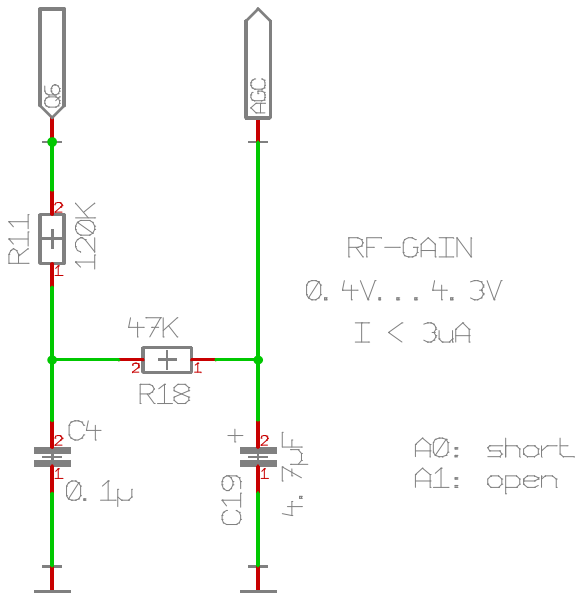


e-Callisto Non Conformance Report (NCR)

In view of automatic quality control, it was foreseen to measure the applied control voltage of tuner (AGC). This voltage is produced by PWM via bit Q6 from the RISC processor. In theory the maximum AGC voltage can be up to 4.3 volts. Since the internal reference voltage of the ADC is only 2.5 volts, it is not possible to measure AGC voltages higher than 2.5 volts. This was never tested; therefore the log file entry about AGC voltage is wrong if it should be higher than 2.5V.

If the PCB should be redesigned in the future, then one should take into account a high impedance voltage divider (>1 Mohm) for AGC voltage which is fed into an ADC. This design error has no influence to the spectrometer function.



Decision: use PCB as it is, no redesign at then moment.