

RFET\_EN1 RFET\_OUT1D RFET\_OUT1

RFET\_EN2 RFET\_OUT2D RFET\_OUT2

RFET\_EN3 RFET\_OUT3D RFET\_OUT3

RFET\_EN4 RFET\_OUT4D RFET\_OUT4

TEMP\_SENSE\_1D TEMP\_SENSE\_1

Diagram of a J102 breakout board. The board has 8 pins. The left side has 4 pins labeled 1, 3, 5, and 7, connected to RFET\_EN1, RFET\_EN2, RFET\_EN3, and RFET\_EN4 respectively. The right side has 4 pins labeled 2, 4, 6, and 8, connected to RFET\_OUT1, RFET\_OUT2, RFET\_OUT3, and RFET\_OUT4 respectively. The board is labeled 'J102' at the top and 'Breakout' at the bottom.

--

3-Pin Programming via Main Header:  
 1 - PROG\_DBG\_1 -> ST-SWDIO  
 2 - PROG\_DBG\_2 -> ST-SWCLK  
 3 - PROG\_DBG\_3 -> ST-RST

GND is labelled as GND\_SYS pin in ICD

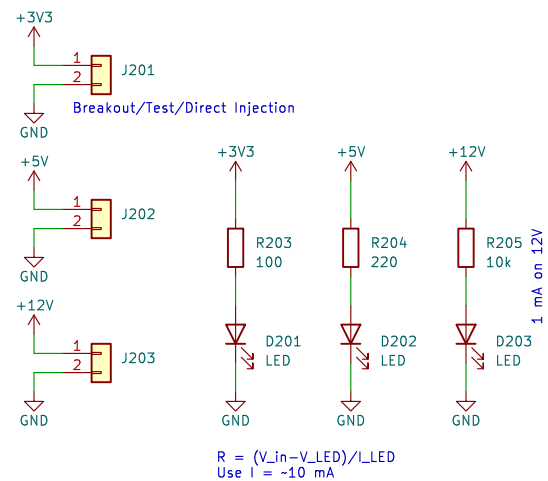
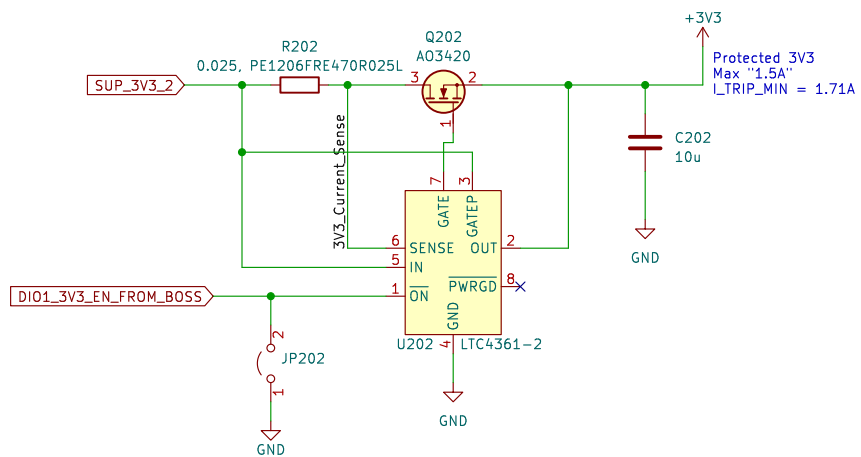
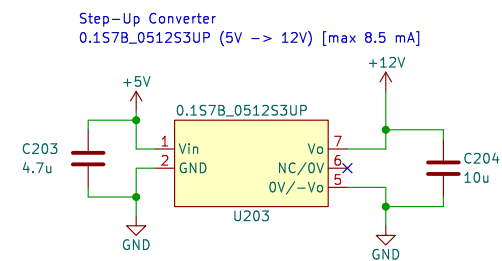
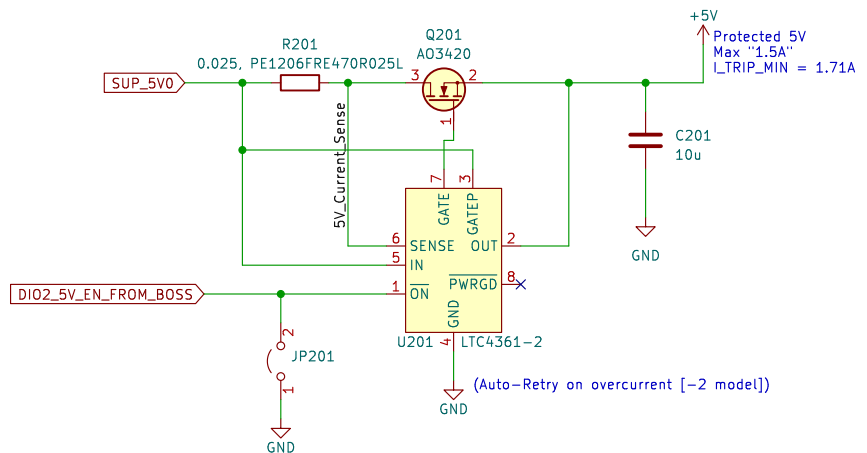
BOSS is on USART2

Use SUP\_3V3\_2 as main power, per ICD

LPC-50M2LG

Select one of these on Digikey  
 NRPN252PARN-RC or LPC-50M2LG (2mm pitch)

Rev:  
Id: 1/4



Sheet: /PowerSheet/  
File: PowerSheet.kicad\_sch

**Title:**

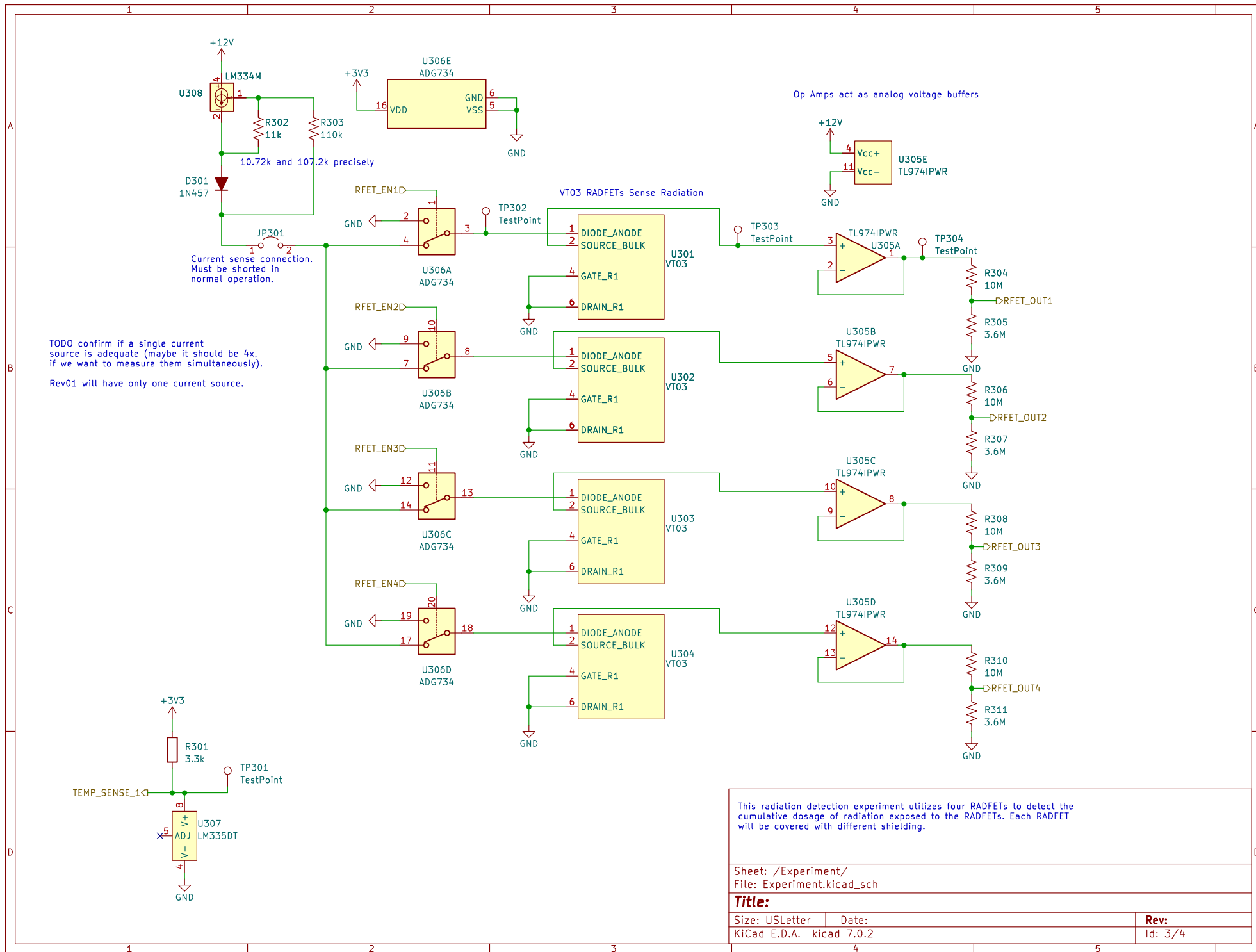
Size: USLetter

Date:

KiCad E.D.A. kicad 7.0.2

**Rev:**

Id: 2/4



This radiation detection experiment utilizes four RADFETs to detect the cumulative dosage of radiation exposed to the RADFETs. Each RADFET will be covered with different shielding.

Sheet: /Experiment/  
File: Experiment.kicad\_sch

**Title:**

Size: USLetter    Date:  
KiCad E.D.A.    kicad 7.0.2

**Rev:**  
Id: 3/4

