

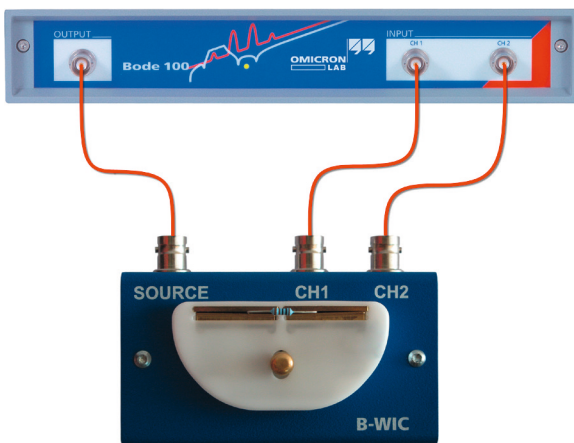
Getting Started

Impedance Test Adapters

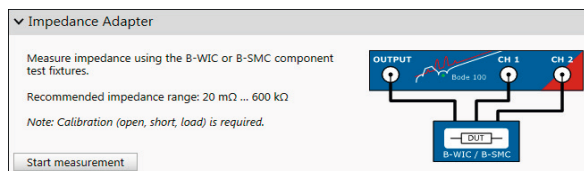
The impedance test adapters **B-WIC** and **B-SMC** change your Bode 100 into an easy to use LCR meter. Magnitude and phase, the series and parallel equivalent circuit parameters, as well as quality factors of complex impedance values can directly be measured in the full frequency range from 1 Hz to 50 MHz.

1. Connection Setup

The impedance adapters are connected to the Bode 100 using three BNC cables. Please use the standard cables that come with the Bode 100.

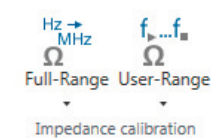


2. Impedance Adapter Mode

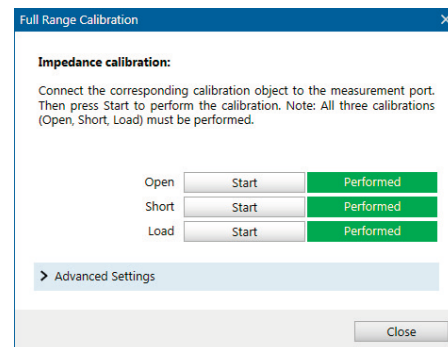


Select the **Impedance Adapter** measurement mode in the Bode Analyzer Suite and press Start Measurement in order to start measuring. Note that an impedance calibration must be performed before you can start a measurement.

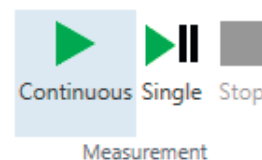
3. Calibration



Use either Full-Range or User-Range calibration and perform OPEN, SHORT and LOAD calibration. Please refer to the next page to learn how to set up the adapters for each calibration step.



4. Start the Measurement



After the calibration has been performed, the measurement can be started. Inductance, capacitance, resistance and quality factor can directly be measured by changing the measurement **format** to the desired parameter.

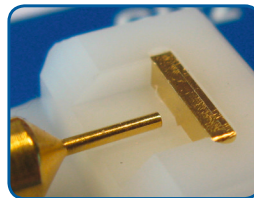
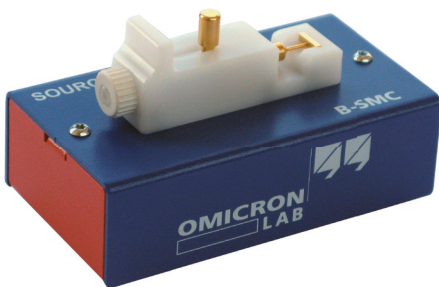
Please refer to the Bode 100 User Manual for further details. Additional measurement examples can be found in the Application Note section of the OMICRON Lab webpage: www.omicron-lab.com

Calibration Procedure

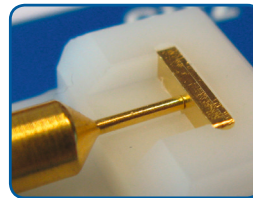
OPEN, **SHORT** and **LOAD** calibration must be performed for measurements with B-SMC or B-WIC. For the calibration, we recommend using the OMICRON Lab calibration objects delivered with the adapters. The pictures on this page show how to set up the adapters for each calibration step.

B-SMC

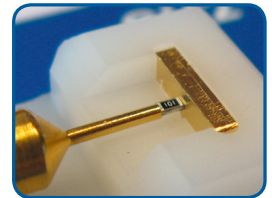
Impedance test adapter for surface mount components



OPEN*



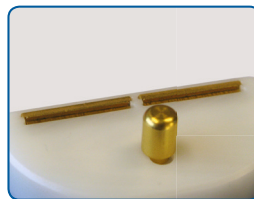
SHORT



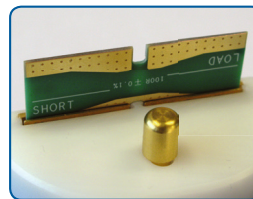
LOAD

B-WIC

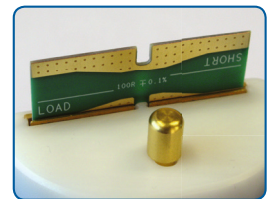
Impedance test adapter for through-hole type components



OPEN



SHORT



LOAD

* use the adjusting nut of the B-SMC to ensure the correct distance (same as DUT size) between needle and plate for the OPEN calibration.