

SUBJECT TO CHANGE / FOR REVIEW:

- Pull-Down Resistors in beat buttons
- 47kOhm voltage divider for oscillator
- Lower channel LED driver
- Lower channel button multiplexer

Available digital pins:
- 9 on MCU
Needed digital pins:
- 8 on MCU
(For unconnected pins)

B1-USER is used as stop/start button in prototype

TO BE CONNECTED

On/Off Beat Buttons & Respective LEDs

$R = 39.06 / I_{max}$
(With I_{max} per 1 LED) (Resistor going into LED driver)

INSTURMENT SELECTOR
(for each possible hex combo, common terminals are connected to pins 1-4 corresponding to first 4 bits of hex code. Total of 16 possible combinations)

TO BE CONNECTED

1/5 input V Peak-To-Peak

Oscillator V1 (Simple CMOS Inverter)
- Capacitor and Resistor specs on inverter subject to change based on sound requirements