

**SCA T15-500 Bill of Material**

**Rev 1**

Item	Qty	Ref	Value	Marking	Description	Mfg	Mfg Part Number	Source	Cat Number
1	2	C1, C14	100pF	101	C0G Ceramic Capacitor	Kemet	C315C101J1G5TA	Digi-Key	399-4182-ND
2	10	C15, C16, 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	ECQ-V1H474JL
4	2	C5,C6	1uF	1uF 63V	Polypropylene Capacitor	BC	222.241.671.005	Digi-Key	222.241.671.005
5	2	C4, C7	47uF	47uF 63V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1J470	Digi-Key	EEU-FC1J470
6	2	C12, C13	10uF	10uF 50V BP	Radial Electrolytic Capacitor	Nichicon	UVPIH100MED	Mouser	UVPIH100MED
7	2	C19, C23	22uF	22uf 35V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1V220	Digi-Key	EEU-FC1V220
8	2	C2, C3	100uF	100uF 25V	Radial Electrolytic Capacitor	Panasonic		Digi-Key	
9	2	C25, C26	100uF	100uF 63V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1J101L	Digi-Key	EEU-FC1J101L
13	9	D1 - D8, D16	1N4002	1N4002	Rectifier Diode	Fairchild	1N4002	Mouser	512-1N4002
15	4	L1 - L4	1000pF	C102	Filter	Bourns	EMI102T-RC	Mouser	EMI102T-RC
16	1	Q1	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06	Mouser	512-MPSA06
18	1	R27	0R0	Black	Zero-Ohm Jumper	Xicon	291-0-RC	Mouser	291-0-RC
19	1	R20	3R3	Orange-Orange-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-3.3-RC	Mouser	291-3.3-RC
20	2	R2, R3	4R7	Yellow-Violet-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-4.7-RC	Mouser	291-4.7-RC
21	1	R21	5R6	Green-Blue-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-5.6-RC	Mouser	291-5.6-RC
22	1	R22	10R0	Brown-Black-Black-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-10-RC	Mouser	271-10-RC
23	1	R11	17R8	Brown-Violet-Gray-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-17.8-RC	Mouser	271-17.8-RC
24	1	R12	31R6	Orange-Brown-Blue-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-31.6-RC	Mouser	271-31.6-RC
25	1	R13	56R2	Green-Blue-Red-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-56.2-RC	Mouser	271-56.2-RC
26	1	R14	102	Brown-Black-Red-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-102-RC	Mouser	271-102-RC
27	1	R35	150	Brown-Green-Black-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-150-RC	Mouser	271-150-RC
28	1	R15	182	Brown-Gray-Red-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-182-RC	Mouser	271-182-RC
29	1	R16	324	Orange-Red-Yellow-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-324-RC	Mouser	271-324-RC
30	1	R17	590	Green-White-Black-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-590-RC	Mouser	271-590-RC
31	0	R38, R39 (Optional)	1K00	Brown-Black-Black-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-1K-RC	Mouser	271-1K-RC
32	1	R18	1K10	Brown-Brown-Black-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-1.1K-RC	Mouser	271-1.1K-RC
33	1	R6	2K00	Red-Black-Black-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-2K-RC	Mouser	271-2K-RC
34	1	R19	2K15	Red-Brown-Green-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-2.15K-RC	Mouser	271-2.15K-RC
35	2	R9, R10	3K00	Orange-Black-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-3.0K-RC	Mouser	271-3.0K-RC
36	2	R4, R5	6K65	Blue-Blue-Green-Brown-Brown	Metal Film Resistor 1/4W	Xicon	MFR-25FBF-6K65	Mouser	MFR-25FBF-6K65
37	1	R37	10K0	Brown-Black-Black-Red-Brown	Metal Film Resistor 1/4W	Xicon	271-10K-RC	Mouser	271-10K-RC
38	2	R29, R32	15K	Brown-Green-Black-Red-Brown	Metal Film Resistor 1/4W	Xicon	271-15K-RC	Mouser	271-15K-RC
39	5	R7, R8, R23, R24, R36	100K	Brown-Black-Black-Orange-Brown	Metal Film Resistor 1/4W	Xicon	271-100K-RC	Mouser	271-100K-RC
40	2	R25,R26	1M00	Brown-Black-Black-Yellow-Brown	Metal Film Resistor 1/4W	Xicon	271-1.0M-RC	Mouser	271-1.0M-RC
41	1	R1	10K		Potentiometer	Bourns	91A1A-B24-D15L	Digi-Key	91A1A-B24-D15L-ND
42	0	R28 (Optional)	100K		Potentiometer	Bourns	3296Y-1-104LF	Digi-Key	3296Y-104LF-ND
43	1	SW1		71BDF30-02-1-AJS	Rotary Switch	Grayhill	71BDF30-02-1-AJS	Grayhill	71BDF30-02-1-AJS
44	1	SW2		100A WSP1	SPDT Switch	E-Switch	100AWSP1T2B4M7RE	Digi-Key	EG2435-ND
45	1	SW3		100A WDP1	DPDT Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key	EG2444-ND
46	1	U1		THAT 1512P	Mic Amp	THAT Corp	1512P08-U	Mouser	887-1512P08-U
47	1	U2		LT1013CP	Dual Op-Amp	Linear Technology	LT1013CP	Mouser	595-LT1013CP
48	1	U3		THAT 1646	Line Driver	THAT Corp	1646P08-U	Mouser	887-1646P08-U
49	1	U4		OPA134PA	Op-Amp	Texas Instruments	OPA134PA	Mouser	595-OPA134PA
53	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
59	1	HARDWARE		500 Tray					SCA
60	1	HARDWARE		500 Cover					SCA
61	1	HARDWARE		B16-500 Faceplate					SCA
62	8	HARDWARE	#4-40 x 1/8"	Flat head machine screw					MISC
65	4	HARDWARE	#4-40 x 3/16"	HEX STANDOFF #4-40 ALUM 3/16"					MISC
66	2	HARDWARE		1/8" Nylon spacer					MISC
67	4	HARDWARE	#4-40 x 1-1/16"	1/4 HEX 1-1/16" LENGTH Spacer					MISC
68	1				PCB	SCA			SCA