

## SCA C84 Bill of Material

**Rev 2.0**

Item	Qty	Ref	Value	Marking	Description	Mfg	Mfg Part Number	Source	Cat Number
1	2	C8, C9	22pF	220J	C0G Ceramic	Kemet	C315C220J2G5TA	Digi-Key	C315C220J2G5TA
2	4	C1, C14, C17, C25	100pF	101J	C0G Ceramic	Kemet	C315C101J2G5TA	Digi-Key	C315C101J2G5TA
3	13	C12, C19, C21, C26, C28, C32, C36, C41 - C46	0.1uF	104K	X7R Ceramic	Kemet	C320C104K5R5TA	Mouser	C320C104K5R5TA
4	2	C10, C11	1uF/50V	105	Polyester Film	Panasonic	ECQ-V1H105JL	Digi-Key	ECQ-V1H105JL
5	2	C5,C6	1uF/63V	1uF 63V	Polypropylene	BC	2222 416 71005	Digi-Key	BC2076-ND
6	2	C33, C37	22uF/35V	22uF 35V	Aluminum Electrolytic	Panasonic	EEU-FC1V220	Digi-Key	P11230-ND
7	2	C34, C38	22uF/35V	226 35	Tantalum	Kemet	T356K226K035AT	Digi-Key	399-3670-ND
8	2	C23, C30	47uF/25V NP	47uF 25V	Non-Polarized Electrolytic	Nichicon	UVP1E470MED	Mouser	647-UVP1E470MED
9	4	C20, C22, C27, C29	100uF/35V	100uF 35V	Aluminum Electrolytic	Panasonic	EEU-FC1V101	Digi-Key	P10294-ND
10	4	C4, C7, C39, C40	100uF/63V	100uF 63V	Aluminum Electrolytic	Panasonic	EEU-FC1J101L	Digi-Key	P10342-ND
11	2	C31, C35	1500uF/ 50V	1500uF 50V	Aluminum Electrolytic	Panasonic	ECO-S1HA152BA	Digi-Key	P7468-ND
12	1	CONN1			XLR-Female	Neutrik	NC3FBHR2	Brill	NC3FBHR2
13	1	CONN2			XLR-Male	Neutrik	NC3MBHR	Brill	NC3MBHR
14	19	D1 - D19	1N4002	1N4002	Rectifier Diode	Fairchild	1N4002	Mouser	512-1N4002
15	2	J1, J2			3 Pin Header	Molex	22-28-4030	Digi-Key	WM6403-ND
16	2				Shorting Jumpers	Sullins	STC02SYAN	Digi-Key	S9000-ND
17	1	J3			6 Pin Header	Molex	26-60-4060	Digi-Key	WM4624-ND
18	6	L1 - L6	1000pF	C102	Filter	Bourns	EMI102T-RC	Mouser	EMI102T-RC
19	2	Q1, Q2	MAT14ARZ	MAT14ARZ	NPN Matched Quad	Analog Devices	MAT14ARZ	Digi-Key	MAT14ARZ
20	2	Q3, Q7	BC560	BC560	PNP Bipolar	Fairchild	BC560	Mouser	512-BC560
21	2	Q4, Q8	BC550	BC550	NPN Bipolar	Fairchild	BC550	Mouser	512-BC550
22	2	Q5, Q9	MJE182	MJE182	NPN Power	Fairchild	MJE182	Mouser	511-MJE182
23	2	Q6, Q10	MJE172	MJE172	PNP Power	Fairchild	MJE172	Mouser	511-MJE172
24	1	Q11	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06	Mouser	512-MPSA06
25	1	Q12	MPSA56	MPSA56	PNP Bipolar	Fairchild	MPSA56	Mouser	512-MPSA56
26	1	R19	1R0	Brown-Black-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1R0	Digi-Key	1.0QBK-ND
27	5	R20, R46, R47, R58, R59	1R8	Brown-Gray-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-1R8	Digi-Key	1.8QBK-ND
28	1	R21	3R3	Orange-Orange-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-3R3	Digi-Key	3.3QBK-ND
29	2	R5, R6	4R7	Yellow-Violet-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-4R7	Digi-Key	4.7QBK-ND
30	1	R10	5R6	Green-Blue-Gold-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-5R6	Digi-Key	5.6QBK-ND
31	1	R11	10R0	Brown-Black-Black-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10R0	Digi-Key	10.0XBK
32	1	R12	17R8	Brown-Violet-Gray-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-17R8	Digi-Key	17.8XBK
33	2	R48, R60	24R9	Red-Yellow-White-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-24R9	Digi-Key	24.9XBK
34	1	R13	32R4	Orange-Red-Yellow-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-32R4	Digi-Key	32.4XBK
35	1	R14	57R6	Green-Violet-Blue-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-57R6	Digi-Key	57.6XBK
36	2	R43, R55	100	Brown-Black-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-100R	Digi-Key	100XBK
37	1	R15	105	Brown-Black-Green-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-105R	Digi-Key	105XBK
38	2	R65, R69	118	Brown-Brown-Gray-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-118R	Digi-Key	118XBK
39	1	R71	150	Brown-Green-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-150R	Digi-Key	150XBK-ND
40	1	R16	187	Brown-Gray-Violet-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-187R	Digi-Key	187XBK
41	1	R17	348	Orange-Yellow-Gray-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-348R	Digi-Key	348XBK
42	1	R18	680	Blue-Gray-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	CFR-25JB-680	Digi-Key	680QBK-ND
43	2	R8, R9	750	55D 750 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-750-B-B	Mouser	66-RC55LF-D-750
44	2	R22, R23	1K00	55D 1K B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-1K-B-B	Mouser	66-RC55LF-D-1.0K
45	2	R66, R70	1K24	Brown-Red-Yellow-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-1K24	Digi-Key	1.24KXBK
46	2	R25, R28	1K58	55D 1K58 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-1K58-B-B	Mouser	66-RC55LF-D-1.58K
47	2	R31, R32	2K00	Red-Black-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K00	Digi-Key	2.00KXBK
48	1	R24	2K20	Red-Red-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K20	Digi-Key	2.20KXBK
49	1	R26	2K43	Red-Yellow-Orange-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K43	Digi-Key	2.43KXBK
48	3	R35, R36, R38	2K49	Red-Yellow-White-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2K49	Digi-Key	2.49KXBK
49	4	R44, R45, R56, R57	4K75	Yellow-Violet-Green-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-4K75	Digi-Key	4.75KXBK
59	2	R3, R4	6K65	55D 6K65 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-6K65-B-B	Mouser	66-RC55LF-D-6.65K
50	1	R78	7K50	Red-Yellow-White-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-7K50	Digi-Key	7.50KXBK
51	4	R27, R50, R62, R72	10K0	Brown-Black-Black-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10K0	Digi-Key	10.0KXBK
52	4	R40, R41, R52, R53	10K0	55D 10K0 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-10K-B-B	Mouser	66-RC55LF-D-10K
53	2	R63, R67	15K	Brown-Green-Orange-Gold	Metal Film Resistor 1/4W	Yageo	CFR-25JB-15K	Digi-Key	15KQBK-ND
54	4	R39, R49, R54, R61	20K0	55D 20K0 B	Metal Film Resistor 1/4W 0.1%	IRC	RC55LF-D-20K-B-B	Mouser	66-RC55LF-D-20K
55	5	R29, R30, R33, R73, R74	100K	Brown-Black-Black-Orange-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-100K	Digi-Key	100KXBK
56	2	R75, R76	2M20	Red-Red-Black-Yellow-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-2M20	Digi-Key	2.20MVBK
60	2	R64, R68	1K	3296Y-1-102LF	Trimmer Potentiometer	Bourns	3296Y-1-102LF	Digi-Key	3296Y-102LF-ND
61	1	R37	10K	91A1A-B24-D15L	Panel Mount Potentiometer	Bourns	91A1A-B24-D15L	Digi-Key	91A1A-B24-D15L-ND
62	1	SW1		71BDF30-02-1-AJS	Rotary Switch	Grayhill	71BDF30-02-1-AJS	Grayhill	71BDF30-02-1-AJS
63	1	SW2		100A WSP1	SPDT Switch	E-Switch	100AWSP1T2B4M7RE	Digi-Key	EG2435-ND

64	1	SW3		100A WDP1	DPDT Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key	EG2444-ND
65	3	U1, U2, U3		OPA2604AP	Dual CMOS Op Amp	Burr-Brown	OPA2604AP	Digi-Key	OPA2604AP-ND
66	1	U6		LM317T	Voltage Regulator, Pos	National	LM317T	Digi-Key	LM317TNS-ND
67	1	U5		LM337T	Voltage Regulator, Neg	National	LM337T	Digi-Key	LM337TNS-ND
68	2				Heatsink	Aavid	577202B00000	Digi-Key	HS107-ND
69	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
70	4		M2.5 x 6		Pan head machine screw, black			Olander	.25S6PPMZB
71	2		#4-40 x 1/4"		Pan head machine screw			Olander	4C25PPMZR
72	2		#4-40		Kepps nut		4CKNTZR	Olander	4CKNTZR
73	1				PCB	SCA		SCA	