

Bill of Materials for MonoWave(X) Main Component Kit

Item	Description	Qty	Designator
	LOGIC - continued		
49	CD4016 - Quad Analogue switch	2	U803, U1003
50	CD4024 - 7-stage Binary Counter	2	U504, U604
51	CD4040 - 12 stage Ripple Counter	2	U505, U605
52	74HC00 - Quad NAND Gate	10	U202, U204, U303, U404, U501, U502, U601, U602, U701, U705
53	74HC74 - Dual D-Type Edge Triggered	1	U406
54	74HC374 - Tri-State Octal D-Type Flip-Flop	3	U203, U506, U606
	RESISTOR		
55	220R 1% 0.5W Metal Film	3	R201, R202, R206
56	1K 1% 0.5W Metal Film AXIAL-0.4	24	R203, R207, R209, R401, R402, R403, R501, R502, R601, R602, R702, R704, R801, R902, R903, R904, R905, R910, R911, R913, R914, R915, R924, R1001
57	1K5 1% 0.5W Metal Film	1	R205
58	2K7 1% 0.5W Metal Film	2	R901, R912
59	5K6 1% 0.5W Metal Film	2	R701, R703
60	10K 1% 0.5W Metal Film	5	R208, R301, R302, R303, R304
61	15K 1% 0.5W Metal Film	2	R210, R925
62	22K 1% 0.5W Metal Film	2	R1107, R1207
63	39K 1% 0.5W Metal Film	2	R1112, R1212
64	47K 1% 0.5W Metal Film	10	R917, R919, R1104, R1105, R1106, R1108, R1204, R1205, R1206, R1208
65	68K 1% 0.5W Metal Film	2	R1113, R1213

Bill of Materials for MonoWave(X) Main Component Kit

Item	Description	Qty	Designator
	CONNECTOR - continued		
19	HDR - 1x2 Pin	9	J204, LK401, LK402, LK403, LK801, LK1001, LK1101, LK1201, LK1202
20	HDR - 1x3 Pin	1	J206
21	8-pin IC Socket 0.3"	6	U201, U401, U405, U704, U801, U1001
22	14-pin IC Socket 0.3"	26	-
23	16-pin IC Socket 0.3"	3	-
24	20-pin IC Socket 0.3"	6	U503, U603
25	28-pin IC Socket 0.6"	2	U702, U706
26	40-pin IC Socket 0.6"	1	U205
	CRYSTAL		
27	Insulator for HC-18/U	1	X201
28	16MHz Crystal	1	X201
	DIODE		
29	1N4004 200V 1A Diode	3	D1, D2, D3
30	1N4148 Signal Diode	6	D201, D202, D801, D1001, D1101, D1201
	HARDWARE		
31	TO-220 Insulating Kit (Washer and M3 Bush)	1	U2
32	TO-220 Insulating Kit (Washer and M3 Bush)	1	U2

Bill of Materials for MonoWave(X) Main Component Kit

Item	Description	Qty	Designator
	HARDWARE - continued		
33	M3x10mm SS PH Bolt	2	U1, U3
34	M3 SS Nut	2	U1, U3
35	M3x10mm SS PH Bolt	1	U2
36	M3 SS Nut	1	U2
37	M3 Nylon/Fibre Washer	1	U3
38	M3x10mm SS PH Bolt	3	U1, U2, U3
39	M3 SS Nut	3	U1, U2, U3
	LINEAR		
40	TL082 Dual JFET Opamp	4	U405, U704, U801, U1001
41	TL084 Quad JFET Opamp	2	U1102, U1202
42	6N138 - Opto-coupler	1	U201
43	LM741 - General-purpose Opamp	1	U401
44	7805 +5V 1A Fixed Voltage Regulator	1	U3
45	7815 +15V 1A Fixed Voltage Regulator	1	U1
46	7915 -15V 1A Fixed Voltage Regulator	1	U2
47	LM13700 Dual OTA	1	U902
	LOGIC		
48	CD4011 - Quad 2-input NAND Gate	2	U802, U1002

Bill of Materials for MonoWave(X) Main Component Kit

Item	Description	Qty	Designator
	CAPACITOR		
1	15pF 5% Ceramic, Low K	4	C401, C402, C701, C702
2	18pF 5% Ceramic, Low K	2	C201, C202
3	27pF 5% Ceramic, Low K	2	C1101, C1201
4	33pF 5% Ceramic, Low K	1	C204
5	150pF 5% Ceramic, Low K	2	C302, C304
6	100nF 50V Polyester	11	C301, C303, C901, C902, C903, C904, C907, C1102, C1202, C1203, C1204
7	100nF Decoupling Capacitor	14	C5, C6, C9, C10, C203, C403, C501, C502, C601, C602, C1103, C1104, C1205, C1206
8	220nF 50V Polyester	4	C503, C603, C703, C704
9	1uF 35V Tantalum	2	C2, C4
10	10uF 35V Tantalum	3	C801, C908, C1001
11	22uF 63V Electrolytic	1	C905
12	220uF 25V Electrolytic	1	C906
13	470uF 35V Electrolytic	2	C1, C3
	CONNECTOR		
14	IDC - 40-way Box Header	3	J101, J102, J103
15	5-PIN DIN Panel Socket	2	J203, J205
16	MTA - 4-way 0.1" Straight, Locking Header	1	J1
17	HDR - Jumper Shunt	8	LK401, LK402, LK403, LK801, LK1001, LK1101, LK1201, LK1202
18	HDR - 1x1 Pin	3	TP201, TP602, TP602

Bill of Materials for MonoWave(X) Main Component Kit

Item	Description	Qty	Designator
	RESISTOR - continued		
66	100K 1% 0.5W Metal Film AXIAL-0.4	17	R204, R916, R920, R921, R922, R923, R1102, R1103, R1109, R1110, R1111, R1201, R1202, R1203, R1209, R1211
67	390K 1% 0.5W Metal Film	4	R906, R907, R908, R909
68	470K 1% 0.5W Metal Film	1	R918
69	1M 1% 0.5W Metal Film	4	R803, R804, R1003, R1004
70	2M2 1% 0.5W Metal Film	2	R802, R1002
71	4 x 10K Commoned Resistor Network	2	RN201, RN202
	TRANSISTOR		
72	CA3046 5 NPN Transistors	3	U901, U1101, U1201
73	2N3904 NPN Transistor	10	Q201, Q301, Q302, Q901, Q902, Q903, Q904, Q905, Q906, Q908
74	2N3906 PNP Transistor	1	Q907
	TRIMPOT		
75	20K 21-Turn Vertical Cermet Trimpot - 64W	6	P401, P801, P901, P1001, P1111, P1201
	End of document		

Bill of Materials for MonoWave(X) Panel Component Kit

Item	Description	Qty	Designator
	CONNECTOR		
1	HDR - 1x16 Pin Extended	1	LCD
2	IDC - 40-way Box Header	3	J101, J102, J1304
3	MTA - 3-way 0.1" Straight, Locking Header	1	J104
	HARDWARE		
4	Knob to suit PCB Pushbutton Switch	8	S1303, S1304, S1305, S1306, S1307, S1308, S1309, S1310
5	Panther Knob - Yellow	23	P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, S1311, S1312
6	M2.5 SS Nut	4	LCD
7	M2.5x12mm SS PH Bolt	4	LCD
8	M4x6mm Untapped Nylon Spacer	4	LCD
	OPTO-ELECTRONIC		
9	2x16 Backlit LCD	1	LCD
10	5mm Red LED	3	D1301, D1302, D1303
11	5mm Red Lens Mount	3	D1301, D1302, D1303
	POTENTIOMETER		
12	10K LIN with SPDT (XAG16ECO, 1/4 D shaft)	2	P103, P105
13	10K LIN DUAL (LA16ECO, 1/4" D shaft)	1	P120

Bill of Materials for MonoWave(X) Panel Component Kit

Item	Description	Qty	Designator
	POTENTIOMETER - continued		
14	10K LIN (LA16ECO, 1/4" D shaft)	11	P101, P102, P104, P106, P107, P108, P109, P110, P113, P117, P121
15	47K LIN (LA16ECO, 1/4" D shaft)	1	P111
16	100K LOG (LA16ECO, 1/4" D shaft)	6	P112, P114, P115, P116, P118, P119
	RESISTOR		
17	4R7 1% 0.5W Metal Film	1	R1304
18	4R7 1% 0.5W Metal Film	1	R1304
19	330R 1% 0.5W Metal Film	2	R1301, R1302
20	1K8 1% 0.5W Metal Film	1	R1303
21	100K 1% 0.5W Metal Film	2	R101, R102
	SWITCH		
22	1P12W Rotary Switch	2	S1311, S1312
23	SPDT Pushbutton PCB with V-bracket	8	S1303, S1304, S1305, S1306, S1307, S1308, S1309, S1310
	TRIMPOT		
24	10K 21-Turn Vertical Cermet Trimpot - 64W	1	P1301
	End of document		

Bill of Materials for MonoWave(X) Enclosure Kit

Item	Description	Qty	Designator
	CONNECTOR		
1	6.35mm Stereo Socket, Panel	1	AUDIO OUT
2	IDC - 40-way IDC Socket	6	-
3	5-PIN DIN Panel Socket	2	MIDIIN, MIDIOUT
4	MTA - Crimp to suit 0.1" Series MTA	7	POWER, AUDIOOUT
5	MTA - 3-way 0.1" Crimp Housing	1	AUDIO OUT
6	MTA - 4-way 0.1" Crimp Housing	1	POWER
7	4-pin Male Microphone Panel	1	POWER
8	4-pin Female Microphone Plug	1	POWER
	ENCLOSURE		
9	2U Rack Metal Rack	1	-
	HARDWARE		
10	M3x10mm Hexagonal Standoff MF	4	-
11	15mm Matt Black Lined Nut Cover - Collet	23	-
12	15mm Matt Black Body - Collet Knob	23	-
13	15mm White Lined Cap - Collet Knob	23	-
14	M3 SS Nut	15	-
15	M3x10mm SS PH Bolt	11	-
16	2-core Screened Audio wire	42	AUDIOOUT

