

SCA A12 Bill of Material

Rev 1.7

Item	Qty	Ref	Value	Marking	Description	Manufacturer	Man's Number	Source	Cat Number
1	1	C1	22pF	220J	C0G Ceramic	Kemet	C315C220J2G5TA	Digi-Key	399-4162-ND
2	0	C7 (Optional)	100pF	101J	C0G Ceramic	Kemet	C315C101J2G5TA	Digi-Key	399-4141-ND
3	1	C6	120pF	121J	C0G Ceramic	Kemet	C315C121J1G5TA	Mouser	80-C315C121J1G
4	0	C2 (Optional)	220pF	221J	C0G Ceramic	Kemet	C315C221J1G5TA	Digi-Key	399-4163-ND
5	3	C20, C21, C22	470pF	471J	C0G Ceramic	Kemet	C315C471J1G5TA	Digi-Key	399-4182-ND
6	2	C11, C14, C18, C19	.1uF	104K	X7R Ceramic	Kemet	C315C104M5U5TA	Digi-Key	399-4151-ND
7	1	C8, C9	470nF	474	Polyester Film	Panasonic	ECQ-V1H474JL	Digi-Key	P4671-ND
8	2	C4, C5	22uF/35V	226 35	Tantalum Electrolytic	Kemet	T356K226K035AT	Digi-Key	399-3670-ND
9	2	C12, C15	22uF/35V	22uF 35V	Radial Electrolytic	Panasonic	EEU-FC1V220	Digi-Key	P11230-ND
10	2	C16, C17	100uF/63V	100uF 63V	Radial Electrolytic	Panasonic	EEU-FC1J101L	Digi-Key	P10342-ND
11	1	C3	470uF/10V	470uF 10V	Radial Electrolytic	Panasonic	EEU-FC1A471	Digi-Key	P10221-ND
12	2	C10, C13	1500uF/50V	1500uF 50V	Radial Electrolytic	Panasonic	ECO-S1HA152BA	Digi-Key	P7468-ND
13	1	CONN1			XLR-Female	Neutrik	NC3FBHR-2	Brill	NC3FBHR-2
14	1	CONN2			XLR-Male	Neutrik	NC3MBHR	Brill	NC3MBHR
15	1	J7			Header	Molex	26-60-4060	Digi-Key	WM4624-ND
16	1	D1			LED	Lumex	SSL-LX5093HD	Digi-Key	67-1102-ND
17	7	D2, D3, D4, D5, D6, D7, D8			Diode	General Semi	1N4002	Digi-Key	1N4002-E3/54GICT-ND
18	1	J1, J2, J5, J6			2 way Pin Header	Molex	22-28-4020	Digi-Key	WM6402-ND
19	2	J3, J4			3 way Pin Header	Molex	22-28-4030	Digi-Key	WM6403-ND
20	3				Shorting jumpers	Sullins	STC02SYAN	Digi-Key	S9000-ND
21	0	L1, L2 (Optional)			Load Isolator	Jensen	JT-OLI-3	Jensen	JT-OLI-3
22	1	Q1	MPSA06	MPSA06	NPN Bipolar	Fairchild	MPSA06	Digi-Key	MPSA06-ND
23	1	Q2	MPSA56	MPSA56	PNP Bipolar	Fairchild	MPSA56	Digi-Key	MPSA56-ND
24	3	R19, (L1, L2)	0	Black	Zero Ohm Jumper	Yageo	ZOR-25-B	Digi-Key	0.0QBK-ND
25	1	R11	97R6	White-Violet-Blue-Gold-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-97R6	Digi-Key	97.6XBK-ND
26	0	R22 (Optional)	100	Brown-Black-Black-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-100R	Digi-Key	100XBK-ND
27	2	R26, R30	118	Brown-Brown-Gray-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-118R	Digi-Key	118XBK-ND
28	1	R33	150	Brown-Green-Brown-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-150R	Digi-Key	150QBK-ND
29	1	R12	174	Brown-Violet-Yellow-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-174R	Digi-Key	174XBK-ND
30	1	R13	309	Orange-Black-White-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-309R	Digi-Key	309XBK-ND
31	1	R1	562	Green-Blue-Red-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-562R	Digi-Key	562XBK-ND
32	1	R38	604	Blue-Black-Yellow-Black-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-604R	Digi-Key	604XBK-ND
33	1	R2	1K02	Brown-Black-Red-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-1K02	Digi-Key	1.02KXBK-ND
34	2	R27, R31	1K24	Brown-Red-Yellow-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-1K24	Digi-Key	1.24KXBK-ND
35	1	R3	1K91	Brown-White-Brown-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-1K91	Digi-Key	1.91KXBK-ND
36	1	R4	3K65	Orange-Blue-Green-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-3K65	Digi-Key	3.65KXBK-ND
37	1	R9	6K04	Blue-Black-Yellow-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-6K04	Digi-Key	6.04KXBK-ND
38	2	R36, R37	6K65	55D 6K65 B	Metal Film Resistor 1/4W	IRC	RC55LF-D-6K65-B-B	Mouser	66-RC55LF-D-6.65K
39	1	R5	7K50	Violet-Green-Black-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-7K50	Digi-Key	7.50KXBK-ND
40	1	R10	7K68	Violet-Blue-Gray-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-7K68	Digi-Key	7.68KXBK-ND
41	1	R21	9K76	White-Violet-Blue-Brown-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-9K76	Digi-Key	9.76KXBK-ND
42	2	R23, R35	10K0	Brown-Black-Black-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10K0	Digi-Key	10.0KXBK-ND
43	1	R8	10K7	Brown-Black-Violet-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-10K7	Digi-Key	10.7KXBK-ND
44	2	R28, R32	15K	Brown-Green-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-15K	Digi-Key	15KQBK-ND
45	1	R7	19K6	Brown-White-Blue-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-19K6	Digi-Key	19.6KXBK-ND
46	2	R14, R15	22K	Red-Red-Orange-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-22K	Digi-Key	22KQBK-ND
47	1	R6	34K0	Orange-Yellow-Black-Red-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-34K0	Digi-Key	34.0KXBK-ND
48	3	R17, R18, R34	100K	Brown-Black-Yellow-Gold	Carbon Film Resistor 1/4W	Yageo	CFR-25JB-100K	Digi-Key	100KQBK-ND
49	0	R19, R20 (Optional)	1M00	Brown-Black-Black-Yellow-Brown	Metal Film Resistor 1/4W	Yageo	MFR-25FBF-1M00	Digi-Key	1.00MXBK-ND
50	1	R16	10K	103	Trimmer Potentiometer	Bourns	3296Y-1-103LF	Digi-Key	3296Y-103LF-ND
51	2	R25, R29	1K	102	Trimmer Potentiometer	Bourns	3296Y-1-102LF	Digi-Key	3296Y-102LF-ND
52	1	R24	10K	91A1A-B24-B15L	Panel Mount Potentiometer	Bourns	91A1A-B24-B15L	Digi-Key	91A1A-B24-B15L-ND
53	1	SW1		71BDF30-02-1-AJS	Rotary Switch	Grayhill	71BDF30-02-1-AJS	Grayhill	71BDF30-02-1-AJS
54	1	SW2		100A WSP1	SPDT Switch	E-Switch	100AWSPT12B4M7RE	Digi-Key	EG2435-ND

55	1	SW3		100A WDP1	DPDT Switch	E-Switch	100AWDP1T2B4M7RE	Digi-Key	EG2444-ND
56	1	T1a		CMMI-8-PCA	Input transformer	CineMag	CMMI-8-PCA	CineMag	CMMI-8-PCA
57	1	T2		CMOQ-2S	Output transformer	CineMag	CMOQ-2S	CineMag	CMOQ-2S
58	0	U1 (Optional)		SC25	Op-Amp	SCA	SC25	SCA	SC25KA
59	0	U2 (Optional)	AD797AN	AD797AN	Op-Amp	Analog Devices	AD797AN	Digi-Key	AD797AN-ND
60	0	U3 (Optional)	LT1013CP	LT1013CP	Dual Op-Amp	Texas Instruments	LT1013CP	Digi-Key	296-1399-5-ND
61	1	U4	LM317T	LM317T	Voltage Regulator, Pos	National	LM317T	Digi-Key	LM317TNS-ND
62	1	U5	LM337T	LM337T	Voltage Regulator, Neg	National	LM337T	Digi-Key	LM337TNS-ND
63	0	U6 (Optional)	LM78L12	LM78L12	Voltage Regulator, Positive	National	LM78L12ACZ	Digi-Key	LM78L12ACZ-ND
64	0	U7 (Optional)	LM79L12	LM79L12	Voltage Regulator, Negative	National	LM320LZ-12	Digi-Key	LM320LZ-12
65	7				Pin Socket	Mill-Max	0328-0-15-15-34-27-10-0	Digi-Key	ED90082-ND
66	2				Heatsink	Aavid	577202B00000	Digi-Key	HS107-ND
67	2				Fluted Knob	Cosmo	39-7747-001-00-3-10	Cosmo	39-7747-001-00-3-10
68	4		M2.5 x 6		Pan head machine screw, black			Olander	.25S6PPMZB
69	2		#4-40 x 1"		Pan head machine screw			Olander	4C100PPMZR
70	2		#4-40 x 1/4"		Pan head machine screw			Olander	4C25PPMZR
71	4		#4-40		Kepps nut			Olander	4CKNTZR
72	2				1/8" Nylon spacer			Olander	4N12RS4N
73	1				PCB	SCA		SCA	