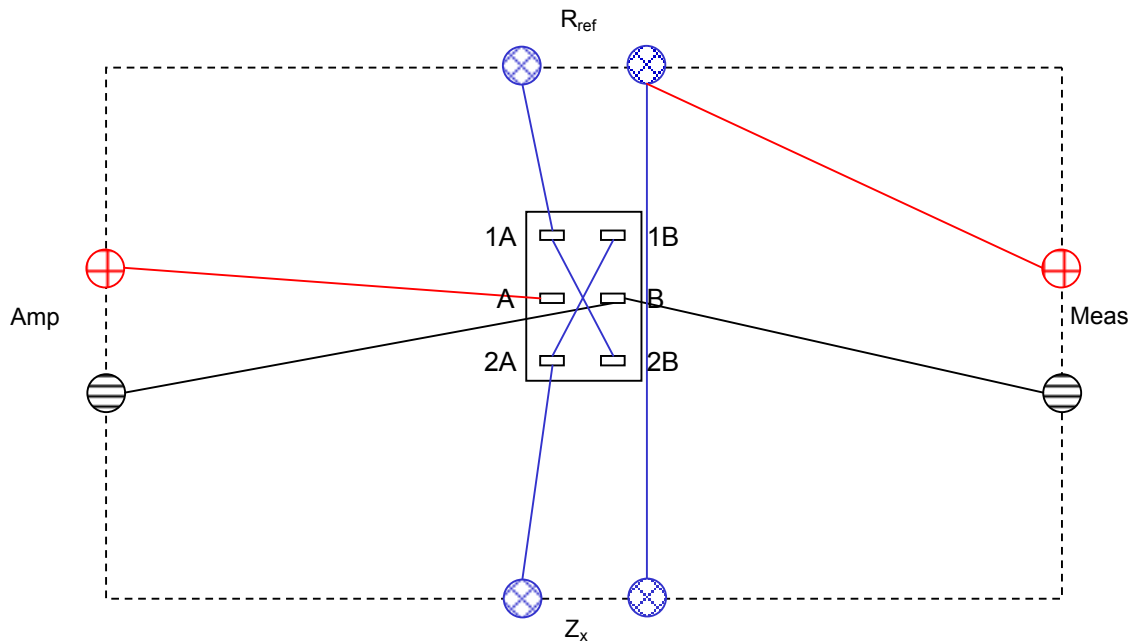


IMPEDANCE MEASUREMENT DEVICE FOR SB_OCT

The following device helps to speed up impedance measurements with SB_OCT:



It allows to use different reference resistors. It is recommended to use a resistor in the range of 1 to 2 times R_{dc} . A 5.5Ω device (use 4x 22Ω , 0.5W, 1% resistors in parallel to increase accuracy to 0.25% and power handling to 2W) is a good choice to cover 4 and 8Ω loudspeakers.

1st measurement (R_{ref} must be connected with Amp-):

When the knob of the switch points to the reference resistor R_{ref} , A is connected with 2A and B is connected with 2B. Thus Amp+ is connected with Z_x and Amp- is connected with R_{ref} .

2nd measurement (Z_x must be connected with Amp-):

When the knob of the switch points to the unknown impedance Z_x , A is connected with 1A and B is connected with 1B. Thus Amp+ is connected with R_{ref} and Amp- is connected with Z_x .