

Connector Top



MCU



Status LEDs



Power



MCU GPIOs



Error Detection



XDS100



Connector Bottom



Analog Filter



Isolation



Sheet: /
File: ControlBoard.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad (6.0.2-0)

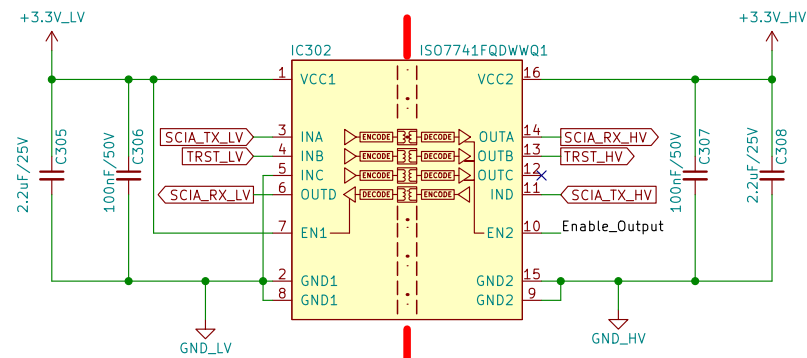
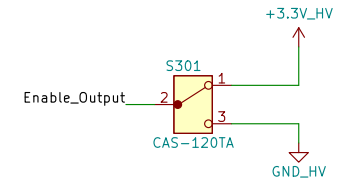
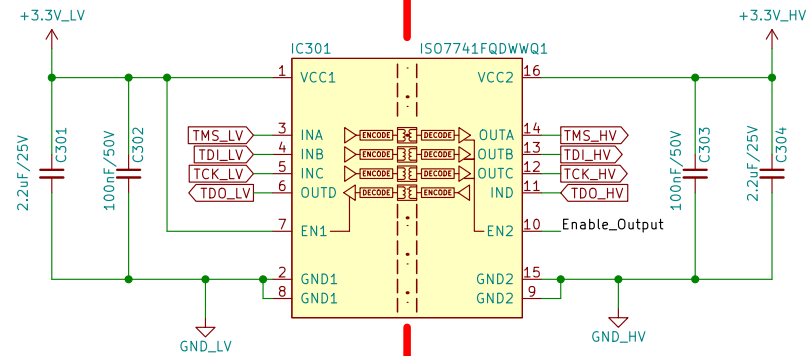
Date:

Rev:

Id: 1/11

Designed by LEA in Paderborn

JTAG and SCI ISOLATION



Sheet: /Isolation/
File: Isolation.kicad_sch

Title:

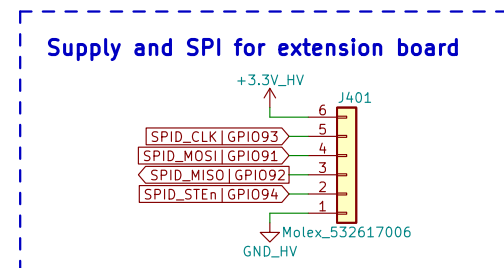
Size: A4

Date:

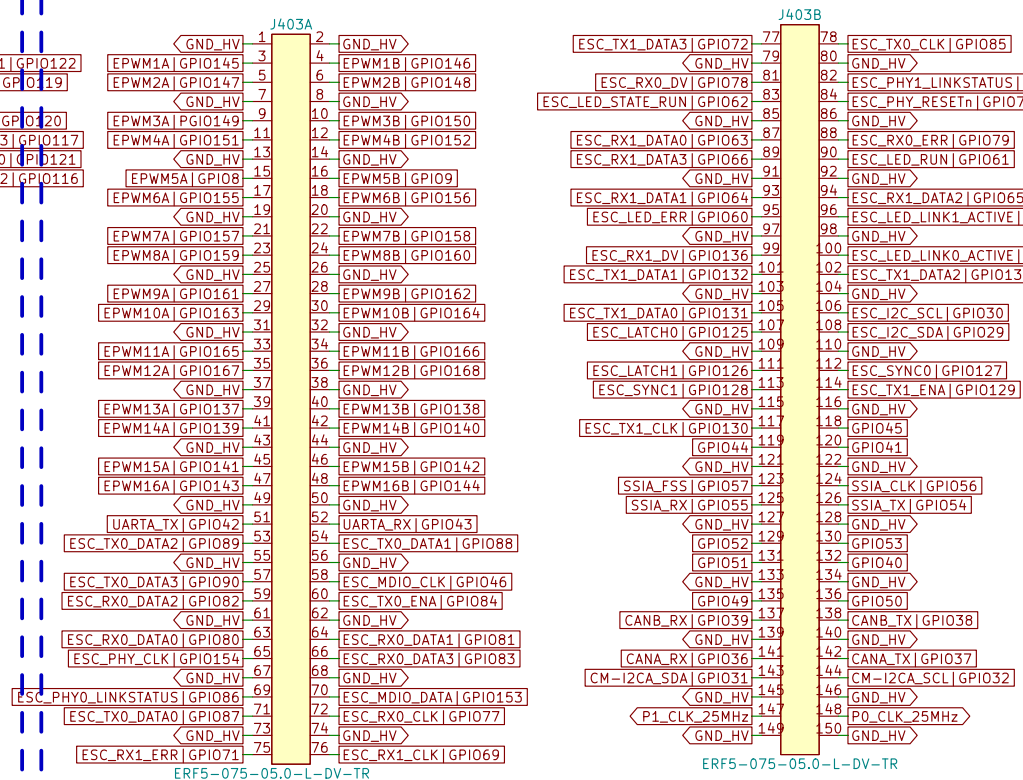
KiCad E.D.A. kicad (6.0.2-0)

Rev:

Id: 3/11



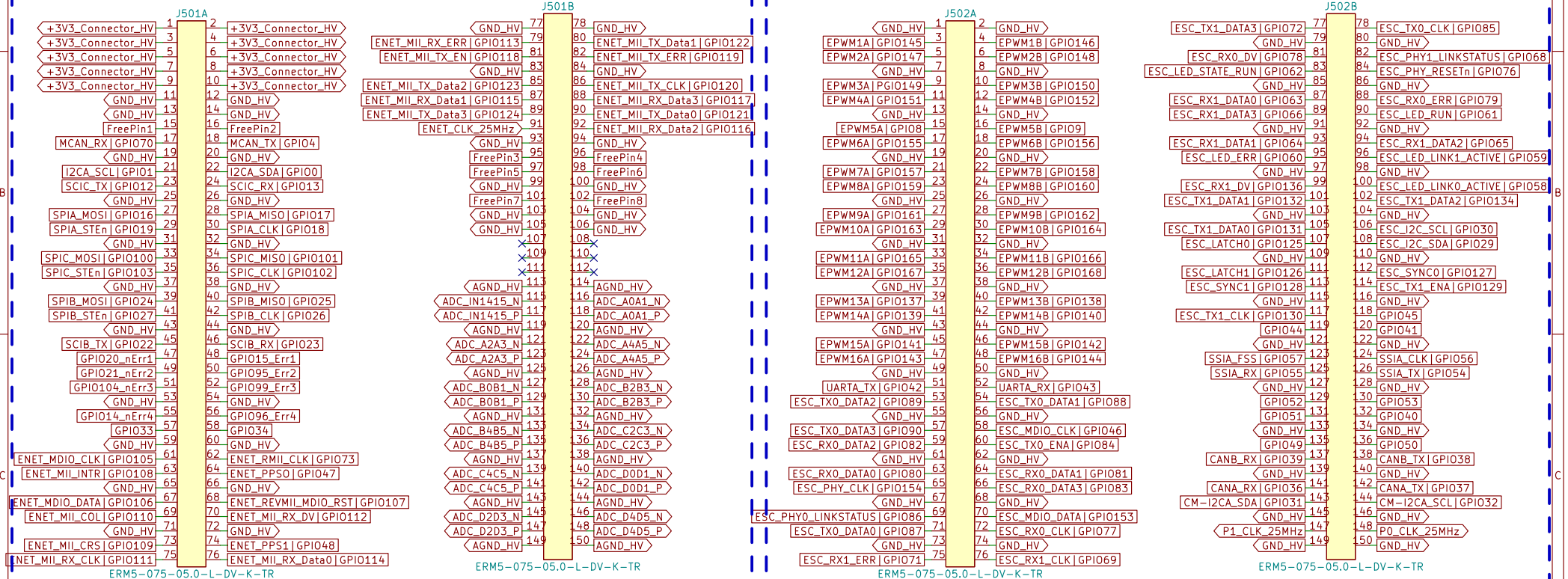
TOP RIGHT CONNECTOR



Rev:
Id: 4/11

BOTTOM LEFT CONNECTOR

BOTTOM RIGHT CONNECTOR



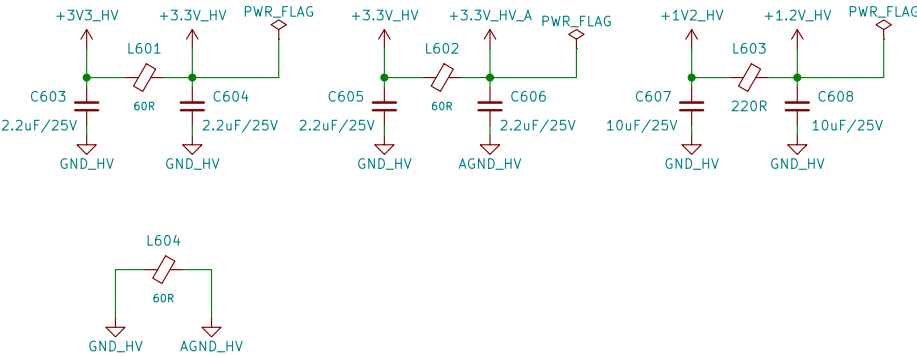
Sheet: /Connector Bottom/
File: Connector_Bottom.kicad_sch

Title:

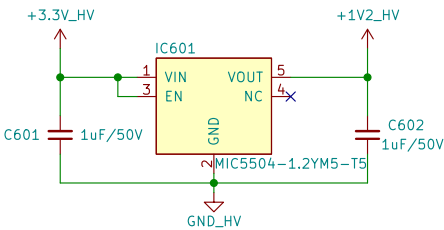
Size: A4 Date: Rev:

KiCad E.D.A. kicad (6.0.2-0) Id: 5/11

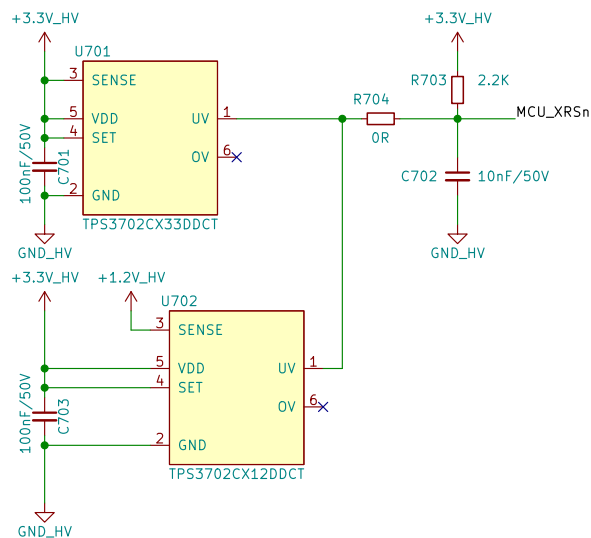
Ferrit Beads



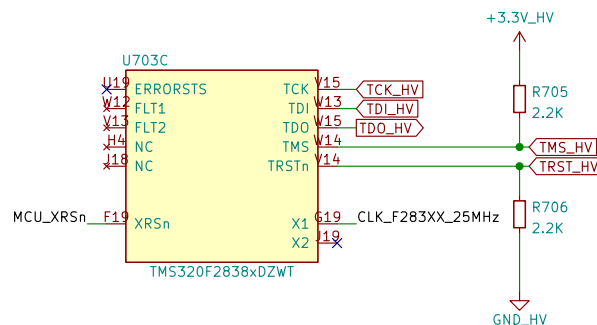
LDO 1.2V for MCU Core



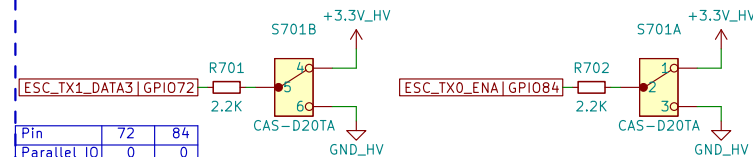
Power Supply Monitor



JTAG, CLK, Reset

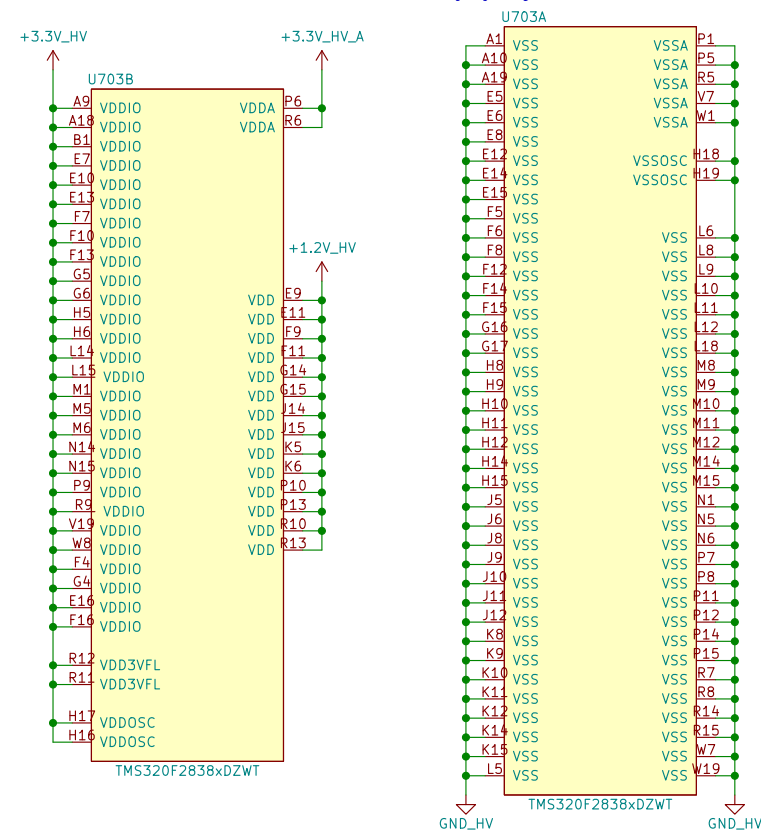


Boot Mode Pins

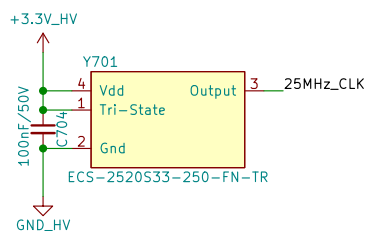


Pin	72	84
Parallel IO	0	0
SCI	0	1
Wait	1	0
Get/Flash	1	1

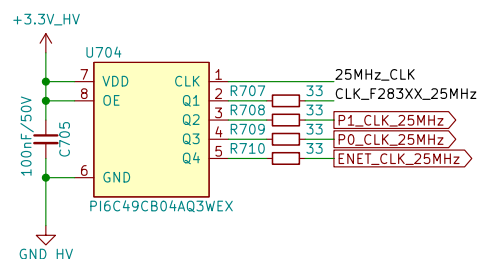
F2838x MCU Supply Pins



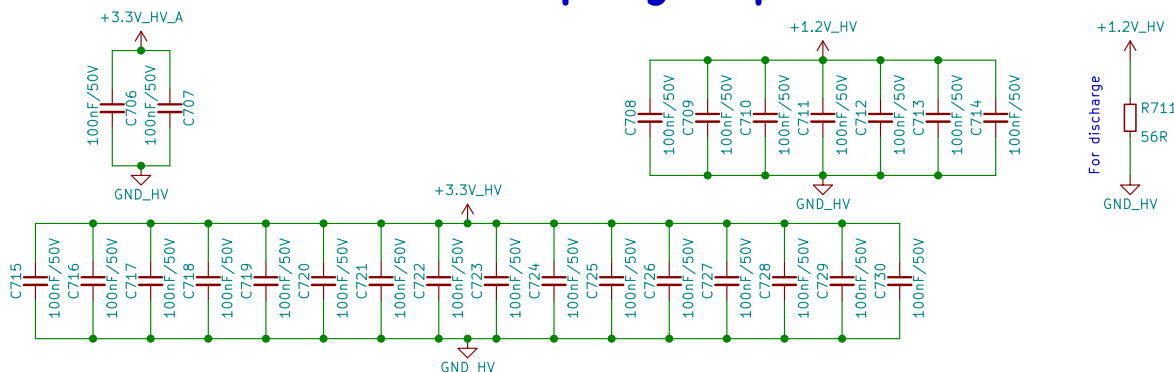
25MHz Clock



Clock Buffer



F2838x MCU Decoupling Capacitors



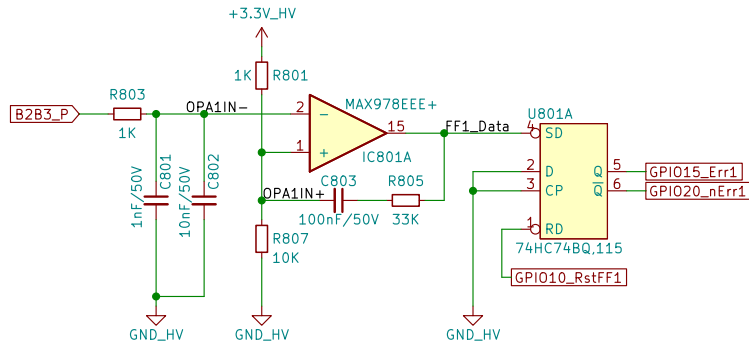
Sheet: /MCU/
File: MCU.kicad_sch

Title:

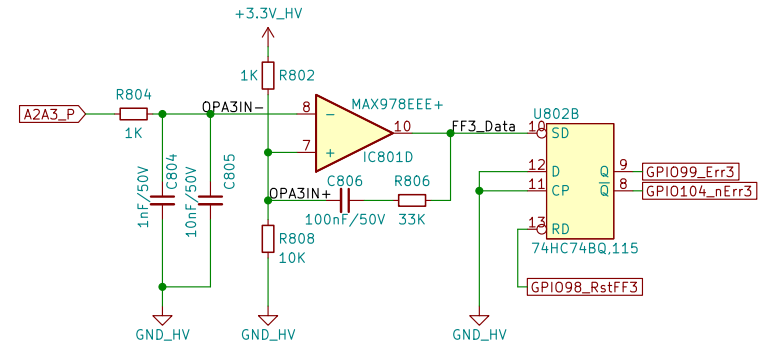
Size: A4
KiCad E.D.A. kicad (6.0.2-0)

Date:
Rev:
Id: 7/11

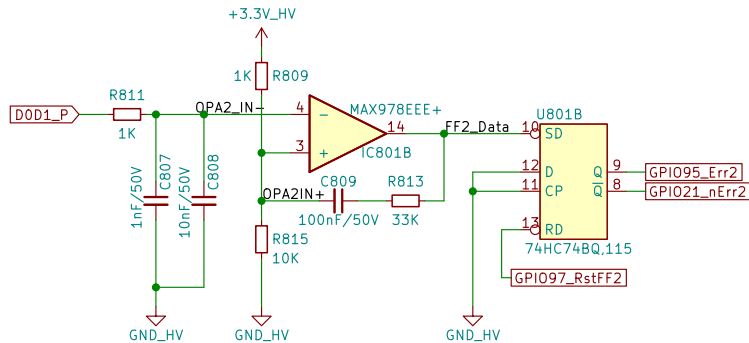
Error1 – B2B3P



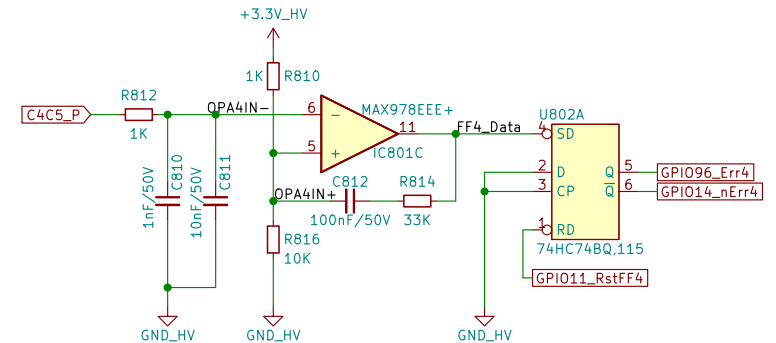
Error3 – A2A3



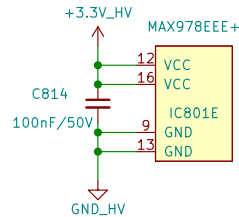
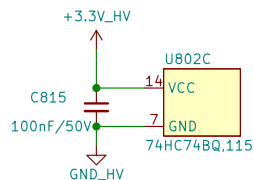
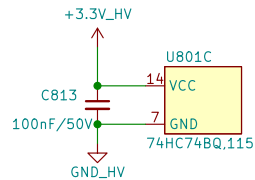
Error2 – D0D1



Error4 – C4C5



Power Supply



Sheet: /Error Detection/
File: ErrorcComparator.kicad_sch

Title:

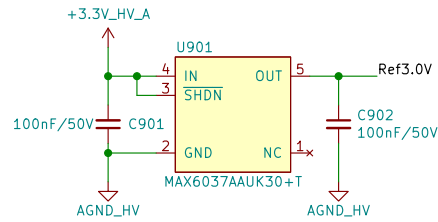
Size: A4
KiCad E.D.A. kicad (6.0.2-0)

Date:

Rev:

Id: 8/11

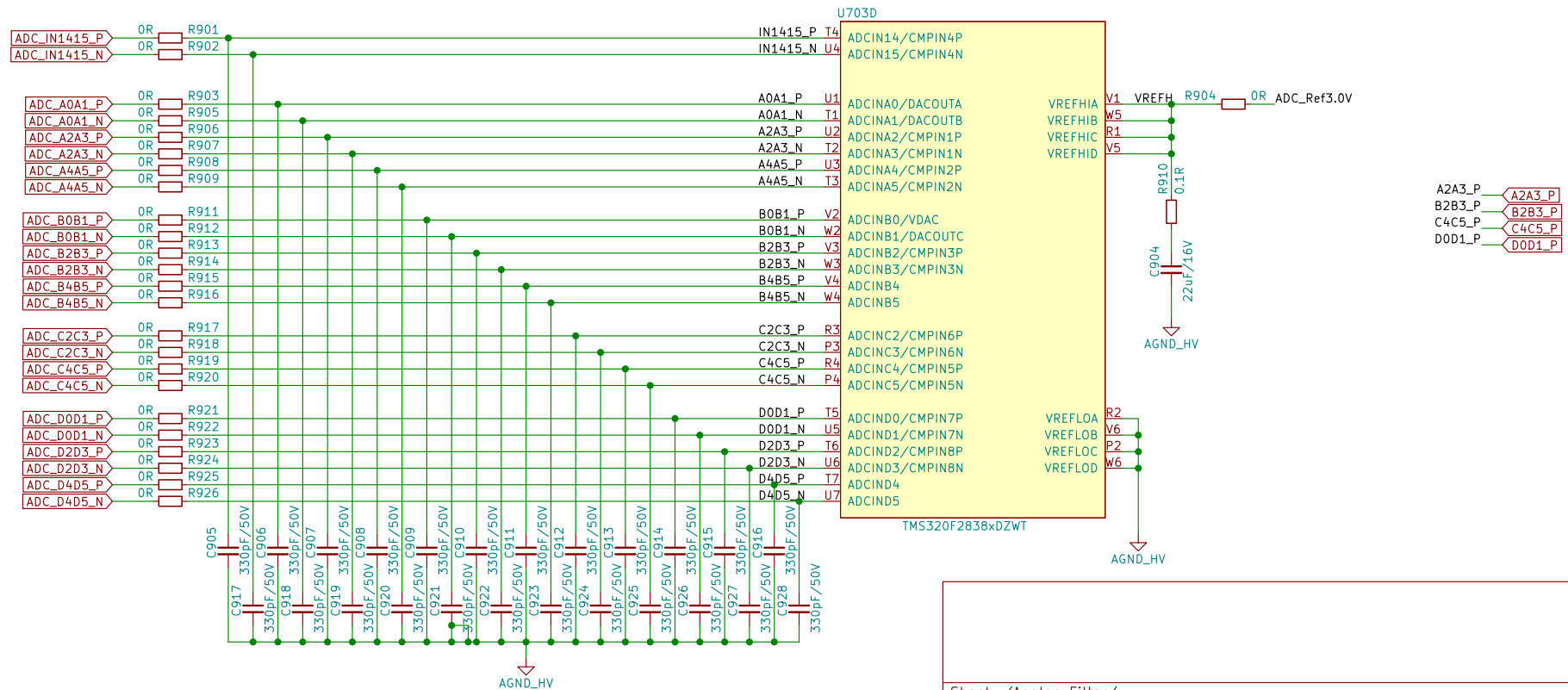
3V Referenz Voltage



3V Referenz Voltage Buffer



Analog Input Filter MCU F2838X



Sheet: /Analog Filter/
File: AnalogFilter.kicad_sch

Title:

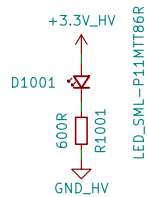
Size: A4
KiCad E.D.A. kicad (6.0.2-0)

Date:

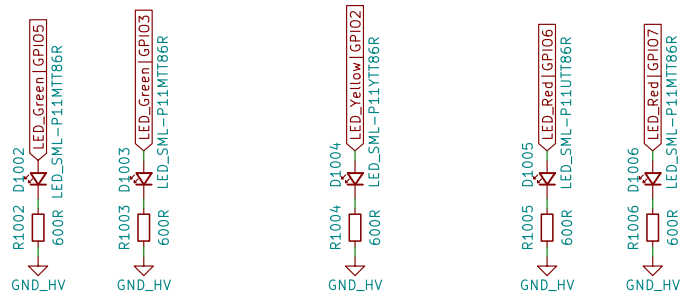
Rev:

Id: 9/11

Power LED



Status LEDs



Sheet: /Status LEDs/
File: LEDS.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad (6.0.2-0)

Rev:

Id: 10/11

F2838x MCU GPIO configuration

