

Bill of Materials for AVRSynth 16-bit Full Kit (AVRSynth 16-bit Full Kit)

Item	Description	Qty	Designator	Package
	PCB			
1	AVR Synth PCB	1		-
	KITS			
2	AVRSynth Desktop Enclosure Kit Rev1.0	1		-
3	AVRSynth16 Component Kit Rev1.0	1		-

Bill of Materials for AVRSynth16 Component Kit Revision 1.0 (AVRSynth16 Component Kit)

Item	Description	Qty	Designator	Package
CAPACITOR				
1	22pF 10% Ceramic, NPO	2	C202, C203	RAD-0.2N
2	100nF Decoupling Capacitor	8	C201, C302, C303, C306, C307, C308, C309, C310	RAD-0.2N
3	10uF 50V Electrolytic	2	C304, C305	RB-D5.0-P2.0
4	10uF 35V Tantalum	1	C311	RB-D7.5-P5.0
5	22uF 50V Electrolytic	1	C401	RB-D5.0-P2.0
6	100uF 50V Electrolytic	1	C301	RB-D8.0-P3.5
CONNECTOR				
7	2-way 0.1inch Crimp Housing	3	J201, J301, J401	2.54MM
8	2x5 IDC Socket	2	J202, J203	2.54MM
9	2-way 0.1inch Straight - Locking Header	3	J201, J301, J401	2.54MM
10	2x5 Open Pin Header	1	J202	2.54MM
11	Crimp to suit 0.1inch Series MTA	6		-
12	2x5 Box Header	1	J203	2.54mm
13	2x20-way Box Header	1	J101	2.54mm
14	2x20-way IDC Socket	1	J101	2.54mm
15	8-pin IC Socket 0.3inch	1	U201	DIP-8
16	20-pin IC Socket 0.3inch	2	U401, U402	DIP-20
17	40-pin IC Socket 0.6inch	1	U202	DIP-40
CRYSTAL				
18	Insulator for HC-18/U	1	X201	-
19	8MHz Crystal	1	X201	HC49/U
DIODE				
20	1N4004 200V 1A	2	D301, D302	DIODE-0.4
21	1N4148	21	D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D114, D115, D116, D117, D118, D119, D120, D201	DIODE-0.3
HARDWARE				
22	HEATSINK - TO-220 Type 6021	1	U301	-
23	M3 Nut	1	U301	-

Bill of Materials for AVRSynth16 Component Kit Revision 1.0 (AVRSynth16 Component Kit)

Item	Description	Qty	Designator	Package
	HARDWARE - continued			
24	M3 x 6mm Bolt PH	1	U301	-
	LINEAR			
25	ATMEGA16L-8PI	1	U202	-
26	6N138 - Opto-coupler	1	U201	DIP-8
27	7805 +5V 1A Fixed Voltage Regulator	1	U301	TO-220
	INDUCTOR			
28	10uH RF Choke	1	L301	AXIAL-0.4
	LOGIC			
29	74HC574 - Octal D-type Flip-Flop	2	U401U	-
	POTENTIOMETER			
30	20KB LIN - 18T Spline	8	P1, P2, P3, P4, P5, P6, P7, P8	ALPHA 16MM
	RESISTOR			
31	4R7 1% 0.5W Metal Film	1	R301	AXIAL-0.4
32	220R 1% 0.5W Metal Film	4	R201, R202, R204, R302	AXIAL-0.4
33	10K 1% 0.5W Metal Film	1	R434	AXIAL-0.4
34	15K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
35	33K 1% 0.5W Metal Film	1	R433	AXIAL-0.4
36	75K 1% 0.5W Metal Film	11	R410, R412, R414, R416, R418, R420, R422, R424, R426, R428, R430	AXIAL-0.4
37	150K 1% 0.5W Metal Film	13	R409, R411, R413, R415, R417, R419, R421, R423, R425, R427, R429, R431, R409, R411, R413, R415, R417, R419, R421, R423, R425, R427, R429, R431, R432	AXIAL-0.4
38	4 x 10K Commoned Resistor Network	2	R205, R206	SIP-5
39	75K 0.1% Metal Film	4	R402, R404, R406, R408	AXIAL-0.4
40	150K 0.1% Metal Film	4	R401, R403, R405, R407	AXIAL-0.4
	SWITCH			
41	SPDT Panel (ON-ON)	21	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S20, S21	-

Bill of Materials for AVRSynth16 Component Kit Revision 1.0 (AVRSynth16 Component Kit)

Item	Description	Qty	Designator	Package
TRANSISTOR				
42	2N3904 NPN Transistor	1	Q401	TO-92

Bill of Materials for AVRSynth Desktop Enclosure Kit Revision 1.0 (AVRSynth Desktop Enclosure Kit)

Item	Description	Qty	Designator	Package
	CONNECTOR			
1	6.35mm Mono Socket - Plastic, Panel	1		-
2	2x20-way IDC Socket	1		2.54mm
3	5-PIN DIN Panel Socket	1		-
4	2.5mm DC Panel Socket	1		-
	ENCLOSURE			
5	Desktop Console - PT-10	1		-
	HARDWARE			
6	M3 x 10mm Bolt PH Polycarbonate	6		-
7	KNOB - 20mm Black, 'D' shaft, White Cap	8	P1, P2, P3, P4, P5, P6, P7, P8	-
8	M3 x 20mm Bolt CS	4	PCBMOUNTING	-
9	M3 x 8mm Spacer Nylon	4	PCBMOUNTING	-
10	M3 Nut	10	PCBMOUNTING	-
11	40-Way IDC Ribbon Cable (Unit=1cm)	100		-
12	Equipment 10/0.1 - Black (Unit=cm)	100	POWER	-
13	Equipment 10/0.1 - Red (Unit=cm)	100	POWER	-
14	Equipment 10/0.1 - Orange (Unit=cm)	50	J401	-
15	Equipment 10/0.1 - Yellow (Unit=cm)	50	J201	-
16	Equipment 10/0.1 - Green (Unit=cm)	50	J201	-
17	Equipment 10/0.1 - Blue (Unit=cm)	50	J401	-
18	Equipment 10/0.1 - Violet (Unit=cm)	100	J203	-
	OPTO-ELECTRONIC			
19	3mm Recessed Chrome Green LED	1	D101	-
20	3mm Recessed Chrome Red LED	1	D102	-
	PANEL			
21	AVRSynth Rear Panel	1		-
22	AVRSynth Front Panel	1		-
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