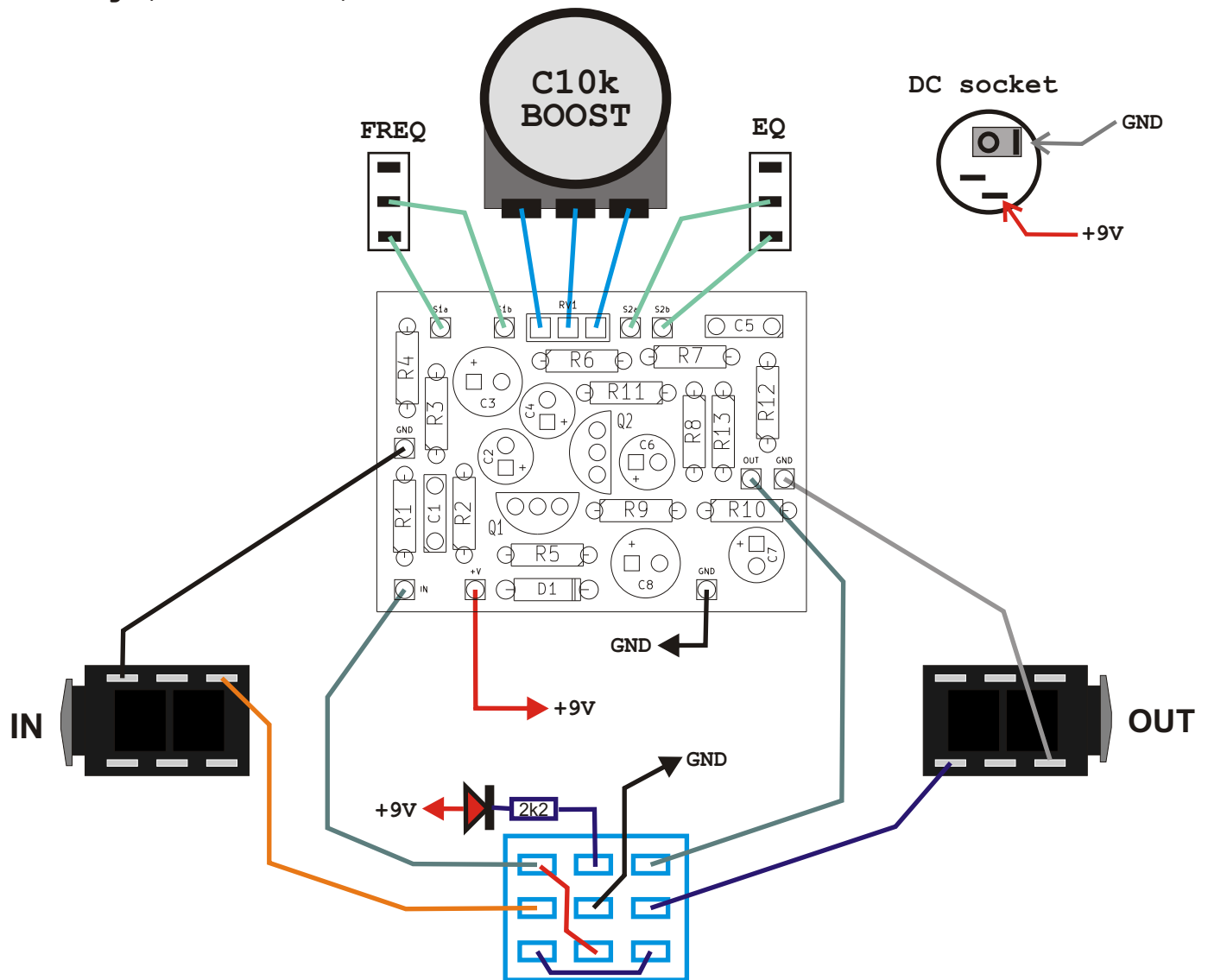


The diagram illustrates the component placement on a rectangular PCB. Key features include:

- Power Input Section (Left):** Features connectors for IN, GND, R1, C1, R2, and R3.
- Output Section (Right):** Includes connectors for OUT, GND, R12, R13, R8, R9, R10, and R11.
- Central Components:** A large central area contains RV1, Q1, Q2, C2, C3, C4, C5, C6, C7, C8, and several resistors (R4, R5, R6, R7).
- Bottom Section:** Contains D1, R5, R6, R7, R8, R9, R10, R11, R12, R13, and C5.
- Connectivity:** Numerous traces connect the components, showing a complex network of signal and power paths.

R1	1M	C1	47n
R2	33k	C2	10u
R3	1M	C3	100u
R4	4k7	C4	10u
R5	8k2	C5	3n3
R6	1k	C6	10u
R7	15k	C7	10u
R8	1M	C8	47u
R9	10k		
R10	10k	D1	4148
R11	10k	Q1	j201
R12	47k	Q2	2N5088
R13	100R		
RV1	C10k		

Wiring (bottom view):



Use metal enclosure connected to ground.

Power supply: 9V DC

Bill of materials:

Resistors:

100R	1pcs.	"R13"
1k	1pcs.	"R6"
2k2	1pcs.	"LED"
4k7	1pcs.	"R4"
8k2	1pcs.	"R5"
10k	3pcs.	"R9 R10 R11"
15k	1pcs.	"R7"
33k	1pcs.	"R2"
47k	1pcs.	"R12"
1M	3pcs.	"R1 R3 R8"

Potentiometers:

C10k	1pcs.	"RV1"
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Other:

Footswitch 3PDT	1pcs.
Knob	1pcs.
JACK socket	2pcs.
DC socket 5.5/2.1	1pcs.
MTS102 switch	2pcs.

Capacitors:

3n3	1pcs.	"C5"
47n	1pcs.	"C1"

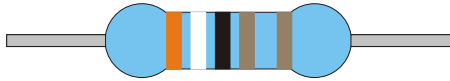
Electrolytic capacitors:

10u	4pcs.	"C2 C4 C6 C7"
47u	1pcs.	"C8"
100u	1pcs.	"C3"

Semiconductors:

4148	1pcs.	"D1"
j201	1pcs.	"Q1"
2N5088	1pcs.	"Q2"
LED	1pcs.	

Resistor color code:



$$390 \times 10\Omega = 3,9k\Omega$$

Color	Band 1	Band 2	Band 3	Multiplier	Tolerance
Black	0	0	0	1 Ω	
Brown	1	1	1	10 Ω	1%
Red	2	2	2	100 Ω	2%
Orange	3	3	3	1k Ω	
Yellow	4	4	4	10 k Ω	
Green	5	5	5	100 k Ω	0,5%
Blue	6	6	6	1 M Ω	0,25%
Purple	7	7	7	10 M Ω	0,1%
Gray	8	8	8	100 M Ω	0,05%
White	9	9	9	1 G Ω	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

$$\begin{aligned}
 471 &= 47 \times 10^1 \text{ pF} = 470 \text{ pF} \\
 472 &= 47 \times 10^2 \text{ pF} = 4700 \text{ pF} = 4,7 \text{ nF} \\
 473 &= 47 \times 10^3 \text{ pF} = 47000 \text{ pF} = 47 \text{ nF} \\
 474 &= 47 \times 10^4 \text{ pF} = 470000 \text{ pF} = 470 \text{ nF}
 \end{aligned}$$

$$\begin{aligned}
 100 \text{ pF} &= 100 \text{ p} = 100 = 101 \\
 220 \text{ pF} &= 220 \text{ p} = 220 = 221 \\
 4,7 \text{ nF} &= 4 \text{ n}7 = 0.0047 = 472 \\
 10 \text{ nF} &= 10 \text{ n} = 0.01 = 103 \\
 100 \text{ nF} &= 100 \text{ n} = 0.1 = 104 \\
 220 \text{ nF} &= 220 \text{ n} = 0.22 = 224 \\
 470 \text{ nF} &= 470 \text{ n} = 0.47 = 474 \\
 1000 \text{ nF} &= 1 \mu \text{F} = 1 \mu = 105
 \end{aligned}$$