



# BMP (EHX™ Big Muff Pi™ Replica) Op Amp Version Bill of Materials

Version 2012December27

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## Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R2	56k	 green-blue-orange	 green-blue-black-red
R3	330k	 orange-orange-yellow	 orange-orange-black-orange
R4	10k	 brown-black-orange	 brown-black-black-red
R5	47k	 yellow-violet-orange	 yellow-violet-black-red
R6	560k	 green-blue-yellow	 green-blue-black-orange
R7	62k	 blue-red-orange	 blue-red-black-red
R8	47 ohm	 yellow-violet-black	 yellow-violet-black-gold
R9	8k2 (8.2k)	 gray-red-red	 gray-red-black-brown
R10	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R11	5k6 (5.6k)	 green-blue-red	 green-blue-black-brown
R12	1k2 (1.2k)	 brown-red-red	 brown-red-black-brown
R13	100k	 brown-black-yellow	 brown-black-black-orange
R14	47 ohm	 yellow-violet-black	 yellow-violet-black-gold
R15	220k	 red-red-yellow	 red-red-black-orange











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R16	220k	 red-red-yellow	 red-red-black-orange
R17	820k	 gray-red-yellow	 gray-red-black-orange
R18	1M	 brown-black-green	 brown-black-black-yellow
R19 (Sustain Control)	10k Linear Potentiometer		
R20 (Tone Control)	10k Linear Potentiometer		
R21 (Volume Control)	100k Log Potentiometer		
R22	1k	 brown-black-red	 brown-black-black-brown

## Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.15 $\mu$ F	Film	154
C2	0.01 $\mu$ F	Film	103
C3	0.0047 $\mu$ F	Ceramic or Film	472 or 4n7
C4	10 $\mu$ F	Aluminum Electrolytic	10 $\mu$ F
C5	4.7 $\mu$ F	Aluminum Electrolytic	4.7 $\mu$ F
C6	15pF	Ceramic or Film	150
C7	1 $\mu$ F	Film	105
C8	0.1 $\mu$ F	Film	104
C9	0.12 $\mu$ F	Film	124
C10	220 $\mu$ F	Aluminum Electrolytic	220 $\mu$ F
C11	1 $\mu$ F	Film	105
C12	0.22 $\mu$ F	Film	224



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**Potentiometers:**

Part ID	Value	Type
R19 - Sustain Control	10k	Linear Taper
R20 - Tone Control	10k	Linear Taper
R21 - Volume Control	100k	Log (or Audio) Taper

**Other:**

Part ID	Part Name
D1	1N914
D2	1N914
D3	1N914
D4	1N914
D5	1N914
D6	1N914
D7	LED
IC1	JRC4558D dual opamp 8-pin IC
IC2	741 single opamp 8-pin IC
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
B1	9 volt battery (Not included in the Kit)
Sw1	Heavy Duty 3PDT foot switch
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs