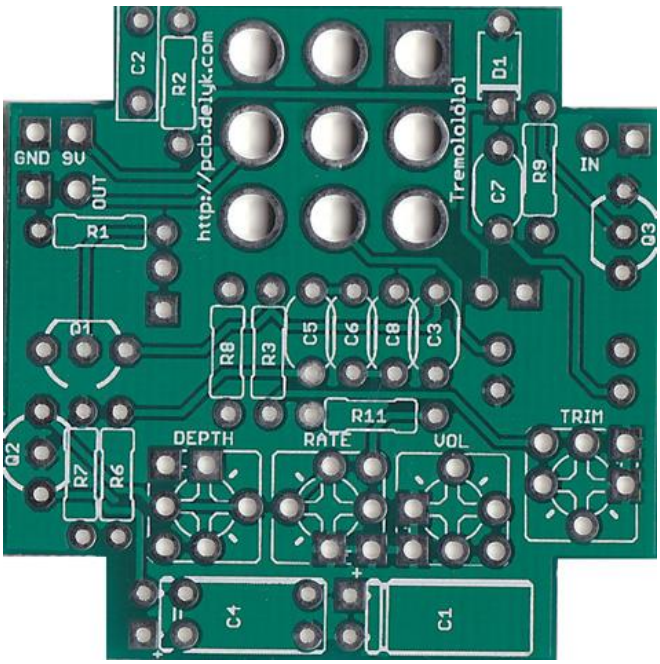

Tremolololol

Build Document

Introduction

A tremolo in a tiny enclosure.

Bill of Materials

Resistors

P/N	Value	Notes
R1	1M	
R2	1M	
R3	4k7	
R4	180R	
R5	1k2	
R6	120k	
R7	68k	
R8	10k	CLR for the rate LED
R9	2M2	
R10	15k	
R11	1k	
CLR	6k8	CLR for the power LED

Diodes

I obtained all of my diodes from Tayda. That's what the layout was setup for.

P/N	Value	Notes
D1	1N400x	Polarity protection.
D2	LED	Rate LED

Capacitors

I obtained all of my caps from Tayda. That's what the layout was setup for.

P/N	Value	Type	Notes
C1	47u	Aluminum Electrolytic	
C2	100n	Film Box	
C3	470n	MLCC	
C4	22u	Aluminum Electrolytic	
C5	470n	MLCC	
C6	1u	MLCC	
C7	1u	MLCC	
C8	1u	MLCC	

Transistors

P/N	Value	Notes
Q1	BS170	
Q2	2N5457	
Q3	2N5088	

Potentiometers

I obtained all of my potentiometers from Tayda. That's what the layout was setup for.

P/N	Value	Notes
DEPTH	250k	Trimpot.
RATE	100k	Trimpot.
TRIM	100k	Trimpot.
VOL	100k	Trimpot.

Switches

I obtained all of my switches from Tayda. That's what the layout was setup for.

P/N	Value	Notes
SW1	3PDT	Footswitch

Modifications

When I built mine, I felt as though the depth wasn't enough. Some people recommend omitting R8 and D2. I didn't get a chance to try this.

Build Notes

The TRIM pot is used to adjust the voltage to Q1. The best way to bias this is to adjust by ear until you find a sweet spot.

Schematic