

BOB BASS

MMTMM

 github.com/machine-hum/mmtmm

WHO AM I?

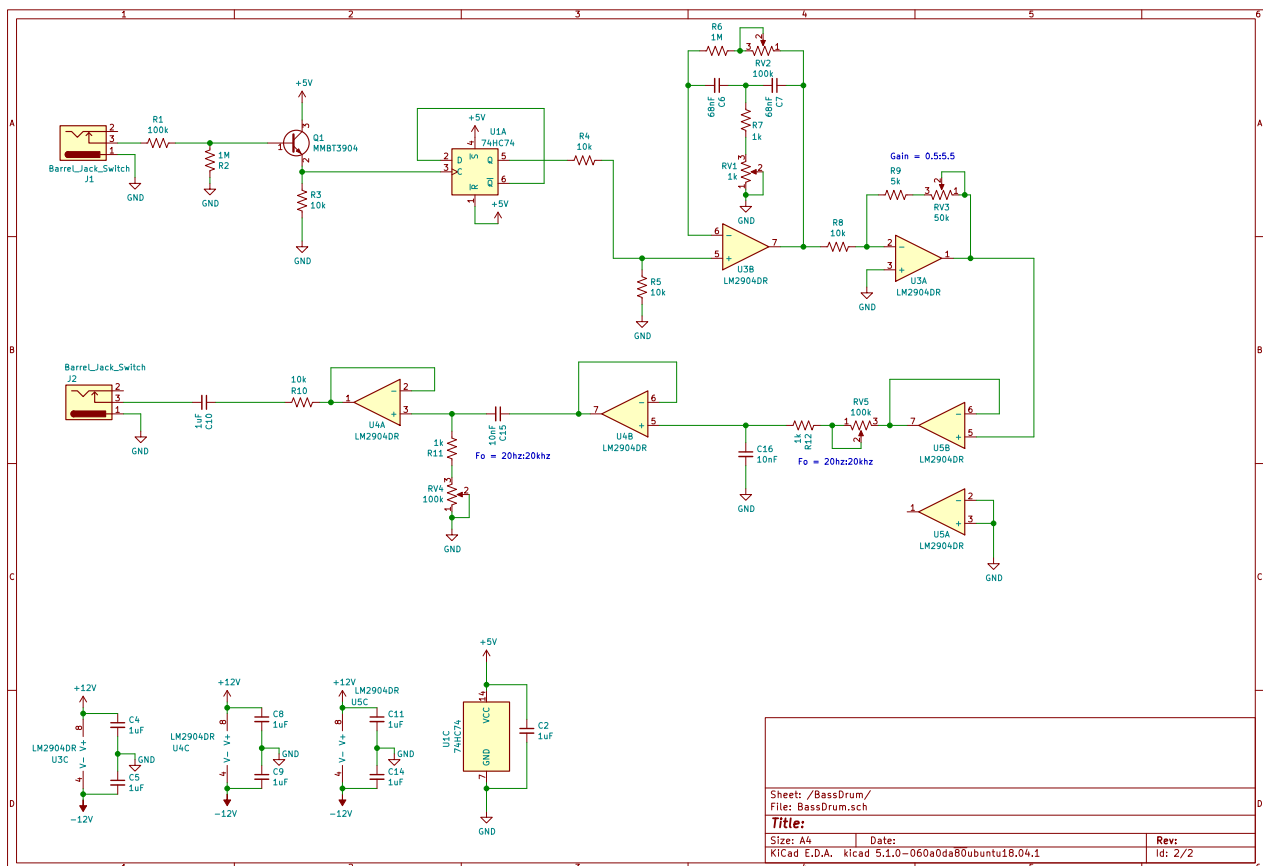
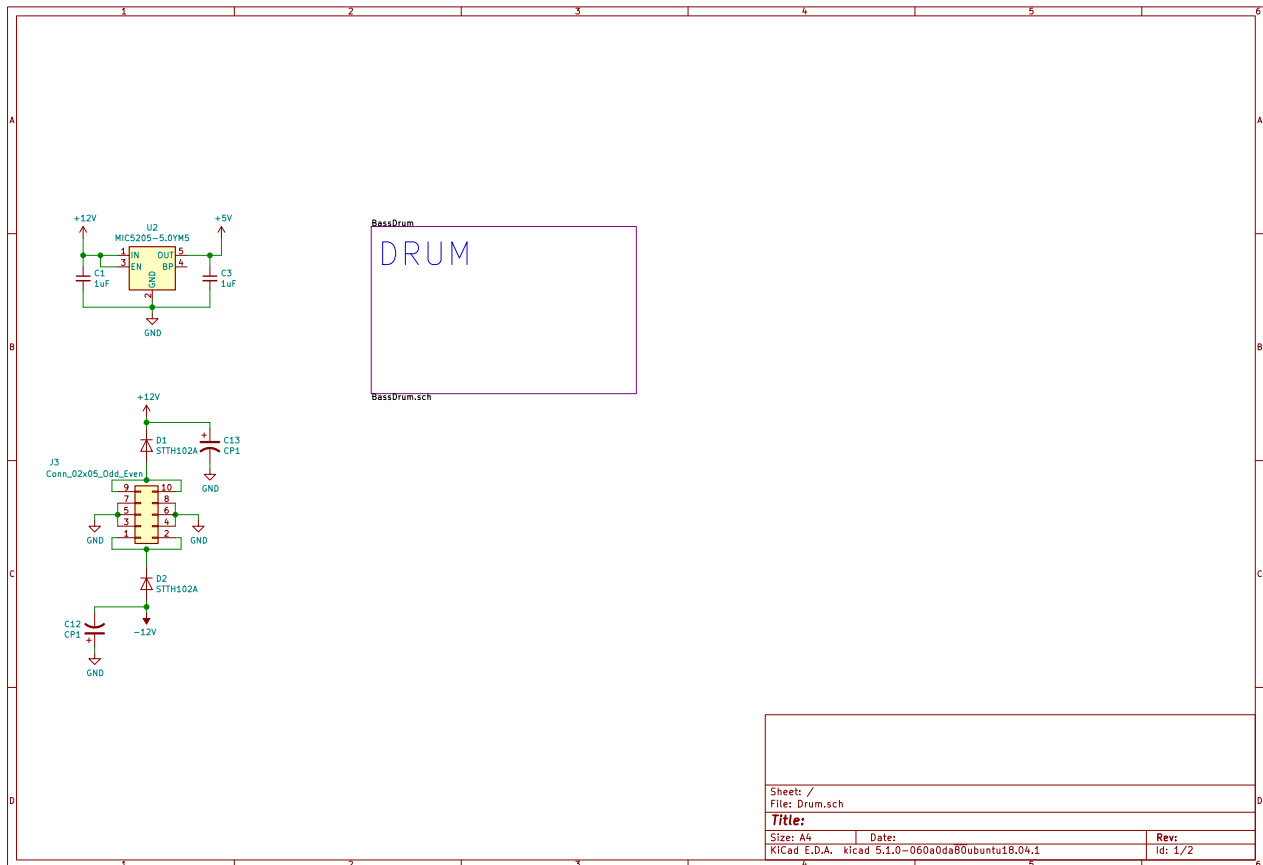
The BOB BASS is a 100% open source drum modules inspired from the 808 Bass drum. It features the same drum core as the 808 and various other features, such as filters, tuning and an **overdrive**.

GETTING STARTED

The BOB BASS requires power. Then post a picture, then outline what all the knobs do and what to plug into.



SCHEMATIC



TRANSFER FUNCTION FOR DRUM CORE

Equation 1 is the transfer function for the drum, while Equation 2 is the standard form.

$$G(s) = \frac{\frac{-s}{R_7 C_1}}{s^2 + \frac{s}{R_6} \left(\frac{1}{C_1} + \frac{1}{C_2} \right) + \frac{1}{R_6 R_7 C_1 C_2}} \quad (1)$$

$$G(s) = \frac{k \cdot w_n^2}{s^2 + 2\zeta w_n s + w_n^2} \quad (2)$$

$$w_n = \frac{1}{\sqrt{R_6 R_7 C_1 C_2}} \quad (3)$$

This formula came from the internet... Figure out how to get it from the TF.

$$\zeta = \frac{\sqrt{\frac{C_1}{C_2}} + \sqrt{\frac{C_2}{C_1}}}{\sqrt{\frac{R_6}{R_7}}} \quad (4)$$