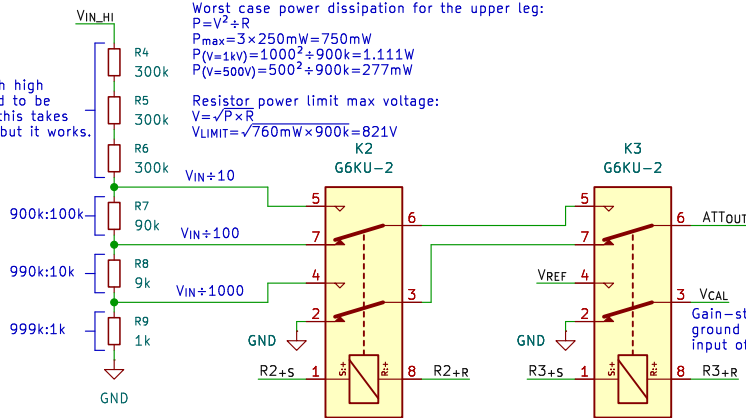
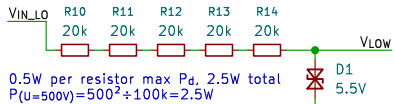


# Attenuation & Amplification

900k resistors with high voltage rating tend to be rather expensive, this takes a bit more space but it works.

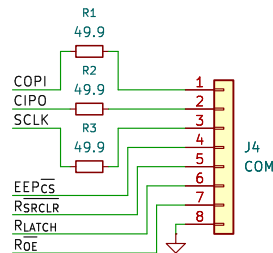
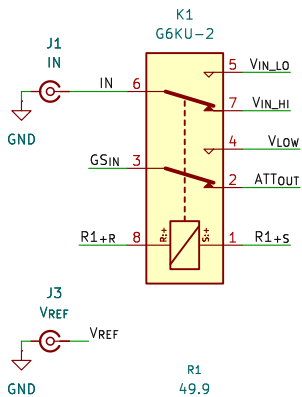


If a high voltage is applied to the LV input, the resistors limit the current so that the downstream parts don't get damaged.

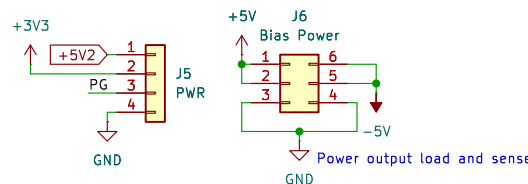


Use thin-film or bulk metal foil resistors for lower noise. Picking the input impedance for the low-voltage input is a trade-off between noise-floor and input protection.

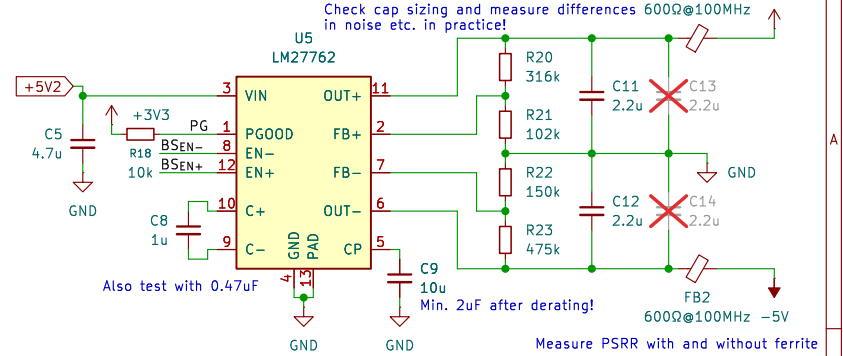
# Analog & Digital I/O



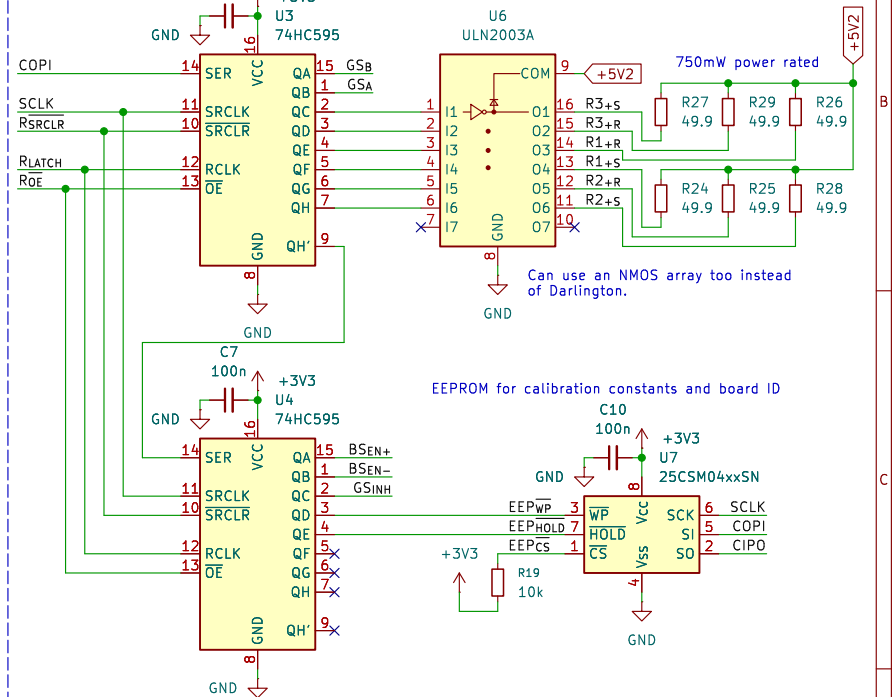
Maybe add a buffer? It's not high-speed so it should be fine.



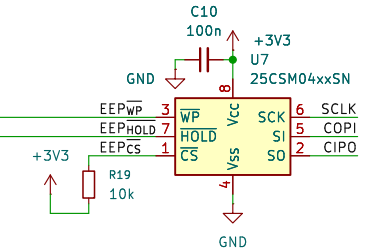
# Charge-Pump ±5V w/ LDO



# Relay Driver GPIO EEPROM



# EEPROM for calibration constants and board ID



Sheet: /  
 File: attenuator-amplifier.kicad\_sch

# Title:

Size: A4  
 KiCad E.D.A. 9.0.3

Date:

Rev:  
 Id: 1/1