Component Test Fixture – Accurate Part Test

Improve Your Simulation Accuracy

Component Testing & Characterization

2-port Shunt Through Impedance Testing

Significantly Better Simulation Models

Capacitors – DC Bias

Inductors -Magnetics

Resistors

Ferrite Beads

Passive Parts

PICOTEST

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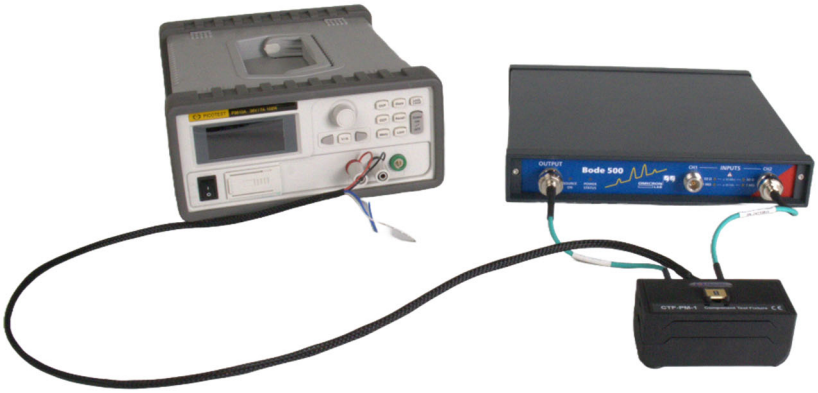
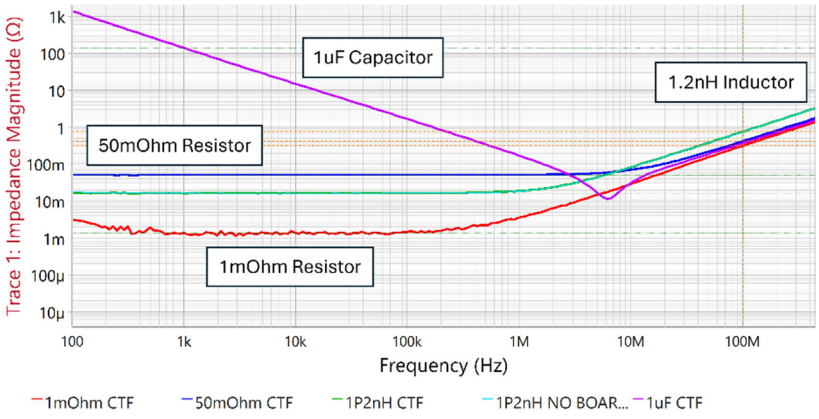
Accurate Part Characterization

The Picotest Component Test Fixture (CTF) is a powerful accessory designed to streamline impedance and S-parameter measurements of surface-mount components. The precision of the CTF, unique calibrators. and matched test mounts, allow measurements down to pHs and pFs. Perfect for the most challenging power integrity, AI/datacenter, FPGA/ASIC, and high dynamic current applications.



CTF connected to the OMICRON Lab Bode 500 VNA with PDN cables. The Picotest P9610 power supply is used here for DC bias.



Sample DUT Measurements

Take Your Simulations to the Next Level

You need your simulations to match your hardware. Being able to predict the response is key. To do that you need more accurate models. More accurate models require more accurate data. Whether you are creating models for SPICE, Keysight ADS, or end-to-end PDN/impedance simulation, the CTF empowers you to base your work on real, measurement-derived impedance data rather than relying on approximate datasheet values.

BENEFITS:

- Measure components to an accuracy and fidelity level that could not be measured before
- Achieve measurements with pH fidelity necessary for today's PDN simulations
- Easy to use and calibrate 2-port shunt through impedance measurement
- Simple part mounting – Covers standard part sizes
- Characterized PCB enables accurate calibration and de-embedding
- Greatly enhances simulation accuracy
- Enables accurate part characterization for use with the OMICRON Lab Bode Analyzer Curve-Fitting/SPICE Modeling tool and other simulators
- Enables measurement-based models
- Fixture physically holds the DUT
- Excellent accuracy with repeatability
- Multiple component form factors

FEATURES:

- pH Accuracy
- Offers a wide frequency range: DC to 3GHz.
- Enables measuring impedance from uΩ to kΩ
- Features hand placed DUT and quick mounting for component changes
- Includes calibrator PCBs for both impedance and full-2port (SOL) calibration
- Supports AC (through the VNA) and DC Bias testing
- Includes the common mode transformer to alleviate ground loop issues. No additional isolator needed.
- Includes transient protection to keep your instrument safe.
- AC and DC Bias (up to 75V)

PICOTEST
The test and measurement experts.

CTF 2-port base, DC bias module and personality module for DUT board placement and testing. The personality module can be customers for larger components.

The CTF works with all VNAs and oscilloscopes that can perform a 2-port measurement. Shown here with the Keysight E5061B ENA.

SPECIFICATIONS

P2105A 1-Port Multi-Function Probe	
Characteristic	**Rating**
Part Size limits	0201, 0402, 0603, 0805, 1206, and 1210
Impedance Floor	31pH
Frequency Limits w/o DC Bias Adapter	DC – 3GHz+
Frequency Limits with DC Bias Adapter	DC – 500MHz
Connectors	3.5mm
Maximum DC Bias Voltage	-75VDC to +75VDC

Caution: To avoid equipment damage and/or severe injuries death or death do not use this probe close to voltages higher than 50 VAC or 75 VDC.

Calibration, sample DUTs, and blank boards are provided with the CTF.

For more information on Picotest products, applications, or services, please contact Picotest at info@picotest.com.

This information is subject to change without notice.

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