



# PT80 Delay Bill of Materials













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## Resistors:

Component Count	Value	3-band Marking	4-band Marking
7	1k	 brown-black-red	 brown-black-black-brown
11	10k	 brown-black-orange	 brown-black-black-red
5	22k	 red-red-orange	 red-red-black-red
2	36k	 orange-blue-orange	 orange-blue-black-red
1	100k	 brown-black-yellow	 brown-black-black-orange
2	1M	 brown-black-green	 brown-black-black-yellow

## Capacitors:

Component Count	Value	Type	Possible Marking
1	47pF	Ceramic or Film	470
2	100pF	Ceramic or Film	101
1	470pF	Ceramic or Film	471
2	0.001 $\mu$ F	Film	102
2	0.0022 $\mu$ F	Film	222
2	0.01 $\mu$ F	Film	103
2	0.015 $\mu$ F	Film	153
1	0.033 $\mu$ F	Film	333
1	0.047 $\mu$ F	Film	473
5	0.1 $\mu$ F	Film	104
2	0.47 $\mu$ F	Film	474
10	1 $\mu$ F	Film	105
2	10 $\mu$ F	Aluminum Electrolytic	10 $\mu$ F
1	47 $\mu$ F	Aluminum Electrolytic	47 $\mu$ F



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3	100uF	Aluminum Electrolytic	100uF
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### **Potentiometers:**

Part ID	Value	Type
Delay Time	50k	Linear Taper
Delay Level	50k	Linear Taper
Repeats	50k	Linear Taper

### **Other:**

Component Count	Part Name
1	TL072 or similar dual opamp (Kit does not include a socket for this IC)
1	NE571N or SA571 Compander
1	PT2399 Delay IC
1	MAX1044 Charge Pump
3	1N914
2	8 pin socket (optional)
2	16 pin socket (options)
1	LED
1	2N5089 or 2N5088
1	78L05 (5 volt regulator)
1	78L12 (12 volt regulator)
2	Mono quarter-inch jack
1	DC Jack
1	Heavy Duty 3PDT foot switch
	Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs