

DESIGN NOTE:

- MOSFETs are used for power saving.
- Variable Resistors are used for sensitivity and output adjustment.
- 1C Op-Amp is used as a voltage comparator.
- IR Sensor 5 removed due to physical size limitations of PCB.

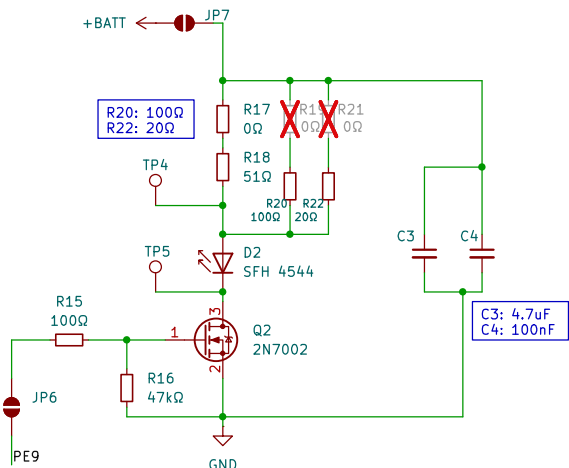
HEADER

IR EMITTER

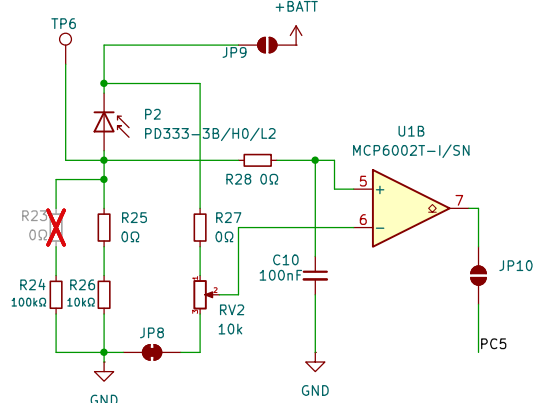
IR RECEIVER

IR Sensor 1

Notes

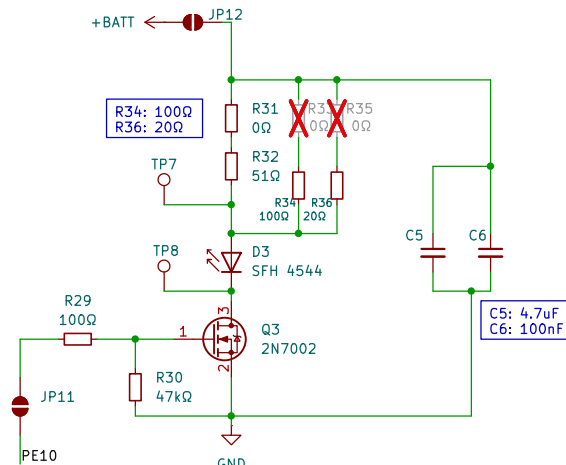


IR EMITTER

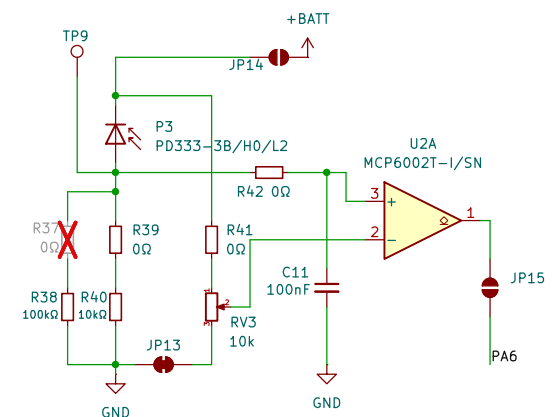


IR RECEIVER

IR Sensor 2

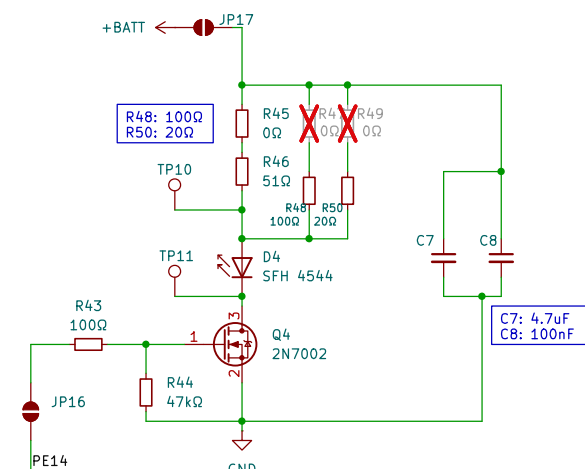


IR EMITTER

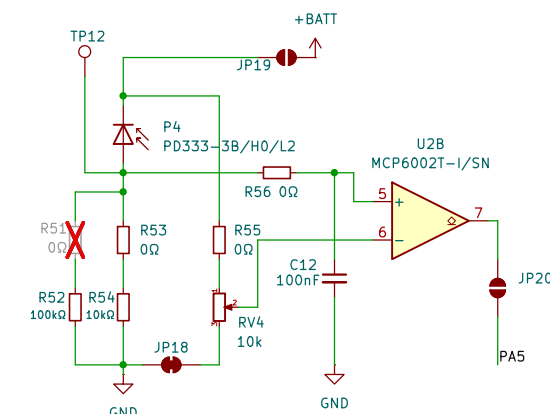


IR RECEIVER

IR Sensor 3



IR EMITTER

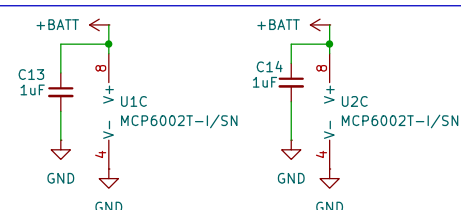


IR RECEIVER

IR Sensor 4

NOT AVAILABLE

IR Sensor 5



POWER MANAGEMENT

NONE

Unused Componets

By Anh Duy Nguyen, NGYANH002

By Anh Duy Nguyen,
For EEE3088F, 2024

Date Modified: 21 April 2024

University of Cape Town

Sheet: /
File: MicroMouse_Sensor_Final_rev1.kicad_sch

Title: Micromouse IR Sensor [Amathuba Submission]

Size: A3 Date: 2024-04-21

Size: AJ	
KiCad E.D.A. 8.0.1	

Rev: v6.1

Id: 1/1