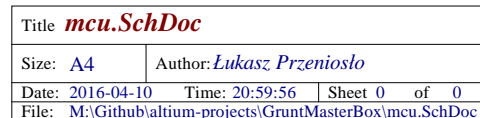


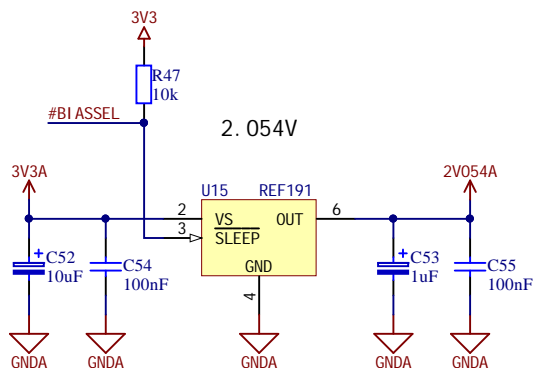
USB to serial port converter.
FT232RL uart lines (3.3V level)
connected to MCU uart lines
(crossed). Consider using MCU USB
peripheral.



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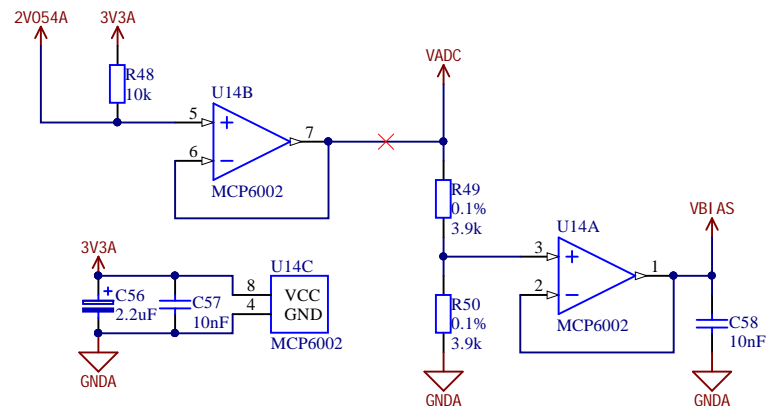


#BIASSEL #BIASSEL



#BIASSEL selects voltages values for MCU ADC VREF and BIAS voltage for analog circuitry. When #BIASSEL is LOW, 2.054V output is high impedance, allowing 3.3V to enter the voltage follower.

#BIASSEL LO -> VREF = 3.3V and VBIAS = 1.65V
#BIASSEL HI -> VREF = 2.054V and VBIAS = 1.027V



Title **RefVoltages.SchDoc**

Size: **A4**

Author: **Lukasz Przeniosło**

Date: **2016-04-10**

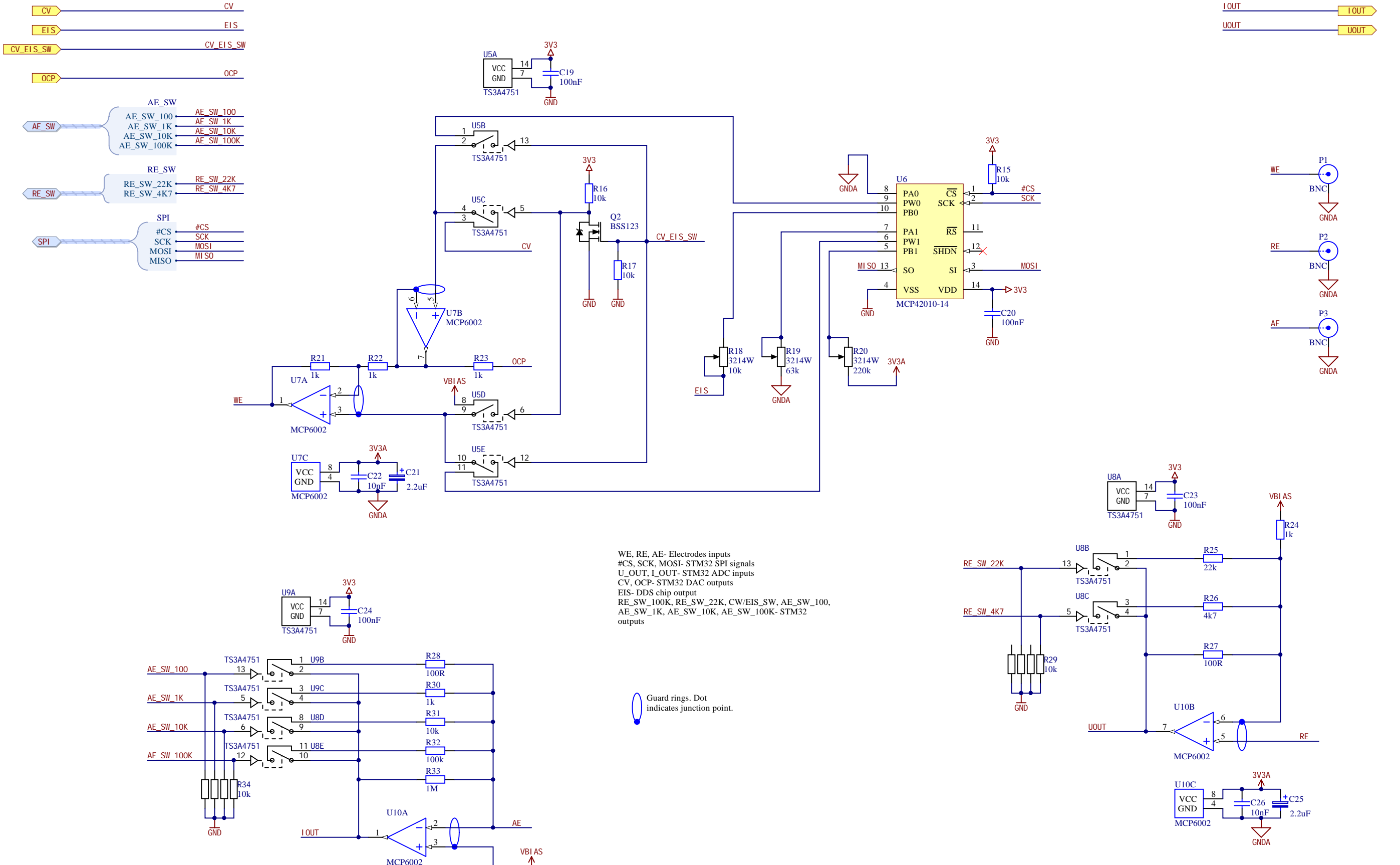
Time: **20:59:56**

Sheet **0** of **0**

File: **M:\Github\altium-projects\GruntMasterBox\RefVoltages.SchDoc**

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WE, RE, AE- Electrodes inputs
#CS, SCK, MOSI- STM32 SPI signals
U_OUT, L_OUT- STM32 ADC inputs
CV, OCP- STM32 DAC outputs
EIS- DDS chip output
RE_SW_100K, RE_SW_22K, CW/EIS_SW, AE_SW_100,
AE_SW_1K, AE_SW_10K, AE_SW_100K- STM32
outputs

Guard rings. Dot
indicates junction point.

