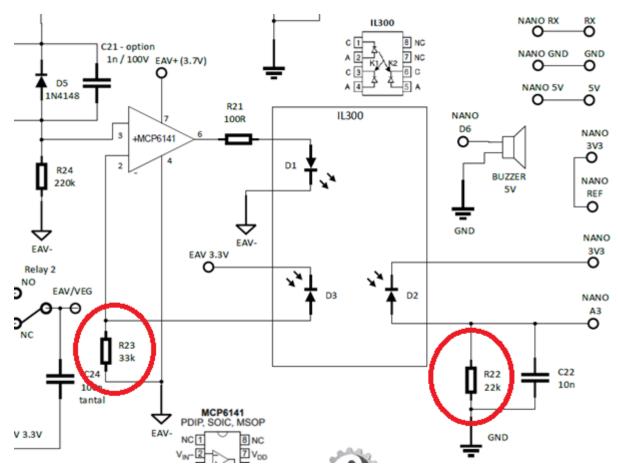**2019-11-09 qiWELLNESS for PCB and prototypes version**

Selection of R22 resistor value depending on the IL300 bin type.

e.g.

R23 = 33k always!

If you use **IL300-H** R22=22k (letter H).

H = (1.169+1.311) / 2 = 1.24 (middle of transfer gain K3)

85 % * 33k / 1.24 = 0.85 * 26.6k = 22.61k - **use 22k**

Bin sorting: K3 (transfer gain) is sorted into bins that are ± 6 %, as follows:

- A = 0.557 to 0.626
- B = 0.620 to 0.696
- C = 0.690 to 0.773
- D = 0.765 to 0.859
- E = 0.851 to 0.955
- F = 0.945 to 1.061
- G = 1.051 to 1.181
- **H = 1.169 to 1.311**
- I = 1.297 to 1.456
- J = 1.442 to 1.618

If you select R22 resistant well you will calibrate the device easily.

See: **Hardware calibration method** https://github.com/biotronika/miniVOLL