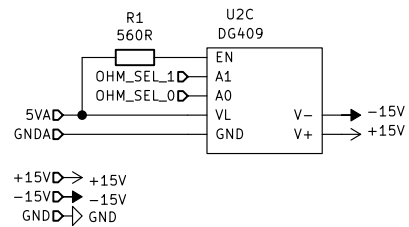


Both opamps should be replaced by something at least remotely modern, perhaps like AD706 or OPA192



Multimeter JM1 – Ohm measurement current sources

Sheet: /OHM_SRC/
 File: OHM_SRC.sch

Title:

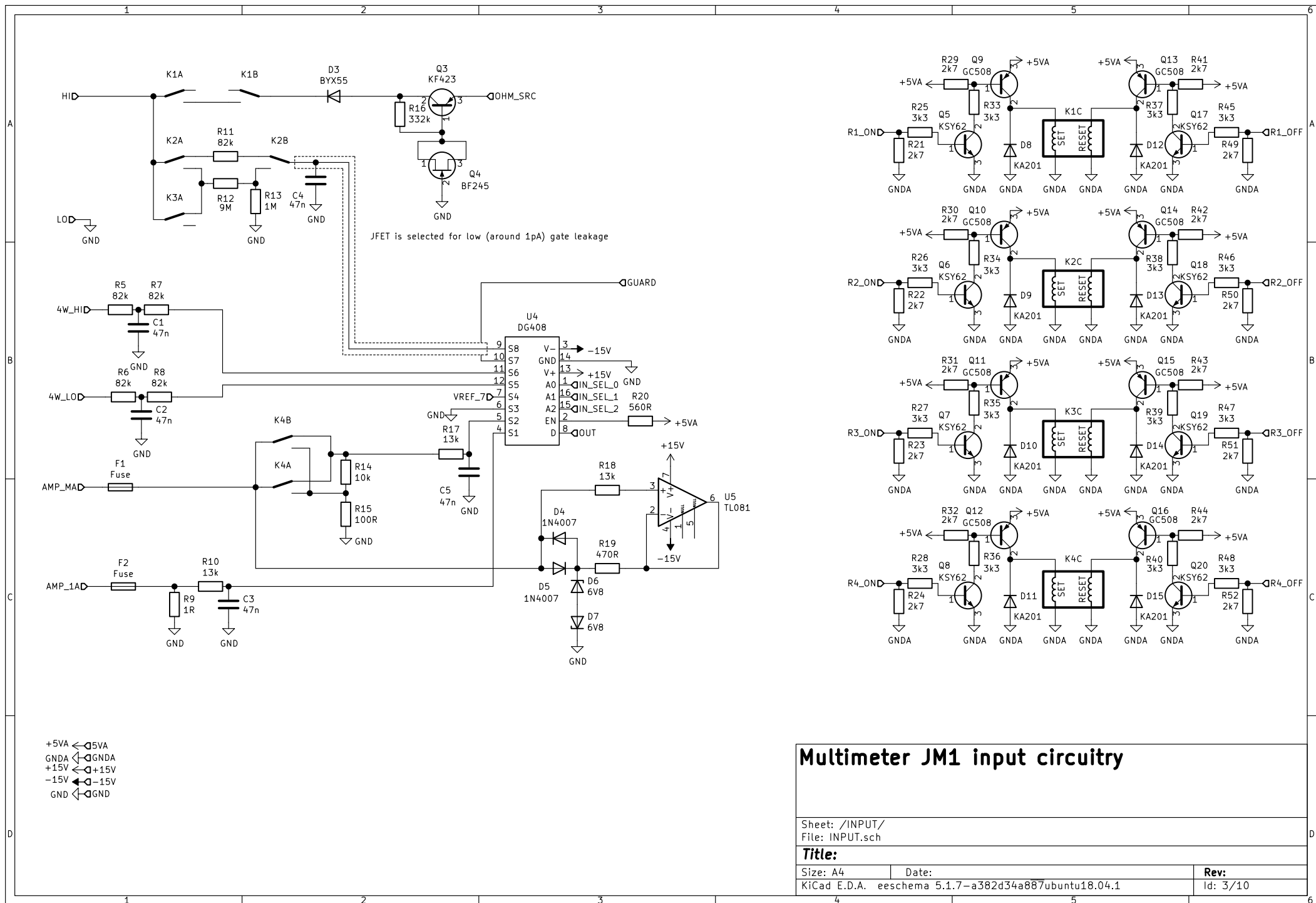
Size: A4

Date:

Rev:

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Multimeter JM1 input circuitry

Sheet: /INPUT/
File: INPUT.sch

Title:

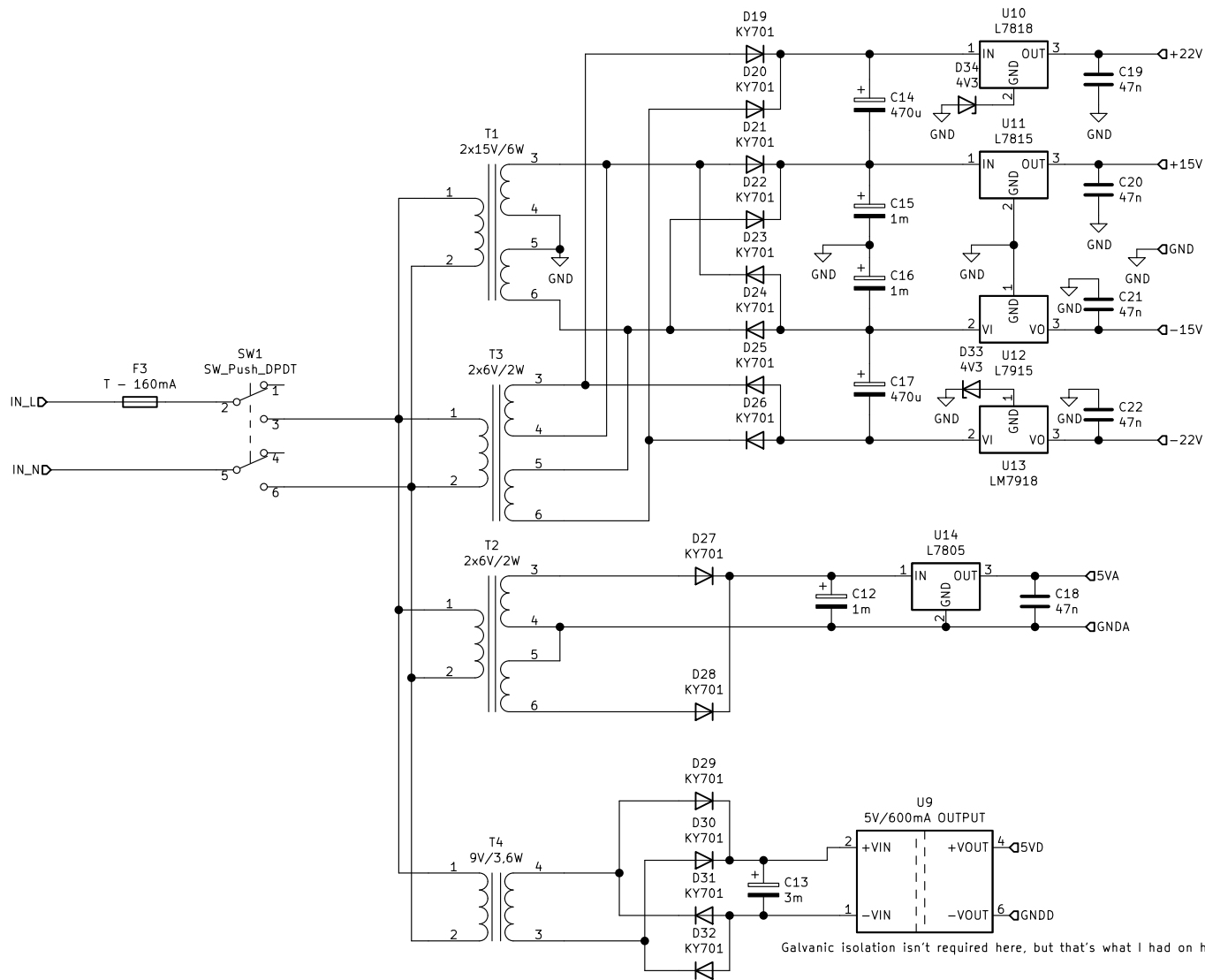
Size: A4

Date:

KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Rev:

Id: 3/10



+22V, +15V, 5VA are powering floating analog section of multimeter. Separated from 5VD powering grounded digital portion of the device.

Galvanic isolation isn't required here, but that's what I had on hand

Multimeter JM1 power supply

Sheet: /POWER/
File: POWER.sch

Title:

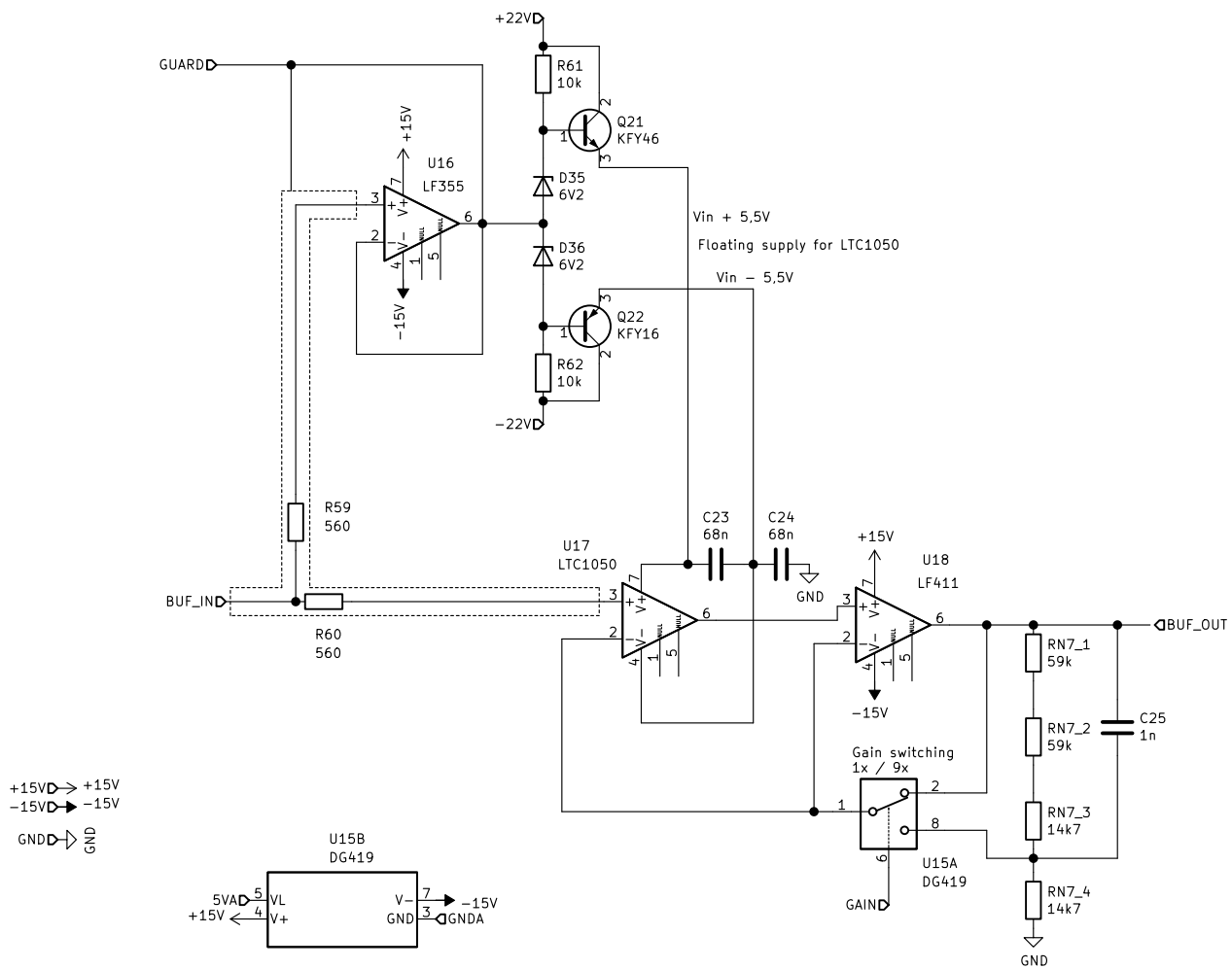
Size: A4

Date:

KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Rev:

Id: 5/10



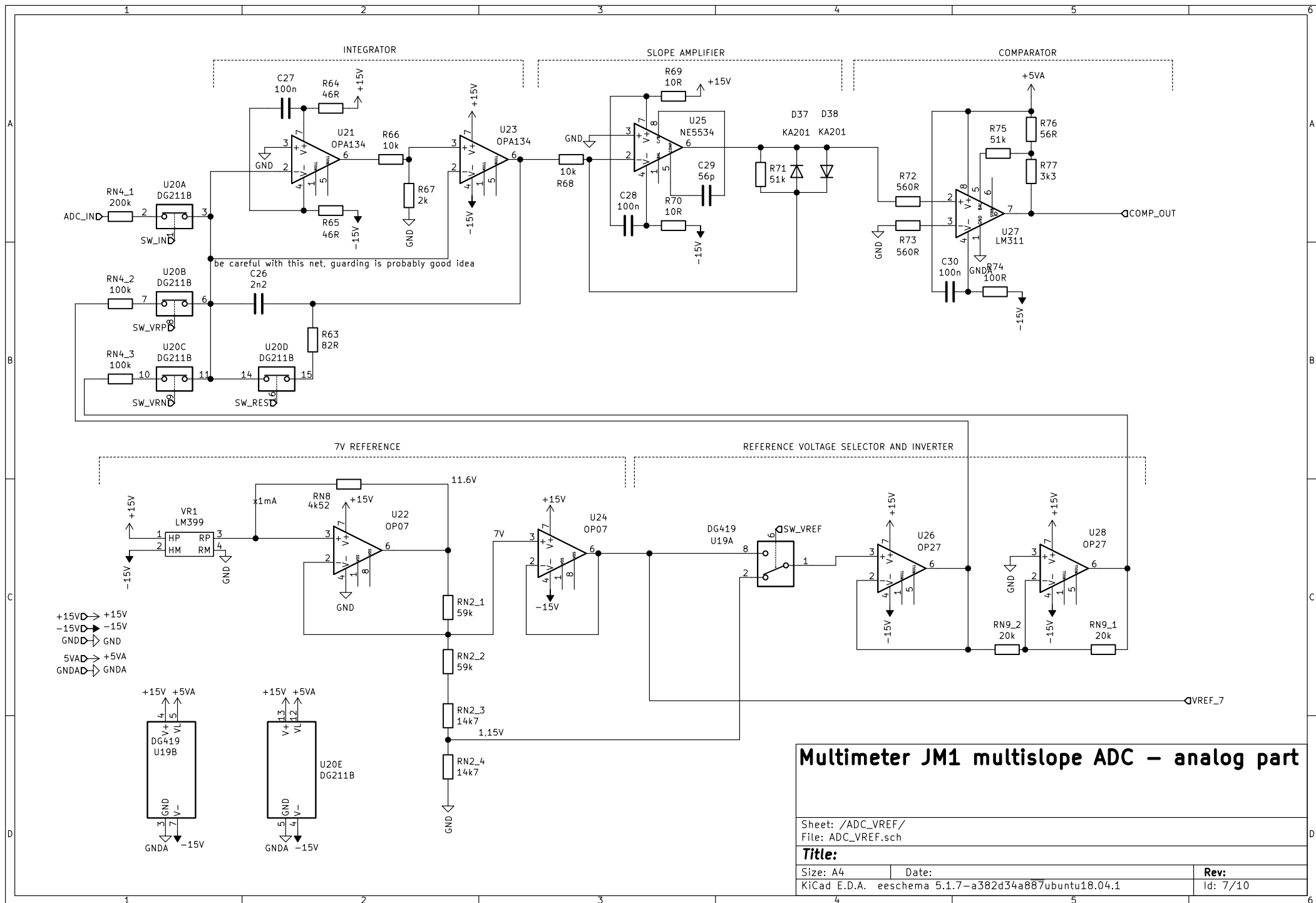
Multimeter JM1 Input buffer/amplifier

Sheet: /BUFFER_AMP/
File: BUFFER.sch

Title:

Size: A4
KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Date:
Rev: Id: 6/10



Multimeter JM1 multislope ADC – analog part

Sheet: /ADC_VREF/
File: ADC_VREF.sch

Title:

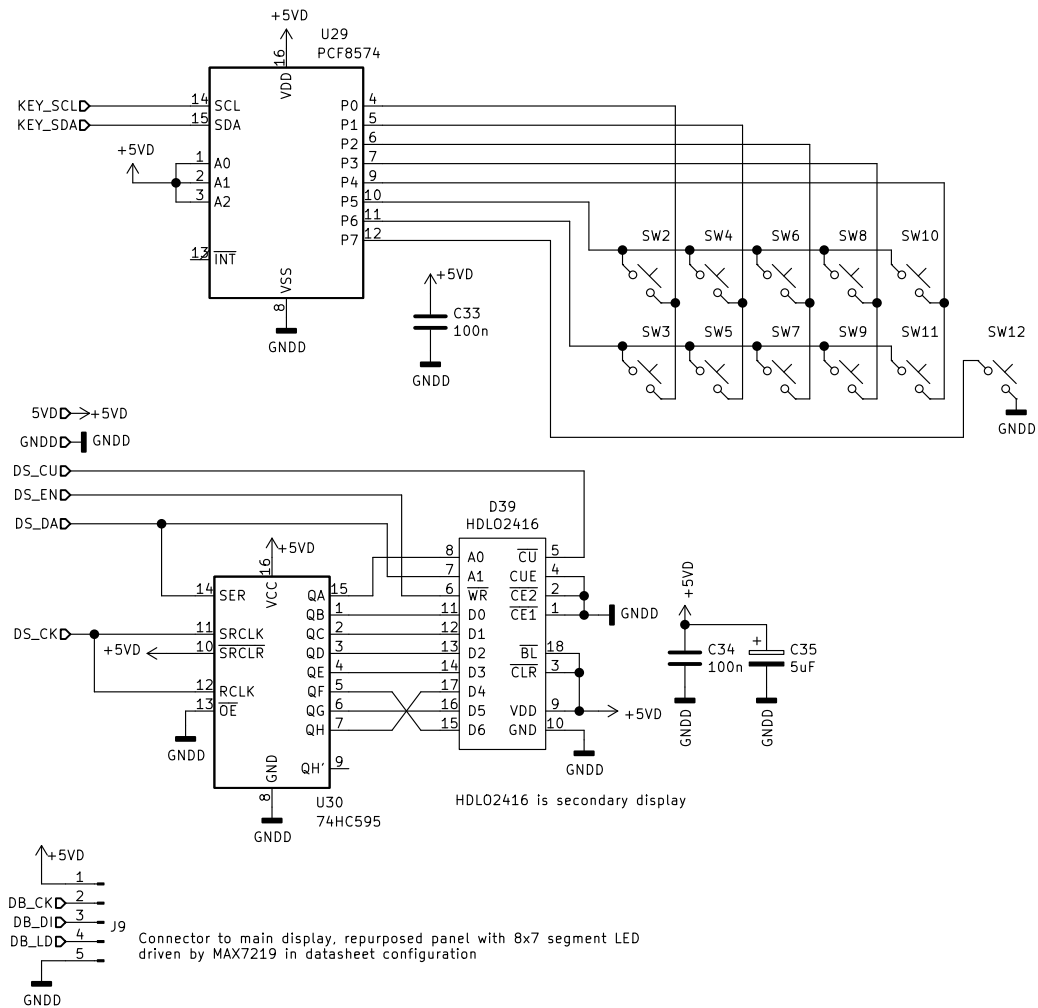
Size: A4

Date:

KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Rev:

Id: 7/10



Multimeter JM1 – display and keyboard

Sheet: /DSKY/
File: DSKY.sch

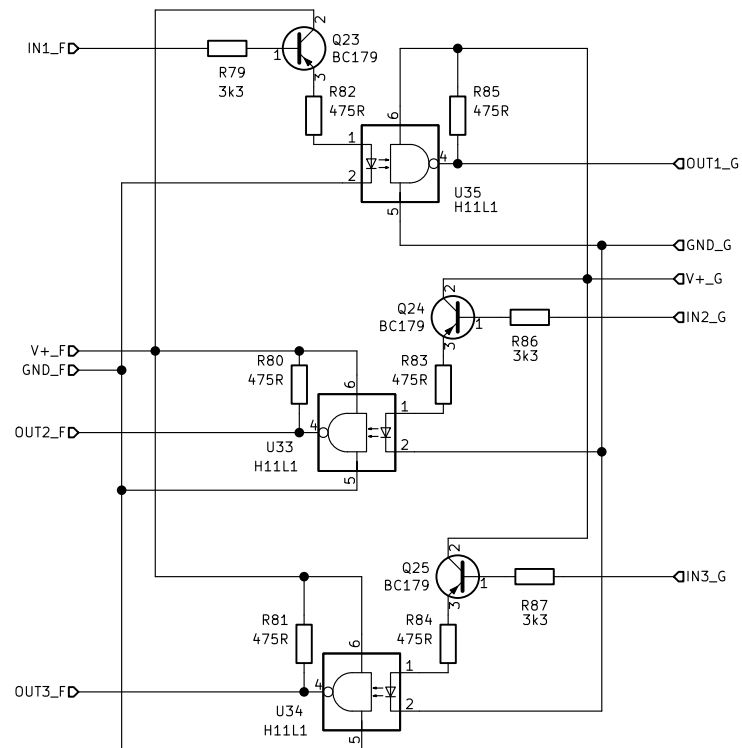
Title:

Size: A4
KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Date:

Rev:

Id: 8/10



Multimeter JM1 – optical isolators

Sheet: /ISOLATORS/
File: ISOLATORS.sch

Title:

Size: A4 Date: KiCad E.D.A. eeschema 5.1.7-a382d34a887ubuntu18.04.1

Rev: Id: 10/10