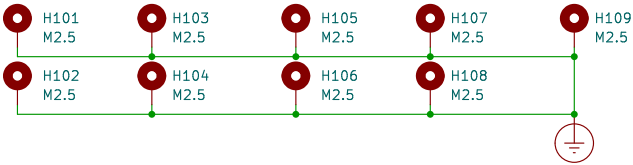
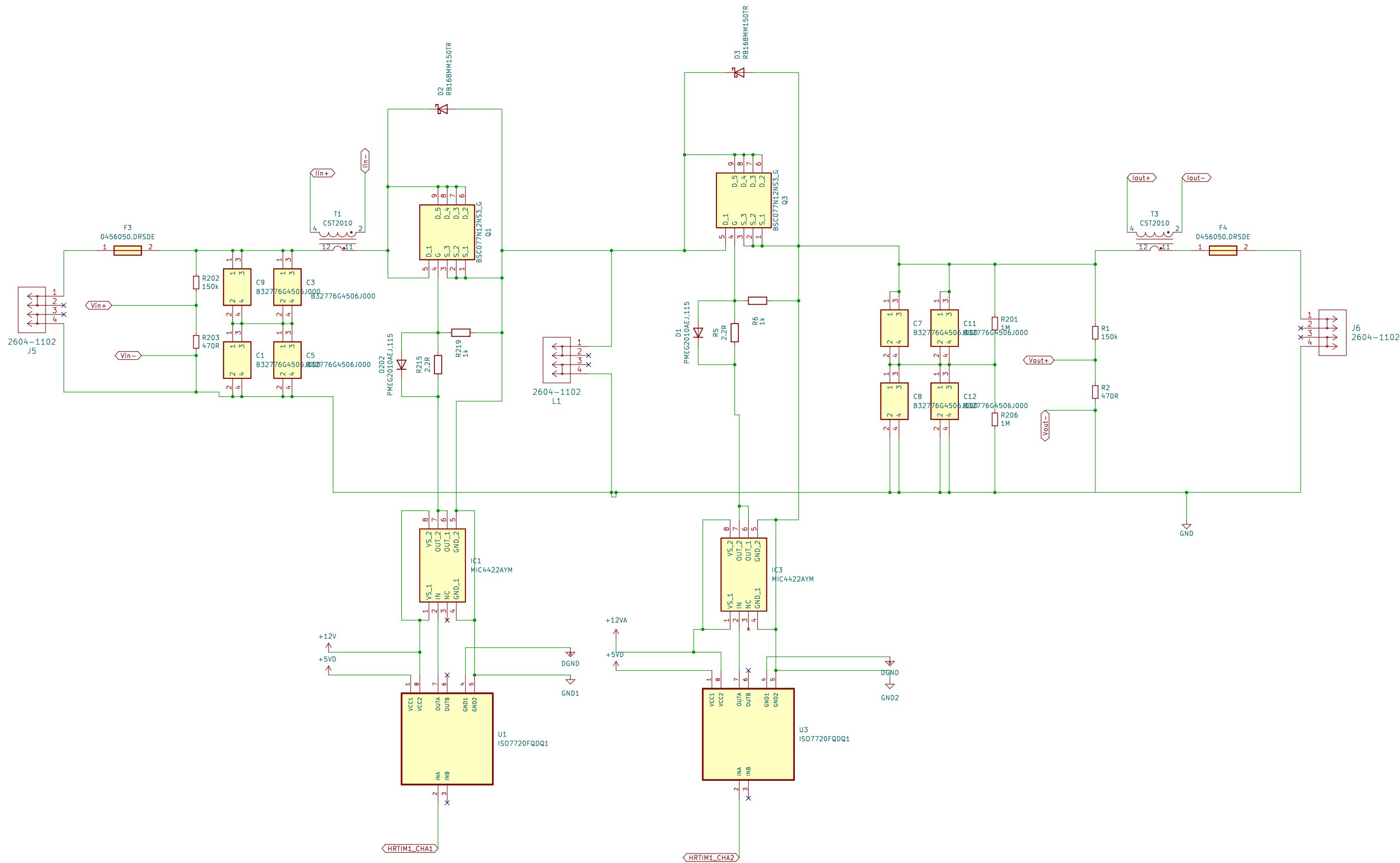
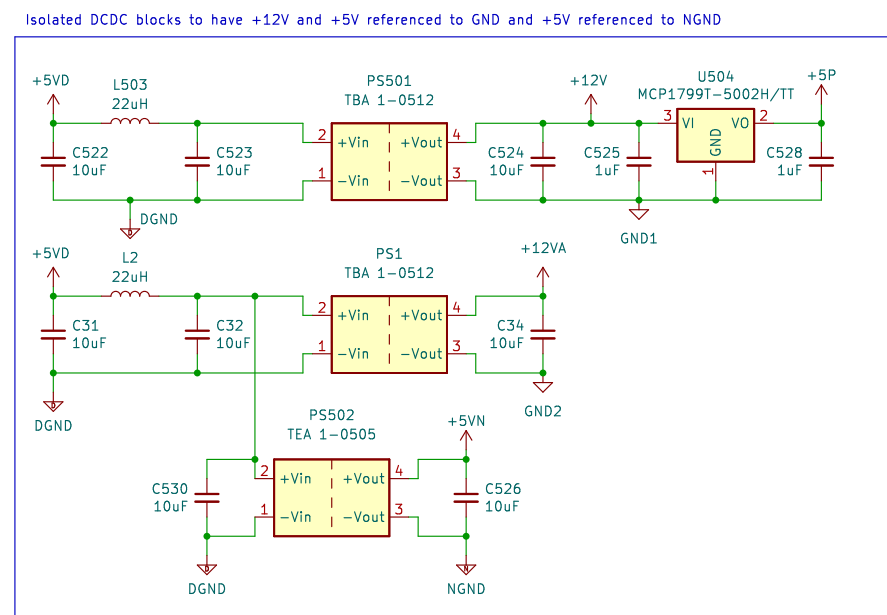
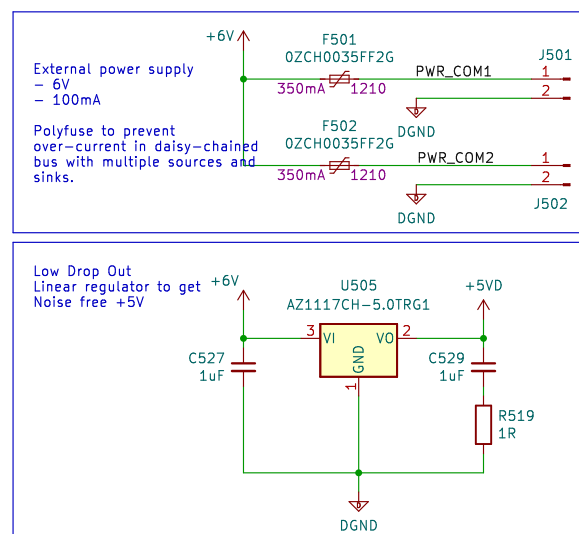
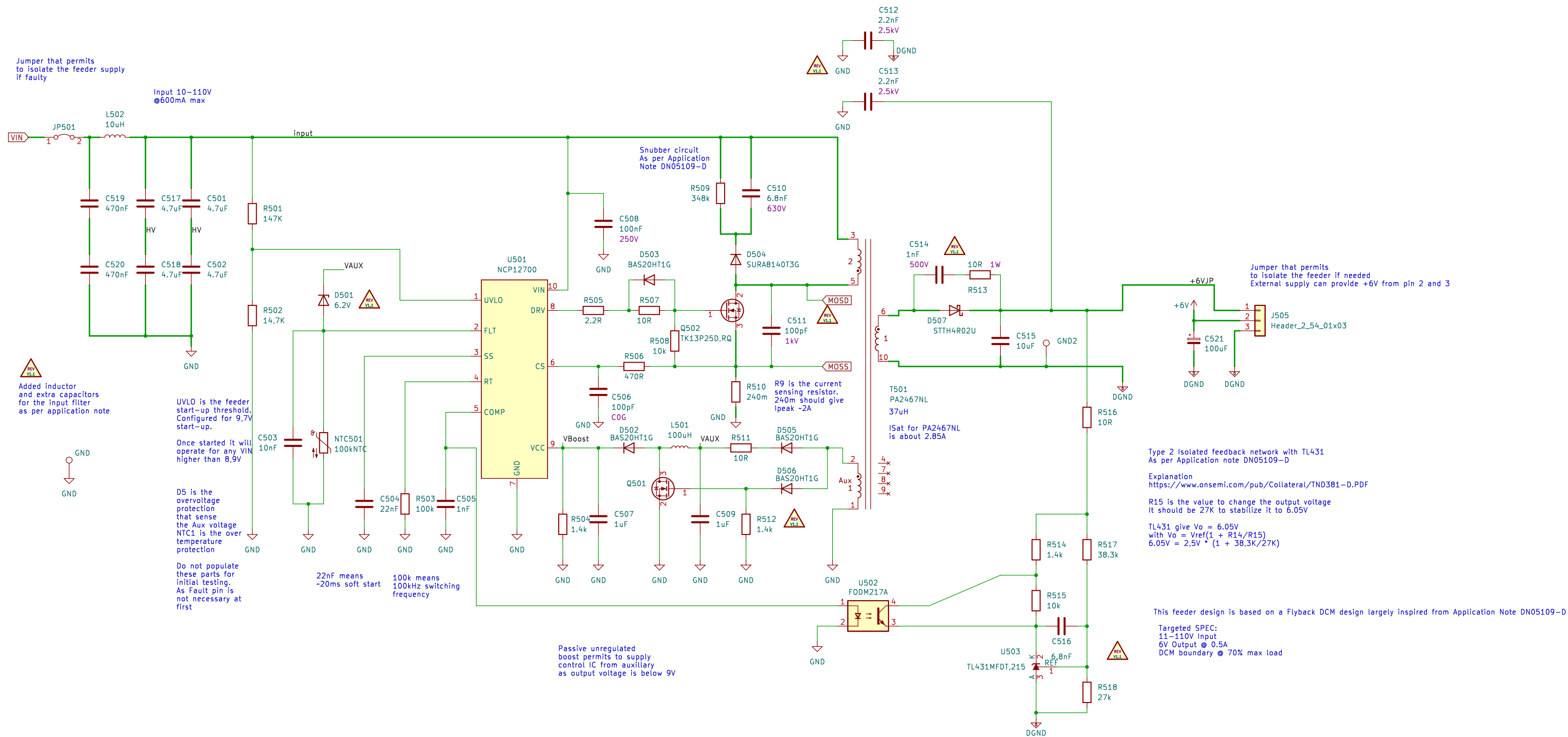


All ceramic capacitor X7R 50V unless specified  
All resistor to be thin film 1/8Watt unless specified

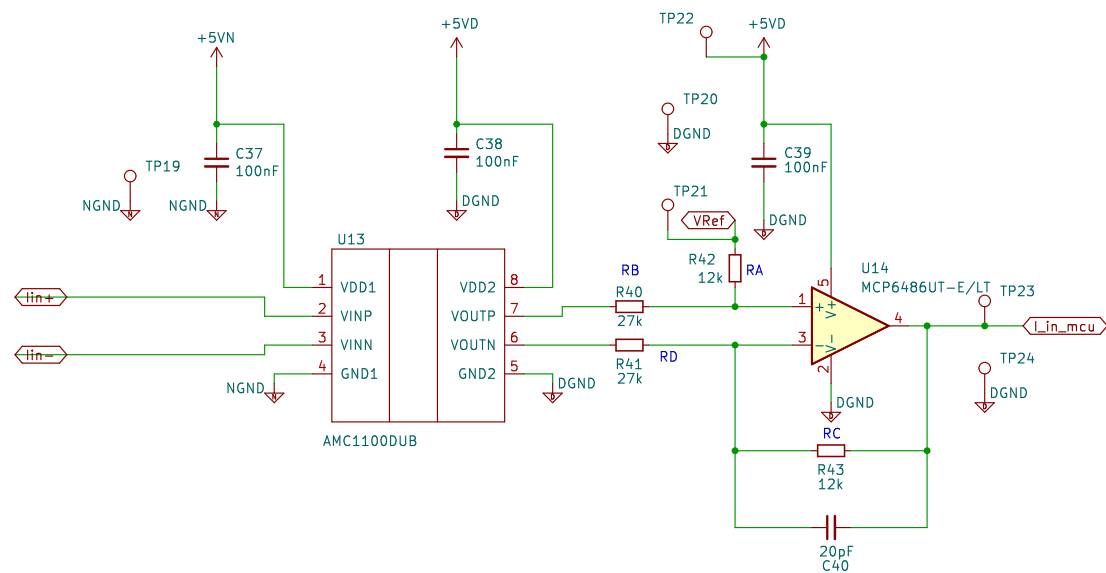
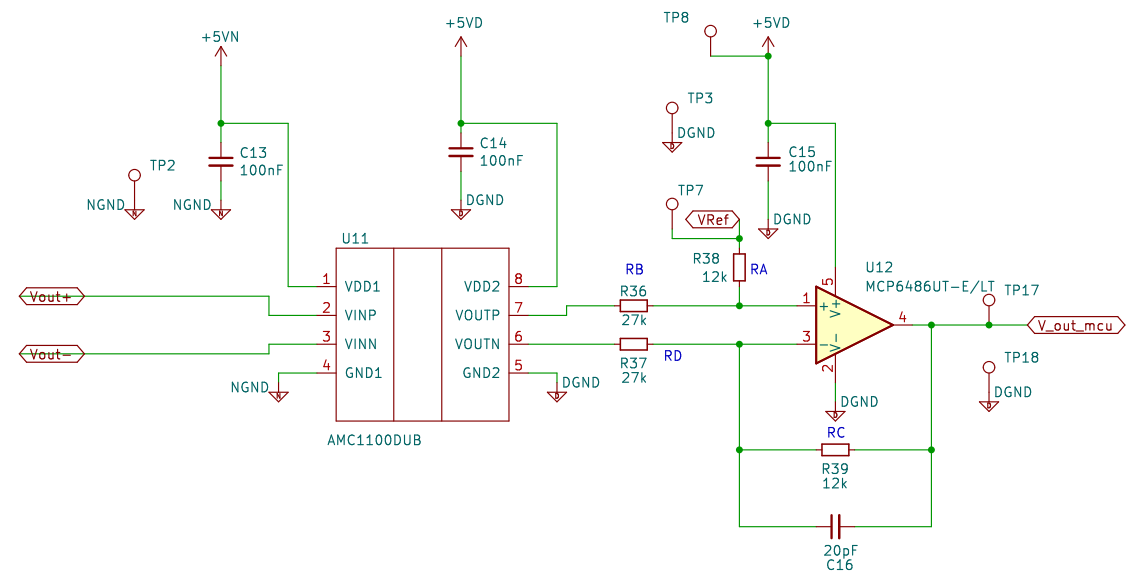
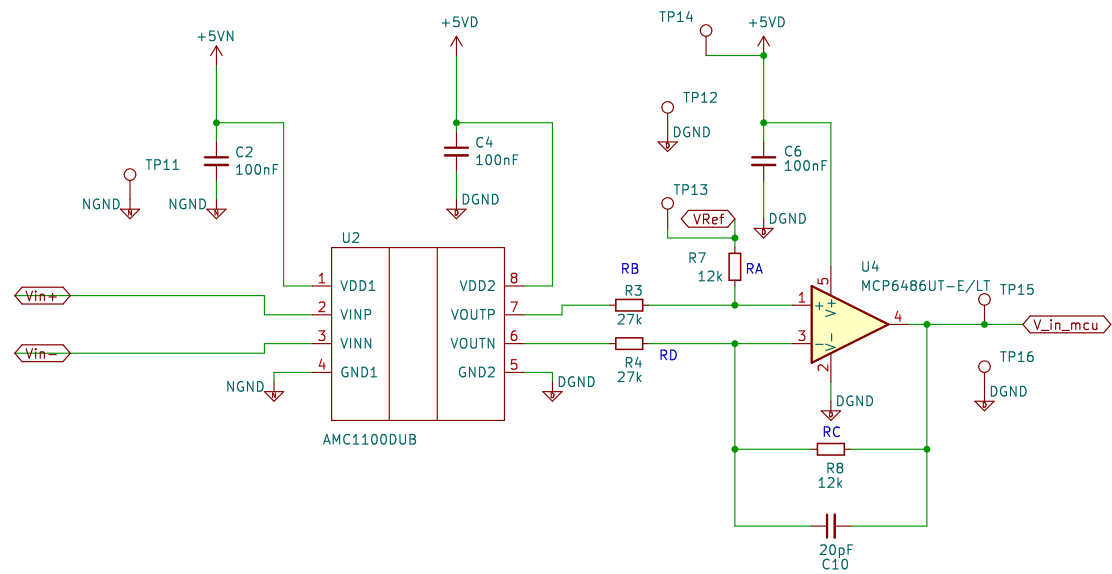
Mechanical housing  
and heatsink holes







- Communication link encompasses
  - Analog bus
  - CAN bus
  - HRTIM sync
  - RS485 20Mbps bus



#### Low Side Voltage Measurement

Simulation available  
<https://tinyurl.com/2enzfg8c>

Circuit can be seen as non-inverting opamp  
 with gain :  $G = 1 + (RC/RD)$  and a potential on non-inverting  
 input equal to Millman's theorem of :  
 $V+ = ((VOUTP - VOUTN)/RB) + (Vref/RA) / ((1/RB) + (1/RA))$

Measurements are thought for STM32G474RE  
 with either internal reference set to 2.048V (from VREFBUF register) or equivalent external voltage reference.

