

**SCA C84-500 Bill of Material**

**Rev 1**

Item	Qty	Ref	Value	Marking	Description	Mfg	Mfg Part Number
1	2	C8, C9	22pF	220J	C0G Ceramic	Kemet	C315C220J2G5TA
2	4	C1, C14, C17, C25	100pF	101J	C0G Ceramic	Kemet	C315C101J2G5TA
3	13	C12, C19, C21, C26, C28, C41 - C46, C101, C118	0.1uF	104K	X7R Ceramic	Kemet	C320C104K5R5TA
4	2	C10, C11	1uF/50V	105	Polyester Film	Panasonic	ECQ-V1H105JL
5	2	C5, C6	1uF/63V	1uF 63V	Polypropylene	BC	222.241.671.005
6	2	C34, C38	22uF/35V	22.635	Tantalum	Kemet	T356K226K035AT
7	2	C23, C30	47uF/25V NP	47uF 25V	Non-Polarized Electrolytic	Nichicon	UVP1E470MED
8	4	C20, C22, C27, C29	100uF/35V	100uF 35V	Aluminum Electrolytic	Panasonic	EEU-FC1V101
9	4	C4, C7, C39, C40	100uF/63V	100uF 63V	Aluminum Electrolytic	Panasonic	EEU-FC1J101L
10	1	C24	1000uF/ 50V	1000uF 50V	Aluminum Electrolytic	Panasonic	EEU-FM1H102
11	2	C102, C103	1000pF/2KV	1000pF/2KV	Suppression Cap	Vishay	S102M33Z5UR63L6R
12	15	D1 - D14, D19	1N4002	1N4002	Rectifier Diode	Fairchild	1N4002
13	1	L101	4.7uH	4.7uH	Shielded Inductor	Bourns	CM322522-4R7JL
14	4	L1 - L4	1000pF	C102	Filter	Bourns	EMH102T-RC
15	2	Q1, Q2	300B	300B	NPN Matched Quad	THAT	THAT 300B
16	2	Q3, Q7	BC560	BC560	PNP Bipolar	Fairchild	BC560
17	2	Q4, Q8	BC550	BC550	NPN Bipolar	Fairchild	BC550
18	2	Q5, Q9	MJE182	MJE182	NPN Power	Fairchild	MJE182
19	2	Q6, Q10	MJE172	MJE172	PNP Power	Fairchild	MJE172
20	1	Q11	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06
21	1	R19	1R0	Brown-Black-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1R0
22	5	R20, R46, R47, R58, R59	1R8	Brown-Gray-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1R8
23	1	R21	3R3	Orange-Orange-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-3R3
24	2	R5, R6	4R7	Yellow-Violet-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-4R7
25	1	R10	5R6	Green-Blue-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-5R6
26	3	R11, R102-R103	10R0	Brown-Black-Black-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10R0
27	1	R12	17R8	Brown-Violet-Gray-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-17R8
28	2	R48, R60	24R9	Red-Yellow-W hite-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-24R9
29	1	R13	32R4	Orange-Red-Yellow-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-32R4
30	1	R14	57R6	Green-Violet-Blue-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-57R6
31	2	R43, R55	100	Brown-Black-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-100R
32	1	R15	105	Brown-Black-Green-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-105R
33	1	R71	150	Brown-Green-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-150R
34	1	R16	187	Brown-Gray-Violet-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-187R
35	1	R17	348	Orange-Yellow-Gray-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-348R
36	1	R18	680	Blue-Gray-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-680R
37	2	R8, R9	750	55D 750 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-750-B-B
38	2	R22, R23	1K00	55D 1K B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-1K-B-B
39	2	R25, R28	1K58	55D 1K58 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-1K58-B-B
40	2	R31, R32	2K00	Red-Black-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K00
41	1	R24	2K20	Red-Red-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K20
42	1	R26	2K43	Red-Yellow-Orange-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K43
43	3	R35, R36, R38	2K49	Red-Yellow-W hite-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K49
44	4	R44, R45, R56, R57	4K75	Yellow-Violet-Green-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-4K75
45	2	R3, R4	6K65	55D 6K65 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-6K65-B-B
46	1	R78	7K50	Yellow-Green-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-7K50
47	4	R27, R63, R64, R72	10K0	Brown-Black-Black-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10K0
48	4	R40, R41, R52, R53	10K0	55D 10K0 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-10K-B-B
49	1	R101	15K	Brown-Green-Orange-Gold	Metal Film Resistor 1/4W	Yageo	CFR-25JB-15K
50	4	R39, R49, R54, R61	20K0	55D 20K0 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-20K-B-B
51	5	R29, R30, R33, R73, R74	100K	Brown-Black-Black-Orange-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-100K
52	2	R75, R76	2M20	Red-Red-Black-Yellow-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2M20
53	1	R37	10K	91A1A-B24-D15L	Panel Mount Potentiometer	Bourns	91A1A-B24-D15L
54	1	SW1		71BDF30-02-1-AJS	Rotary Switch	Grayhill	71BDF30-02-1-AJS
55	1	SW2		100A W SP1	SPDT Switch	E-Switch	100AW SP1T2B4M7RE
56	1	SW3		100A WDP1	DPDT Switch	E-Switch	100AW DP1T2B4M7RE
57	3	U1, U2, U3		OPA2604AP	Dual CMOS Op Amp	Burr-Brown	OPA2604AP
58	1	U101		DC-DC Converter	DC-DC Converter	CUI	PDQE10-Q24-D24-D
59	2	HARDWARE		Fluted Knob	Fluted Knob	Cosmo	39-7747-001-00-3-10
60	1	HARDWARE		500 Tray	500 Tray	SCA	
61	1	HARDWARE		500 Cover	500 Cover	SCA	
62	1	HARDWARE		C84-500 Faceplate	C84-500 Faceplate	SCA	
63	8	HARDWARE	#4-40 x 1/8"	Flat head machine screw	Flat head machine screw	MISC	
64	4	HARDWARE	#4-40 x 3/16"	HEX STANDOFF #4-40 ALUM 3/16"	HEX STANDOFF #4-40 ALUM 3/16"	MISC	
65	2	HARDWARE		1/8" Nylon spacer	1/8" Nylon spacer	MISC	
66	4	HARDWARE	#4-40 x 1-1/16"	1/4 HEX 1-1/16" LENGTH Spacer	1/4 HEX 1-1/16" LENGTH Spacer	MISC	