	GARRETT R	0.23		0.23



R48	43	4	T-2	10	R41-R49, R77	MCR10J-0805	RES, 80, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	go garrett get 82.5 ohm	0.06
R49	43	4	T-2	10	R41-R49, R77	MCR10J-0805	RES, 80, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	go garrett get 82.5 ohm	0.06
R50	44	10	T-1	6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R51	44	3	T-4	6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R52	44	3	B-3	6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R53	44			6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R54	45	9	T-4	1	R54	RK73H2A3300F	RES, 330, 0805, 1/8W, 1%, 125MW	GARRETT K	0.07		0.07
R55	41	9	T-3	6	R34-R36, R55, R56, R76	MCR10J-0805	RES, 4.7k, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	Avail at EP 20 on hand	0.06
R56	41	9	T-4	6	R34-R36, R55, R56, R76	MCR10J-0805	RES, 4.7k, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	Avail at EP 20 on hand	0.06
R57	40	10	T-2	19	R18-R33, R57, R58, R75	MCR10J-0805	RES, 100, 0805, 1/8W, 1%, 125MW	GARRETT R	0.09	Avail at EP 20 on hand	0.09
R58	40	10	T-4	19	R18-R33, R57, R58, R75	MCR10J-0805	RES, 100, 0805, 1/8W, 1%, 125MW	GARRETT R	0.09	Avail at EP 20 on hand	0.09
R59	46	3	T-1	4	R59-R62	RC2012F1003C	RES, 100k, 0805, 1/8W, 1%, 125MW	GARRETT S	0.07		0.07
R60	46	10	T-4	4	R59-R62	RC2012F1003C	RES, 100k, 0805, 1/8W, 1%, 125MW	GARRETT S	0.07		0.07
R61	46	10	T-4	4	R59-R62	RC2012F1003C	RES, 100k, 0805, 1/8W, 1%, 125MW	GARRETT S	0.07		0.07
R62	46	10	T-4	4	R59-R62	RC2012F1003C	RES, 100k, 0805, 1/8W, 1%, 125MW	GARRETT S	0.07		0.07
R63	44			6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R64	44	7	T-4	6	R50-R53, R63, R64	311-22.0CCT-ND	RES, 22, 0805, 1/8W, 1%	DIGIKEY	0.05		0.05
R65	42	3	B-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R66	42	12	B-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R67	42	12	B-3	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R68	42	12	B-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R69	42	12	B-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R70	42	12	B-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R71	42	4	T-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R72	42	4	T-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R73	42	4	T-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R74	42	4	T-4	14	R37-R40, R65-R74	311-10.0KCCT-ND	RES, 10k, 0805, 1/8W, 1%, 125MW	DIGIKEY	0.10		0.10
R75	41	15	T-3	19	R18-R33, R57, R58, R75	MCR10J-0805	RES, 100, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	Avail at EP 20 on hand	0.06
R76	41	15	B-1	6	R34-R36, R55, R56, R76	MCR10J-0805	RES, 4.7k, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	Avail at EP 20 on hand	0.06
R77	43			10	R41-R49, R77	MCR10J-0805	RES, 80, 0805, 1/8W, 1%, 125MW	GARRETT R	0.06	go garrett get 82.5 ohm	0.06
SPROM1	47	9	T-3	3	SPROM1-SPROM3	XC18V04VQ44	SPROM	XILINX	DONATION		DONATION
SPROM2	47	9	T-4	3	SPROM1-SPROM3	XC18V04VQ44	SPROM	XILINX	DONATION		DONATION
SPROM3	47	9	T-4	3	SPROM1-SPROM3	XC18V04VQ44	SPROM	XILINX	DONATION		DONATION
SW1	48	3	T-1	2	SW1, SW7	EG1903-ND	SWITCH SPDT	DIGIKEY	0.71		0.71
SW2	49	4	T-4	5	SW2-SW6	EG2526CT-ND	PUSH BUTTON	DIGIKEY	0.45		0.45
SW3	49	4	T-4	5	SW2-SW6	EG2526CT-ND	PUSH BUTTON	DIGIKEY	0.45		0.45
SW4	49	4	T-4	5	SW2-SW6	EG2526CT-ND	PUSH BUTTON	DIGIKEY	0.45		0.45
SW5	49	4	T-4	5	SW2-SW6	EG2526CT-ND	PUSH BUTTON	DIGIKEY	0.45		0.45
SW6	49	4	T-3	5	SW2-SW6	EG2526CT-ND	PUSH BUTTON	DIGIKEY	0.45		0.45
SW7	48	5	T-1	2	SW1, SW7	EG1903-ND	SWITCH SPDT	DIGIKEY	0.71		0.71
U3	50	4	T-3	1	U3	296-12733-1-ND	SN65C3238 232 DRIVER/RXVR 28-SSO	DIGIKEY	2.50		2.50
U4	51	4	T-4	1	U4	SN74AHC14DBR	IC HEX SCHMITT TRGR INVERTER 14SSOP			Rx from TI as samples	
	52			7	JUMPERS - NO REF NUMBER		JUMPERS	LOCAL PAR	0.01		0.01
	53			4	RUBBER FEET - NO REF N	SOF-15111-ND	ADHESIVE RUBBER FOOT	LOCAL PAR	0.05		0.05