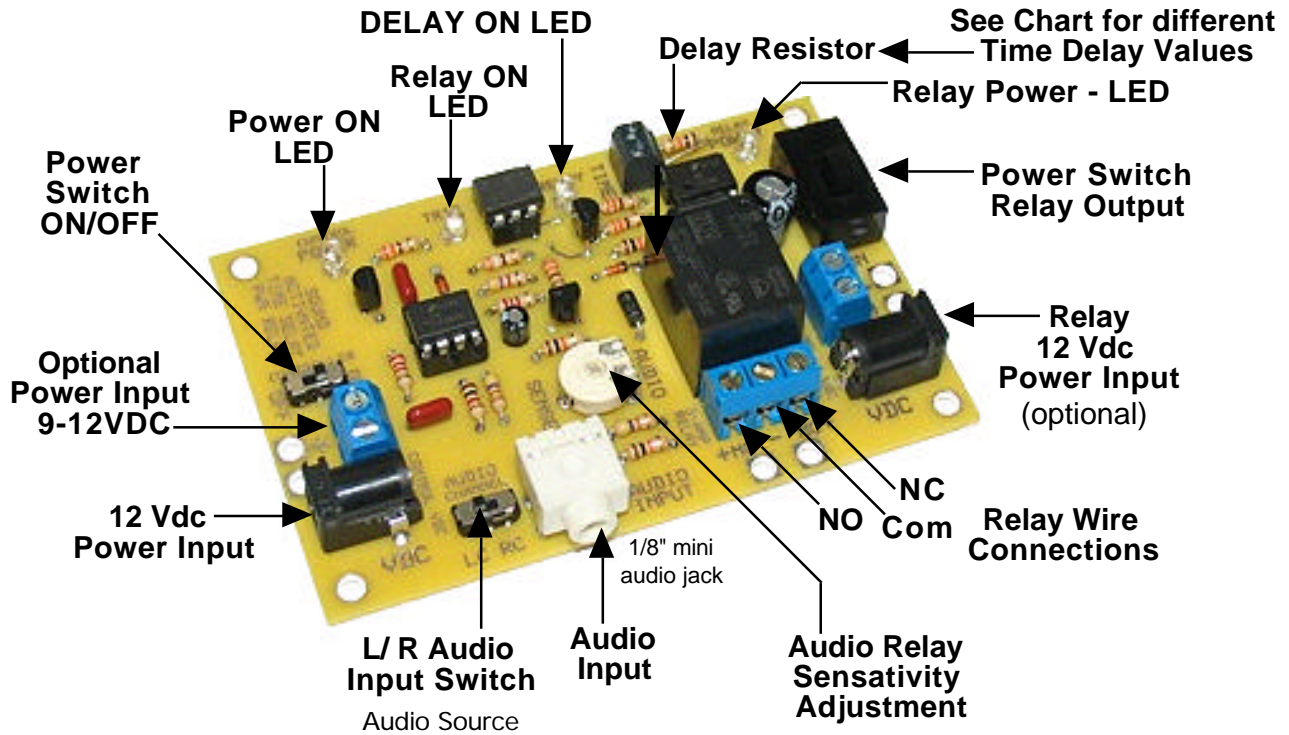


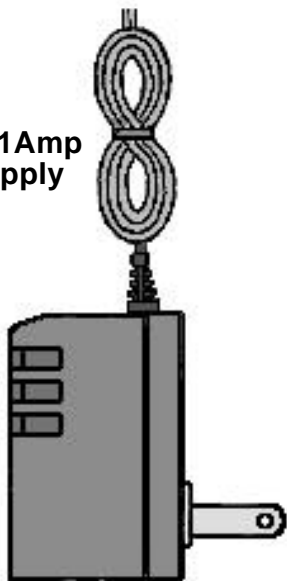
Sound Activated Delay Relay



Sound Activated Delay Relay Board allows you to control a 10A relay in response to sound from a non-amplified sound source (computer, CD player, or my Digital Sound Recorder board). Using A Time Resistor (X), the Relay will stay ON for X time once triggered then reset.

OPTIONAL EQUIPMENT

12VDC @ 1Amp Power Supply



Audio Speaker



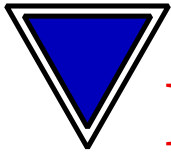
Audio "Y" Adapter



Custom Equipment, Unique Electronic Products

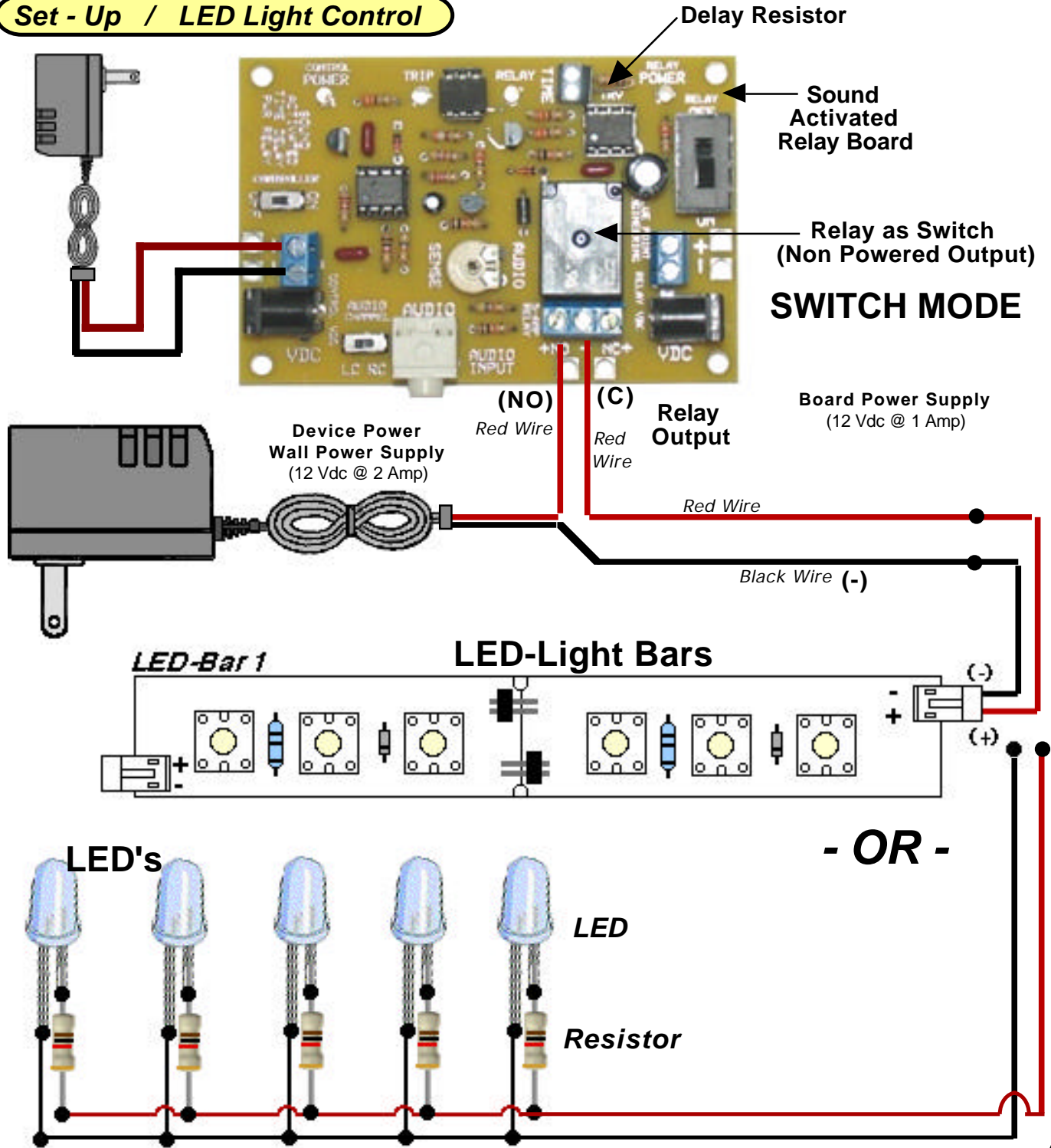
Blue Point Engineering Inc.

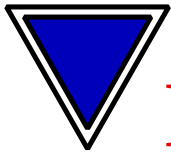
Phone (303) 651-3794
www.BPEsolutions.com



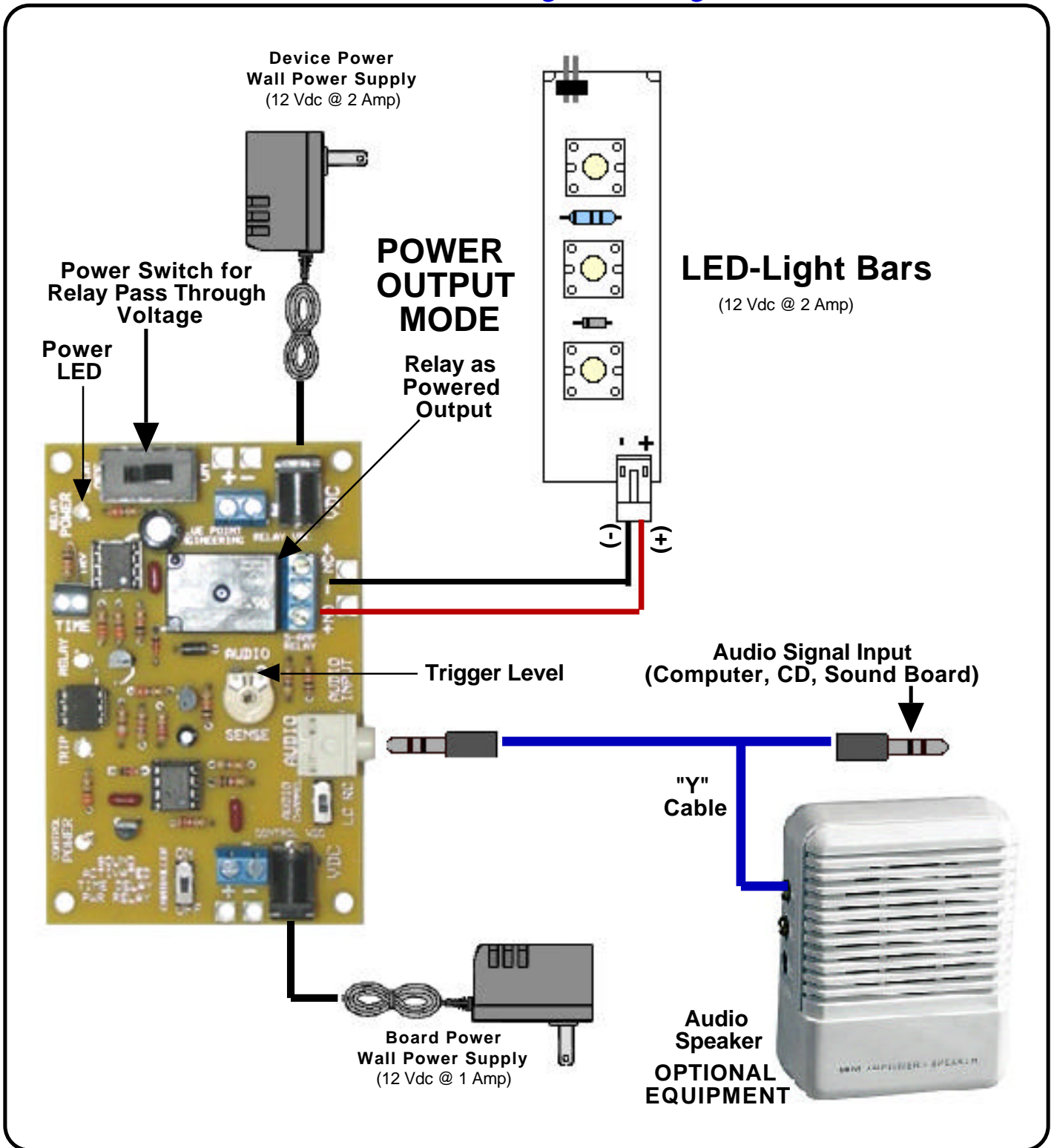
Controller to LED Output

Set - Up / LED Light Control





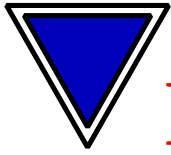
Sound Activated Delay Relay



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Sound Activated Delay Relay

When Audio triggered, this board will activate a mechanical relay for a specified period of time. This relay time ON is controlled by a "timing resistor" which is easily replaceable by the user. (See below for a table of resistor values and associated time delays) Time delays can range from less than a second to about 50 minutes.

An LED indicates when the NO (Normal Open) contacts of the relay are closed. (Switch ON)

An LED indicates when the Timing Delay is active,

The relay has Normally Open (NO) and Normally Closed (NC), Common (COM) terminal connections.

The board requires 12VDC for operation.

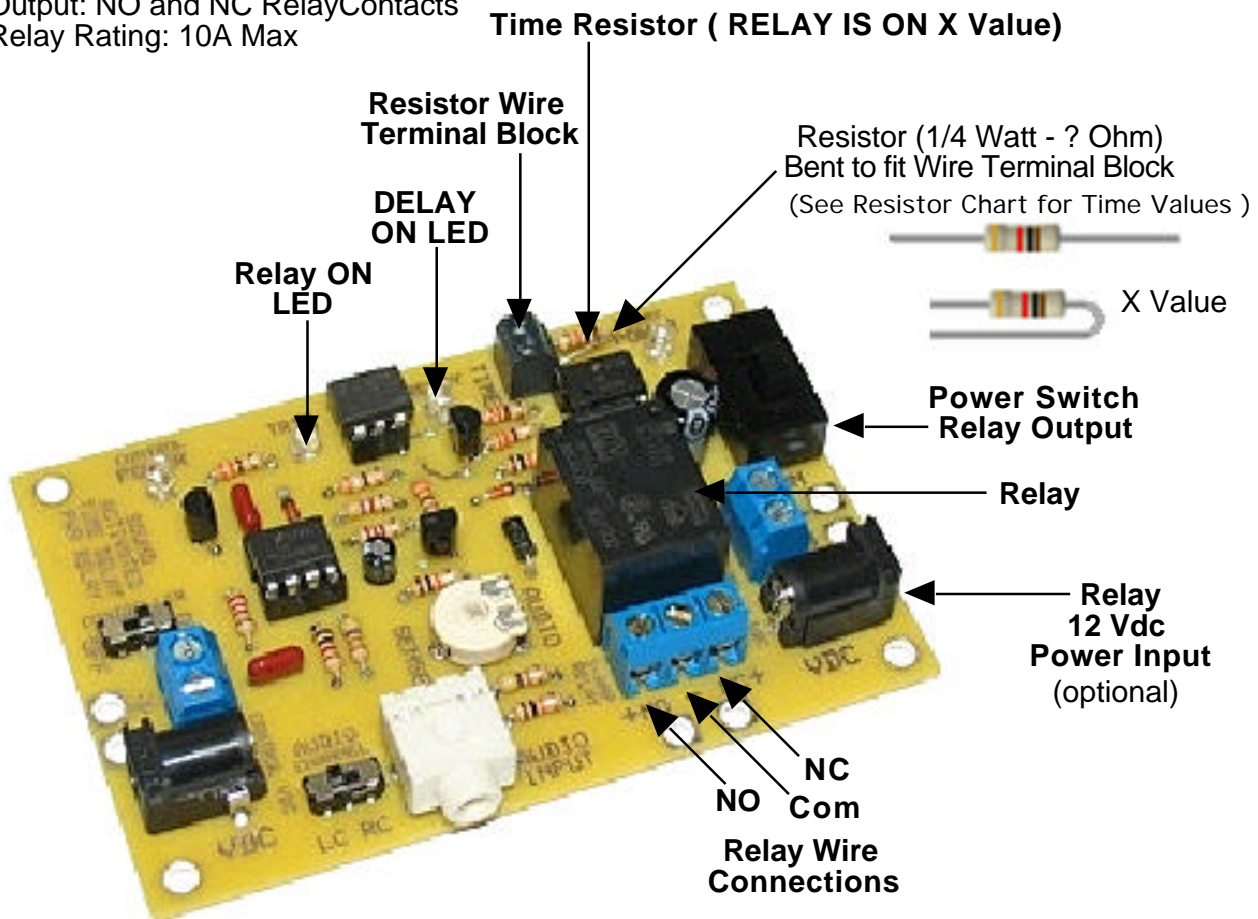
The Relay can be used as a Switch with (NO,COM,NC) contacts or as a Switch with Power pass through connection supply (Plus+ and Minus-).

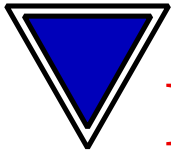
Miscellaneous Information:

- The relay activates as soon as the Audio Sound Input trigger occurs but timing begins as soon as audio triggered.

Specifications:

- Input Power: 12 VDC
- Output: NO and NC Relay Contacts
- Relay Rating: 10A Max





Sound Activated Delay Relay

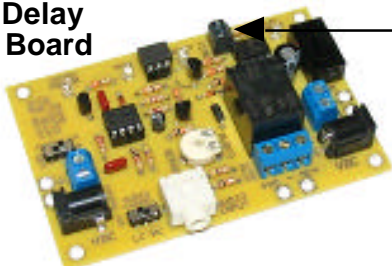
Resistor Values / Time Delay Chart

Resistor Values / Time Delay Chart



Resistor Value (K)	Seconds	+5%	-5%	Resistor Value (K-M)	Minutes	+5%	-5%
10 K	2.2	2.1	2.3	220 K	1.02	0.97	1.07
11 K	2.5	2.4	2.6	240 K	1.11	1.06	1.17
12 K	2.8	2.6	2.9	270 K	1.26	1.19	1.32
13 K	3.1	2.9	3.2	300 K	1.40	1.33	1.47
15 K	3.6	3.4	3.8	330 K	1.54	1.46	1.61
16 K	3.9	3.7	4.1	360 K	1.68	1.59	1.76
18 K	4.5	4.2	4.7	390 K	1.82	1.73	1.91
20 K	5.0	4.8	5.3	430 K	2.01	1.91	2.11
22 K	5.6	5.3	5.9	470 K	2.19	2.08	2.30
24 K	6.2	5.8	6.5	510 K	2.38	2.26	2.50
27 K	7.0	6.6	7.3	560 K	2.61	2.48	2.75
30 K	7.8	7.5	8.2	620 K	2.90	2.75	3.04
33 K	8.7	8.3	9.1	680 K	3.18	3.02	3.34
36 K	9.5	9.1	10.0	750 K	3.51	3.33	3.68
39 K	10.4	9.9	10.9	820 K	3.83	3.64	4.02
43 K	11.5	10.9	12.1	910 K	4.25	4.04	4.47
47 K	12.6	12.0	13.3	1.0 M	4.68	4.44	4.91
51 K	13.7	13.1	14.4	1.1 M	5.15	4.89	5.40
56 K	15.2	14.4	15.9	1.2 M	5.61	5.33	5.89
62 K	16.8	16.0	17.7	1.3 M	6.08	5.78	6.39
68 K	18.5	17.6	19.5	1.5 M	7.02	6.67	7.37
75 K	20.5	19.5	21.5	1.6 M	7.49	7.11	7.86
82 K	22.5	21.3	23.6	1.8 M	8.43	8.00	8.85
91 K	25.0	23.7	26.2	2.0 M	9.36	8.90	9.83
100 K	27.5	26.2	28.9	2.2 M	10.30	9.79	10.82
110 K	30.3	28.8	31.9	2.4 M	11.24	10.68	11.80
120 K	33.2	31.5	34.8	2.7 M	12.64	12.01	13.28
130 K	36.0	34.2	37.8	3.0 M	14.05	13.35	14.75
150 K	41.6	39.5	43.7	3.3 M	15.46	14.68	16.23
160 K	44.4	42.2	46.6	3.6 M	16.86	16.02	17.71
180 K	50.0	47.5	52.5	3.9 M	18.27	17.35	19.18
200 K	55.6	52.9	58.4	4.7 M	22.02	20.92	23.12
				5.1 M	23.89	22.70	25.09
				5.6 M	26.24	24.92	27.55
				6.2 M	29.05	27.60	30.50
				6.8 M	31.86	30.27	33.45
				7.5 M	35.14	33.38	36.90
				8.2 M	38.42	36.50	40.34
				9.1 M	42.64	40.51	44.77
				10.0 M	46.86	44.51	49.20

Time Delay Relay Board



Resistor

Time values are calculated and are approximate. You may have to experiment to get the exact time. Use 1/4 watt resistors – available at any electronics supply store (i.e., Radio Shack). The +/- 5% Values above show approximate range expected when using 5% resistors.