

## SCA T15 Bill of Material

**Rev 1.3**

Item	Qty	Ref	Value	Marking	Description	Mfg	Mfg Part Number	Source	Cat Number
1	6	C1, C2, C3, C14, C15, 16	470pF	471	C0G Ceramic Capacitor	Kemet	C315C471J1G5TA	Digi-Key	399-4182-ND
2	12	C18, C19, C22, C23, C27, C28, C29, C30, C31, C32, C33, C34	0.1uF	104	X7R Ceramic Capacitor	Kemet	C320C104K5R5TA	Digi-Key	399-4264-ND
3	4	C8, C9, C10, C11	470nF	474	Metallized Film Capacitor	Panasonic	ECQ-V1H474JL	Digi-Key	P4671-ND
4	2	C5, C6	1uF	1uF 63V	Polypropylene Capacitor	BC	2222 416 71005	Digi-Key	BC2076-ND
5	2	C4, C7	4.7uF	4.7uF 63V BP	Radial Electrolytic Capacitor	Nichicon	UVP1J4R7MED	Mouser	647-UVP1J4R7MED
6	2	C12, C13	10uF	10uF 50V BP	Radial Electrolytic Capacitor	Nichicon	UVP1H100MED	Mouser	647-UVP1H100MED
7	2	C20, C24	100uF	100uF 50V	Radial Electrolytic Capacitor	Panasonic	EEU-EB1H101S	Digi-Key	P13459-ND
8	2	C25, C26	100uF	100uF 63V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1J101	Digi-Key	P10342-ND
9	2	C17, C21	1500uF	1500uF 50V	Radial Electrolytic Capacitor	Panasonic	ECC-S1HA152BA	Digi-Key	P7468-ND
10	1	CONN1			XLR Female	Neutrik	NC3FBHR2	Brill	NC3FBHR2
11	1	CONN2			XLR Male	Neutrik	NC3MBHR	Brill	NC3MBHR
12	15	D1 - D15	1N4002	1N4002	Rectifier Diode	Fairchild	1N4002	Mouser	512-1N4002
13	2	J1, J2			3 Pin Header	Molex	22-28-4030	Digi-Key	WM6403-ND
14	2				Shorting Jumpers	Sullins	STC02SYAN	Digi-Key	S9000-ND
15	1	J3			6 Pin Header	Molex	26-60-4060	Digi-Key	WM4624-ND
16	1				Connector Housing	Molex	09-50-8061	Digi-Key	WM2126-ND
17	6				Crimp Terminals	Molex	08-50-0106	Digi-Key	WM2300-ND
18	2	L1, L2	102J	Shielded Inductor	Shielded Inductor	Fastron	07MFG-102J-50	Mouser	434-02-102J
19	0	L3, L4			Load Isolator (optional)	Jensen	JT-OLI-3	Jensen	JT-OLI-3
20	1	Q1	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06	Mouser	512-MPSA06
21	1	Q2	MPSA56	MPSA56	PNP Bipolar	Fairchild	MPSA56	Mouser	512-MPSA56
22	1	R27	0R0		Black	Xicon	291-0-RC	Mouser	291-0-RC
23	1	R19	3R3	Orange-Orange-Gold-Gold	Orange-Orange-Gold-Gold	Xicon	291-3.3-RC	Mouser	291-3.3-RC
24	1	R20	5R6	Green-Blue-Gold-Gold	Green-Blue-Gold-Gold	Xicon	291-5.6-RC	Mouser	291-5.6-RC
25	3	R1, R2, R21	10R0	Brown-Black-Black-Gold-Brown	Brown-Black-Black-Gold-Brown	Xicon	271-10-RC	Mouser	271-10-RC
26	1	R10	17R8	Brown-Violet-Gray-Gold-Brown	Brown-Violet-Gray-Gold-Brown	Xicon	271-17.8-RC	Mouser	271-17.8-RC
27	1	R11	31R6	Orange-Brown-Blue-Gold-Brown	Orange-Brown-Blue-Gold-Brown	Xicon	271-31.6-RC	Mouser	271-31.6-RC
28	1	R12	56R2	Green-Blue-Red-Gold-Brown	Green-Blue-Red-Gold-Brown	Xicon	271-56.2-RC	Mouser	271-56.2-RC
29	1	R13	102	Brown-Black-Red-Black-Brown	Brown-Black-Red-Black-Brown	Xicon	271-102-RC	Mouser	271-102-RC
30	3	R30, R33, R35	150	Brown-Green-Black-Black-Brown	Brown-Green-Black-Black-Brown	Xicon	271-150-RC	Mouser	271-150-RC
31	1	R14	182	Brown-Gray-Red-Black-Brown	Brown-Gray-Red-Black-Brown	Xicon	271-182-RC	Mouser	271-182-RC
32	1	R15	324	Orange-Red-Yellow-Black-Brown	Orange-Red-Yellow-Black-Brown	Xicon	271-324-RC	Mouser	271-324-RC
33	1	R16	590	Green-White-Black-Black-Brown	Green-White-Black-Black-Brown	Xicon	271-590-RC	Mouser	271-590-RC
34	0	R38, R39	1K00	Brown-Brown-Black-Brown-Brown	Brown-Brown-Black-Brown-Brown	Xicon	271-1K-RC	Mouser	271-1K-RC
35	1	R17	1K10	Brown-Brown-Black-Brown-Brown	Brown-Brown-Black-Brown-Brown	Xicon	271-1.1K-RC	Mouser	271-1.1K-RC
36	1	R5	1K50	Brown-Green-Black-Brown-Brown	Brown-Green-Black-Brown-Brown	Xicon	271-1.5K-RC	Mouser	271-1.5K-RC
37	2	R31, R34	2K00	Red-Black-Black-Brown-Brown	Red-Black-Black-Brown-Brown	Xicon	271-2K-RC	Mouser	271-2K-RC
38	1	R18	2K15	Red-Brown-Green-Brown-Brown	Red-Brown-Green-Brown-Brown	Xicon	271-2.15K-RC	Mouser	271-2.15K-RC
39	2	R3, R4	6K65	55D 6K65 B	55D 6K65 B	Xicon	RC55LF-D-6K65-B-B	Mouser	66-RC55LF-D-6.65K
40	1	R37	10K0	Brown-Black-Black-Red-Brown	Brown-Black-Black-Red-Brown	Xicon	271-10K-RC	Mouser	271-10K-RC
41	2	R29, R32	15K	Brown-Green-Black-Red-Brown	Brown-Green-Black-Red-Brown	Xicon	271-15K-RC	Mouser	271-15K-RC
42	5	R8, R9, R22, R23, R36	100K	Brown-Black-Black-Orange-Brown	Brown-Black-Black-Orange-Brown	Xicon	271-100K-RC	Mouser	271-100K-RC
43	4	R6, R7, R24, R25	1M00	Brown-Black-Black-Yellow-Brown	Brown-Black-Black-Yellow-Brown	Xicon	271-1.0M-RC	Mouser	271-1.0M-RC
44	1	R26	10K		Potentiometer	Bourns	91A1A-B24-D15L	Digi-Key	91A1A-B24-D15L-ND
45	0	R28	100K		Potentiometer (optional)	Bourns	3296Y-1-104LF	Digi-Key	3296Y-104LF-ND
46	1	SW1		71BDF30-02-1-AJS	Rotary Switch	Grayhill	71BDF30-02-1-AJS	Grayhill	71BDF30-02-1-AJS
47	1	SW2		100A WSP1	SPDT Switch	E-Switch	100AWSP1T2B4M7RE	Digi-Key	EG2435-ND
48	1	SW3		100A WDP1	DPDT Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key	EG2444-ND
49	1	U1		THAT 1512P	Mic Amp	THAT Corp	1512P08-U	Mouser	887-1512P08-U
50	1	U2		LT1013CP	Dual Op-Amp	Linear Technology	LT1013CP	Mouser	595-LT1013CP
51	1	U3		THAT 1646	Line Driver	THAT Corp	1646P08-U	Mouser	887-1646P08-U
52	1	U4		OPA134PA	Op-Amp	Texas Instruments	OPA134PA	Mouser	595-OPA134PA
53	1	U5		LM317	Voltage Regulator, Pos	National	LM317T	Mouser	512-LM317T
54	1	U6		LM337	Voltage Regulator, Neg	National	LM337T	Mouser	512-LM337T
55	2				Heatsink	Aavid	577202B00000	Mouser	532-577202B00
56	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
57	6		#4-40 x 1/4"		Pan head machine screw, trilobe			Olander	4C25PPWZZ
58	2		#4-40		Keps nut			Olander	4CKNTZR
59	1				PCB	SCA		SCA	