

## Music5xxx PCB BOM

Quantity	Designation	Designator	Notes
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### Resistors

16	1K	R1, R2, R3, R4, R5, R6, R7, R8, R9, R13, R15, R21, R25, R27, R33, R38	Standard 1% metal film through hole resistors
1	4K7	R37	
21	15K	R10, R11, R12, R14, R16, R17, R18, R19, R20, R22, R23, R24, R26, R28, R29, R30, R31, R32, R34, R35, R36	
1	1Kx8	RP1	9 pin resistor array, commoned

### Capacitors

5	0.1uF	C5, C6, C10, C40, C41	Ceramic: 2.5mm lead pitch
8	1n	C15, C16, C17, C18, C21, C22, C23, C24	Film: 5mm lead pitch
23	22nF	C7, C8, C12, C13, C14, C19, C20, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C42, C43	Film: 5mm lead pitch
4	10uF	C1, C2, C11, C39	Electrolytic 2.5mm lead pitch
2	2200uF	C3, C4	Electrolytic 7.5mm lead pitch

Note: C9 (33pf, C44, C45 (220nF) not fitted

### Diodes

6	1N4001	D5, D6, D3, D4, D2, D1	DO41
1	PWR	D7	3mm LED
1	12V Zener Diode	ZD1	DO35

### Integrated Circuits

1	74HCT00	IC14	
1	74F04	IC5	
3	74HCT08	IC2, IC7, IC8	
1	74HCT30	IC33	
3	74HCT32	IC4, IC30, IC35	
2	74HCT74	IC33, IC33	
1	74HCT86	IC15	
1	74HCT138	IC10	
4	74HCT163	IC19, IC20, IC21, IC24	
2	74HCT173	IC15, IC31	
1	74HCT244	IC17	
2	74HCT257	IC18, IC23	
2	74HCT283	IC6, IC11	
7	74HCT374	IC12, IC13, IC16, IC26, IC27, IC29, IC32	
1	74HCT393	IC9	
2	TL072	IC37, IC38	
1	AM6070D	IC36	
1	R-78E5.0-1.0	IC1	DC-DC converter – 1A, 7805 pinout switching module
1	LM7815	IC39	+15V Voltage regulator
1	LM7915	IC40	-15V Voltage regulator
2	AM9128-10	IC22, IC28	Memory IC

**IC Sockets**

2	8 Way	7.62mm wide
13	14 Way	7.62mm wide
11	16 Way	7.62mm wide
1	18 Way	7.62mm wide
8	20 Way	7.62mm wide
2	24 Way	Wide 15.24mm

**Connectors – Molex KK/JST XH or similar**

2	J2, J3	2 way
1	J1, J4	3 way
1	J5, J6	4 way – optional if using audio jack only

**1Mhz Bus connectors**

1	1MHzBus1	J11	34 way (2x17) 2.54mm Straight IDC Header (use if connecting extender/midi)
1	1MHzBus2	J12	34 way (2x17) 2.54mm Angled IDC Header for 1Mhz Bus connection
			IDC plugs for 1Mhz bus connection
			34 way ribbon cable for 1Mz bus connection

**Jack sockets**

1	FCR1295	J7	Cliff FCR1295 stereo jack socket PCB mount
1	2.1mm panel mount socket	Not on PCB	Or suitable panel mount socket for 15V AC connection

**Misc**

1	12 Mhz Crystal	X1	Crystal HC49 Through hole
1	Ferrite	FB1	Or use wire link. Ferrite helps isolate switcher supply noise.
13	15mm hex standoffs, M3, male-female		Used for stacking boards