

# SCA J99 Bill of Material

**Rev 3.6**

Item	Qty	Ref	Value	Marking	Description	Manufacturer	Manufacturer's No	Source
1	0	C7, C13 (Optional)	100pF	101	C0G Ceramic Capacitor	Kemet	C315C101J2G5TA	Mouser
2	3	C1, C2, C3	470pF	471	C0G Ceramic Capacitor	Kemet	C315C471J1G5TA	Mouser
3	2	C6, C12	680pF	681	C0G Ceramic Capacitor	Kemet	C315C681J1G5TA	Mouser
4	2	C17, C21	.1uF	104	X7R Ceramic Capacitor	Panasonic	C320C104K1R5TA	Digi-Key
5	6	C8, C9, C14, C15, C26, C27	470nF	474	Metallized Film Capacitor	Panasonic	ECQ-V1H474JL	Digi-Key
6	6	C4, C5, C10, C11, C19, C23	10uF	106 / 35	Tantalum Electrolytic Capacitor	Kemet	T350G106K035AT	Mouser
7	2	C18, C22	22uF	22uf 35V	Radial Electrolytic	Panasonic	EEU-FC1V220	Digi-Key
8	2	C24, C25	100uF	100uF 63V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1J101L	Digi-Key
9	2	C16, C20	1500uF	1500uF 50V	Radial Electrolytic Capacitor	Panasonic	ECO-S1HA152BA	Digi-Key
40	0	L1, L2 (Optional)	JT-OLI-3		Axial Inductor	Jensen	JT-OLI-3	Jensen
10	3	R31, L1, L2	0	Black	Zero Ohm Jumper	Xicon	291-0-RC	Mouser
11	1	R15	10R0	Brown-Black-Black-Gold-Brown	Metal Film Resistor	Xicon	271-10-RC	Mouser
12	1	R19	38R3	Orange-Gray-Orange-Gold-Brown	Metal Film Resistor	Xicon	271-38.3-RC	Mouser
13	2	R9, R18	69R8	Blue-White-Gray-Gold-Brown	Metal Film Resistor	Xicon	271-69.8-RC	Mouser
14	0	R13, R25 (Optional)	100	Brown-Black-Black-Black-Brown	Metal Film Resistor	Xicon	271-100-RC	Mouser
15	2	R35, R39	118	Brown-Brown-Gray-Black-Brown	Metal Film Resistor	Xicon	271-118-RC	Mouser
16	2	R8, R22	127	Brown-Red-Violet-Black-Brown	Metal Film Resistor	Xicon	271-127-RC	Mouser
17	1	R40	150	Brown-Green-Black-Black-Brown	Metal Film Resistor	Xicon	271-150-RC	Mouser
18	2	R11, R21	237	Red-Orange-Violet-Black-Brown	Metal Film Resistor	Xicon	271-237-RC	Mouser
19	2	R10, R20	464	Yellow-Blue-Yellow-Black-Brown	Metal Film Resistor	Xicon	271-464-RC	Mouser
20	1	R4	590	Green-White-Black-Black-Brown	Metal Film Resistor	Xicon	271-590-RC	Mouser
21	1	R30	604	Blue-Black-Yellow-Black-Brown	Metal Film Resistor	Xicon	271-604-RC	Mouser
22	1	R3	750	Violet-Green-Black-Black-Brown	Metal Film Resistor	Xicon	271-750-RC	Mouser
23	1	R23	1K00	Brown-Black-Black-Brown-Brown	Metal Film Resistor	Xicon	271-1K-RC	Mouser
24	1	R5	1K05	Brown-Black-Green-Brown-Brown	Metal Film Resistor	Xicon	271-1.05K-RC	Mouser
25	2	R34, R38	1K24	Brown-Red-Yellow-Brown-Brown	Metal Film Resistor	Xicon	271-1.24K-RC	Mouser
26	1	R6	1K82	Brown-Gray-Red-Brown-Brown	Metal Film Resistor	Xicon	271-1.82K-RC	Mouser
27	2	R12, R26	2K00	Red-Black-Black-Brown-Brown	Metal Film Resistor	Xicon	271-2K-RC	Mouser
28	1	R7	3K30	Orange-Orange-Black-Brown-Brown	Metal Film Resistor	Xicon	271-3.3K-RC	Mouser
29	2	R1, R2	6K65	55D 6K65 B	Metal Film Resistor	IRC	RC55LF-D-6K65-B-B	Mouser
30	1	R42	10K0	Brown-Black-Black-Red-Brown	Metal Film Resistor	Xicon	271-10K-RC	Mouser
31	2	R32, R36	15K	Brown-Green-Orange-Gold	Carbon Film Resistor	Xicon	291-15K-RC	Mouser
32	1	R14	15K0	Brown-Green-Black-Red-Brown	Metal Film Resistor	Xicon	271-15K-RC	Mouser
33	1	R41	100K	Brown-Black-Black-Orange-Brown	Metal Film Resistor	Xicon	271-100K-RC	Mouser
34	1	R27	200K	Red-Black-Black-Orange-Brown	Metal Film Resistor	Xicon	271-200K-RC	Mouser
35	2	R16, R17	1M00	Brown-Black-Black-Yellow-Brown	Metal Film Resistor	Xicon	271-1.0M-RC	Mouser
36	8	R28, R29, R44 - R46, R48 - R50	2M00	Red-Black-Black-Yellow-Brown	Metal Film Resistor	KOA	MF1/2CC2004F	Mouser
37	1	R24	1K	91A1A-B24-B10L	Panel Control	Bourns	91A1A-B24-B10L	Newark
38	2	R33, R37	1K	Y 102	25-Turn Potentiometer	Bourns	3296Y-1-102LF	Digi-Key
39	2	R43, R47	10K	Y 103	25-Turn Potentiometer	Bourns	3296Y-1-103LF	Digi-Key
41	11	D1 - D11	100V	1N4002	Rectifier Diode	General Semi	1N4002	Digi-Key
42	1	Q1	MPSA06	MPSA06	NPN Bipolar Transistor	Fairchild	MPSA06	Mouser
43	1	Q2	MPSA56	MPSA56	PNP Bipolar Transistor	Fairchild	MPSA56	Mouser
44	0	U1, U2 (Optional)	SC99	SC99	Discrete Op-Amp	SCA	SC99KA	SCA
45	1	U3	LT1013	LT1013CP	Dual Op-Amp	Texas Instruments	LT1013CP	Digi-Key
46	1	U4	LM317	LM317T	Voltage Regulator, Positive	National	LM317TNS	Digi-Key
47	1	U5	LM337	LM337T	Voltage Regulator, Negative	National	LM337TNS	Digi-Key
48	1	U6	LM78L12	LM78L12	Voltage Regulator, Positive	National	LM78L12ACZ	Digi-Key
49	1	U7	LM79L12	LM79L12	Voltage Regulator, Negative	National	LM320LZ-12	Digi-Key
50	0	U8, U9 (Optional)	AD797	AD797ANZ	Ultra Low-Noise Op-Amp	Analog Devices	AD797ANZ	Digi-Key

51	3	J1, J2, J5			2 Position Header	Molex	22-28-4020	Digi-Key
52	4	J3, J4, J6, J7			3 Position Header	Molex	22-28-4030	Digi-Key
53	7				Shorting Jumper	Sullins	STC02SYAN	Digi-Key
54	1	J8			6 Position Header	Molex	26-60-4060	Digi-Key
55	1	CONN1			XLR-Female	Neutrik	NC3FBHR-2	Brill
56	1	CONN2			XLR-Male	Neutrik	NC3MBHR	Brill
57	1	SW1		71BDF30-03-1-AJS	Rotary Switch	Grayhill	71BDF30-03-1-AJS	Grayhill
58	1	SW2		100A WSP1	Single-Pole Toggle Switch	E-Switch	100AWSP1T2B4M7RE	Mouser
59	1	SW3		100A WDP1	Double-Pole Toggle Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key
60	1	T1		LL1538XL	Input Transformer	Lundahl	LL1538XL	Lundahl
61	1	T2		CMOB-2H	Output Transformer	CineMag	CMOB-2H	Cinemag
62	14				PCB Socket	Mill-Max	0328-0-15-01-3427100	Digi-Key
63	2				8-Pin DIP Socket	Mill-Max	110-44-308-41-001000	Digi-Key
64	2				Heatsink	Aavid	577202B00000	Digi-Key
65	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo
66	4		M2.5 x 6		Pan head machine screw, black		M2.5 x 6	Olander
66	2		#4-40 x 1/4"		Pan head machine screw		4C25PPMZR	Olander
67	2		#4-40 x 1"		Pan head machine screw		4C100PPMZR	Olander
68	2				1/8" Nylon spacer		4N12RS4N	Olander
69	4		#4-40		#4 Keps nut		4CKNTZR	Olander
70	1			J99	PCB	AC		SCA