

SCA T15 Bill of Material

Rev 1.5

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	C18, C22, 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	2222 416 71005	Digi-Key	2222 416 71005
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	UVP1H100MED	Mouser	UVP1H100MED
7	2	C19, C23	22uF	22uF 35V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1V220	Digi-Key	EEU-FC1V220
8	2	C20, C24	100uF	100uF 50V	Radial Electrolytic Capacitor	Panasonic	EEU-EB1H101S	Digi-Key	EEU-EB1H101S
9	2	C25, C26	100uF	100uF 63V	Radial Electrolytic Capacitor	Panasonic	EEU-FC1J101L	Digi-Key	EEU-FC1J101L
10	2	C17, C21	1500uF	1500uF 50V	Radial Electrolytic Capacitor	Panasonic	ECO-S1HA152BA	Digi-Key	ECO-S1HA152BA
11	1	CONN1			XLR Female	Neutrik	NC3FBHR2	Brill	NC3FBHR2
12	1	CONN2			XLR Male	Neutrik	NC3MBHR	Brill	NC3MBHR
13	15	D1 - D15	1N4002	1N4002	Rectifier Diode	Fairchild	1N4002	Mouser	512-1N4002
14	1	J3		6 Pin Header	6 Pin Header	Molex	26-60-4060	Digi-Key	26-60-4060
15	6	L1 - L6	1000pF	C102	Filter	Bourns	EMI102T-RC	Mouser	EMI102T-RC
16	1	Q1	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06	Mouser	512-MPSA06
17	1	Q2	MPSA56	MPSA56	PNP Bipolar	Fairchild	MPSA56	Mouser	512-MPSA56
18	1	R27	0R0	Black	Zero-Ohm Jumper	Xicon	291-0-RC	Mouser	291-0-RC
19	1	R19	3R3	Orange-Orange-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-3.3-RC	Mouser	291-3.3-RC
20	2	R1, R2	4R7	Yellow-Violet-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-4.7-RC	Mouser	291-4.7-RC
21	1	R20	5R6	Green-Blue-Gold-Gold	Carbon Film Resistor 1/4W	Xicon	291-5.6-RC	Mouser	291-5.6-RC
22	1	R21	10R0	Brown-Black-Black-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-10-RC	Mouser	271-10-RC
23	1	R10	17R8	Brown-Violet-Gray-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-17.8-RC	Mouser	271-17.8-RC
24	1	R11	31R6	Orange-Brown-Blue-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-31.6-RC	Mouser	271-31.6-RC
25	1	R12	56R2	Green-Blue-Red-Gold-Brown	Metal Film Resistor 1/4W	Xicon	271-56.2-RC	Mouser	271-56.2-RC
26	1	R13	102	Brown-Black-Red-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-102-RC	Mouser	271-102-RC
27	3	R30, R33, R35	150	Brown-Green-Black-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-150-RC	Mouser	271-150-RC
28	1	R14	182	Brown-Gray-Red-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-182-RC	Mouser	271-182-RC
29	1	R15	324	Orange-Red-Yellow-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-324-RC	Mouser	271-324-RC
30	1	R16	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	R17	1K10	Brown-Brown-Black-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-1.1K-RC	Mouser	271-1.1K-RC
33	3	R5, R31, R34	2K00	Red-Black-Black-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-2K-RC	Mouser	271-2K-RC
34	1	R18	2K15	Red-Brown-Green-Brown-Brown	Metal Film Resistor 1/4W	Xicon	271-2.15K-RC	Mouser	271-2.15K-RC
35	2	R8, R9	3K00	Orange-Black-Black-Brown	Metal Film Resistor 1/4W	Xicon	271-3.0K-RC	Mouser	271-3.0K-RC
36	2	R3, R4	6K65	55D 6K65 B	Metal Film Resistor 1/4W	IRC	RC55LF-D-6K65-B-B	Mouser	66-RC55LF-D-6.65K
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	R6, R7, R22, R23, R36	100K	Brown-Black-Black-Orange-Brown	Metal Film Resistor 1/4W	Xicon	271-100K-RC	Mouser	271-100K-RC
40	2	R24, R25	1M00	Brown-Black-Black-Yellow-Brown	Metal Film Resistor 1/4W	Xicon	271-1.0M-RC	Mouser	271-1.0M-RC
41	1	R26	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
50	1	U5		LM317	Voltage Regulator, Pos	National	LM317T	Mouser	512-LM317T
51	1	U6		LM337	Voltage Regulator, Neg	National	LM337T	Mouser	512-LM337T
52	2				Heatsink	Aavid	577202B00000	Mouser	532-577202B00
53	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
54	4		M2.5 x 6		Pan head machine screw, black			Olander	.25S6PPMZB
54	2		#4-40 x 1/4"		Pan head machine screw			Olander	4C25PPMZR
55	2		#4-40		Keps nut			Olander	4CKNTZR
56	1				PCB	SCA		SCA	