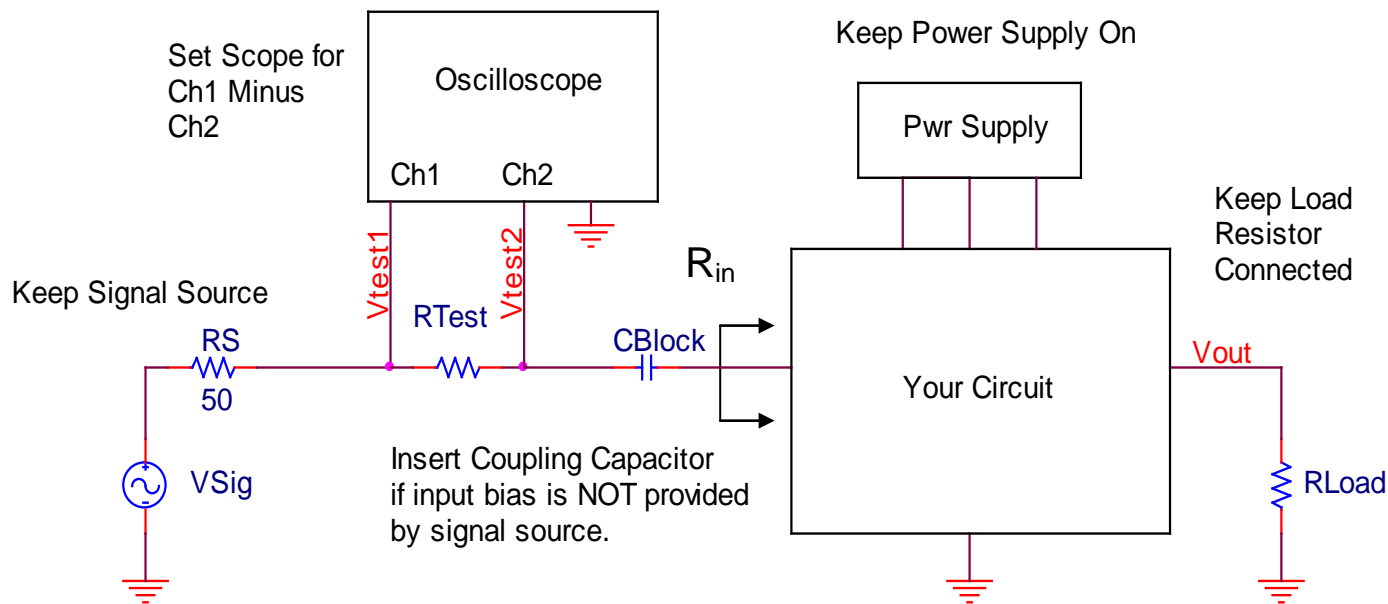


Hardware Measurement of R_{in}

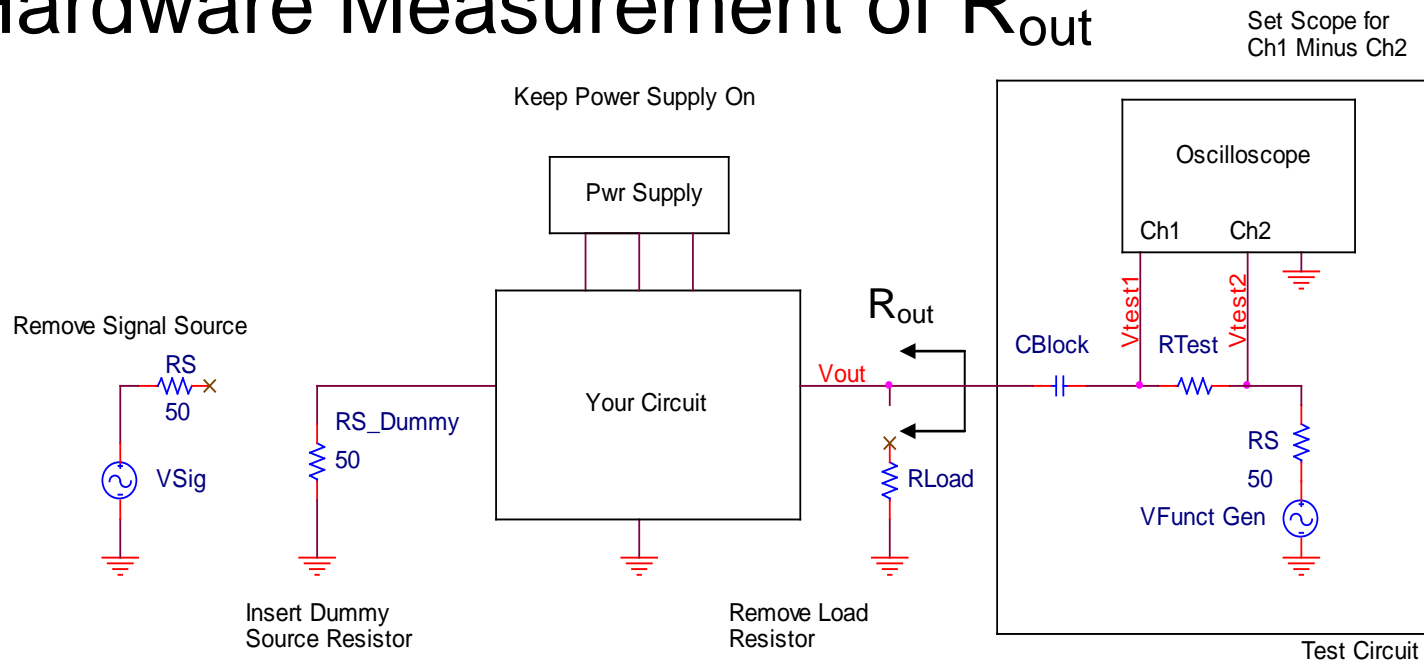


$$i_i = i_{test} = \frac{|v_{test1} - v_{test2}|}{R_{test}}$$

$$R_i = \frac{v_{test2}}{i_{test}}$$

Choose R_{test} and v_{test} so that they are big enough to produce an unambiguous measurement. V_{test2} should be comparable to inputs normally provided to the amplifier. C_{Block} should have little impedance at the test frequency.

Hardware Measurement of R_{out}



$$i_o = i_{test} = \frac{|v_{test2} - v_{test1}|}{R_{test}}$$

$$R_o = \frac{v_{test1}}{i_{test}}$$

Remember that the v_{ampl} of the function generator should be set so that v_{test1} 's magnitude is comparable to the maximum undistorted output seen under normal operation. R_{test} should be chosen to create an unambiguous i_{test} signal. CBlock should present low impedance at the test frequency.

The EASIER WAY:

1. Estimate what the R_{in} or R_{out} value is.
2. Get a POT that is about TWICE the estimated size
3. Put the POT between the input and your circuit
4. Measure the voltage at EACH side of the POT.
5. Adjust the POT till the voltages are the SAME.
6. Measure the value of the POT, this is the resistance you are looking for.
7. Can you say Voltage Divider!!!!!!!!!!!!!!!!!!!!!!