

Test Fixtures



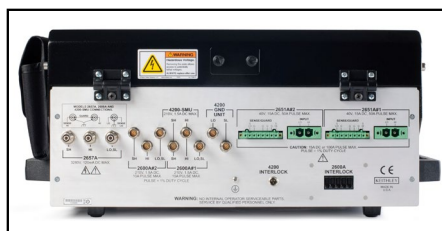
Model 8010 High Power Device Test Fixture:

The Model 8010 High Power Device Test Fixture provides safe and easy connections for testing packaged high power devices at up to 3000V or 100A. The Model 8010 provides connections for a high voltage SourceMeter SMU instrument (Model 2657A), one or two high current SourceMeter SMU instruments (Model 2651A), and three low power SourceMeter SMU instruments (other Series 2600B or Model 4200-SCS source measure unit (SMU) instruments). This allows devices with two terminals (diodes) or three terminals (transistors) or even four or five terminals to be characterized safely and accurately. The Model 8010 has full interlock capability for up to six SourceMeter SMU instruments. The Model 8010 has integrated protection circuits that protect the low voltage SourceMeter SMU instruments from high voltages the Model 2657A can output should a device fault occur. The Model 8010 includes both a high current (100A) and a high voltage (3000V) test socket. Various replacement test socket modules are available, including TO-247, TO-220, axial lead, and a blank socket module that allows building a custom socket. In addition to standard banana jumpers, the Model 8010 has rear-panel scope and thermal probe ports to simplify system integration.

ACCESSORIES SUPPLIED

3 ea. CA-558-2	Three-Pin Interlock Connector Cables (2m)
12 ea CA-560-x	Banana to Banana Jumper Cables (203mm)
2 ea. CA-562-x	Safety Banana to Banana Jumper Cables (254mm)
6 ea. CA-563	BNC to Banana cables (241mm)
2 ea. CA-568-120	Earth Safety Ground Cables (305cm)
1 ea. 8010-317	Socket Insulating Plug Card
1 ea. 8010-CTB	Customizable Test Board
2 ea. 8010-DTB	Device Test Board for TO-247 Devices (3kV, 100A)

For use with: 2651A, 2657A, 4200-SCS, 26xxB, 2600-PCT-x, 4200-PCT-x



Model 8009 Resistivity Chamber: The Model 8009 is a guarded test fixture for measuring volume and surface resistivities. It assures good electrostatic shielding and high insulation resistance up to 1100V. The 8009 is designed for safe operation with the 6517A or 6517B. Opening the lid of the 8009 automatically turns off the 6517A or 6517B voltage source. The 8009 accommodates sheet samples from 64mm to 102mm (2½ to 4 in) in diameter and up to 3.2mm (¼ in) thick. It maintains good sample contact with uniform pressure (from 6 to 10 lbs depending on thickness) on smooth parallel samples.

With the front panel switch on the 8009, toggle between volume and surface resistivity, with the 6517A or 6517B configured to calculate and display the appropriate result automatically. The 8009 permits direct measurement of volume resistivity up to $10^{18}\Omega\text{-cm}$ (on samples 0.1cm thick) and surface resistivity up to $10^{17}\Omega/\text{square}$, in accordance with ASTM procedures.

ACCESSORIES SUPPLIED

6517-ILC-3	Interlock Cable for 6517A
6517B-ILC-3	Interlock Cable for 6517B
7078-TRX-3	Triax Cable
8007-GND-3	Safety Ground Wire
8607	Source Cable Set

ENVIRONMENTAL LIMITS: Operating: -30° to $+85^{\circ}\text{C}$, 65% R.H. up to 35°C , derate 3% R.H./ $^{\circ}\text{C}$ above 35°C . Storage: -25° to $+85^{\circ}\text{C}$.

DIMENSIONS: 108mm high \times 165mm wide \times 140mm deep (4¼ in \times 6½ in \times 5½ in).

WEIGHT: 1.45kg (3.19 lbs).

For use with: 6487, 6517A, 6517B

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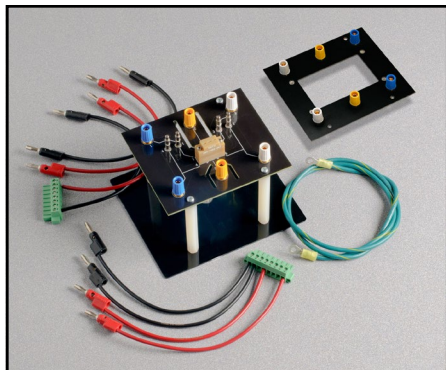
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Test Fixtures



Model 8011 Test Socket Kit: A three pin, TO-247 test socket that is rated to 40V and 50A. Includes cables for connecting to Model 2651A High Power System SourceMeter® SMU instrument.

ACCESSORIES SUPPLIED:

8010-DTB	Device Test Board for TO-247 devices
8010-CTB	Customizable Test Board
CA-560-0	Banana to Banana Test Cables
CA-560-2	Banana to Banana Test Cables
CS-1629-8	Two 8-pin Female Plug Connectors with screw terminal connections (2 ea.)
CA-567-0	Banana to Banana Test Cables (4 ea.)
CA-567-2	Banana to Banana Test Cables (4 ea.)
2600-KIT	8-pin Male Phoenix Connector Kit (2 ea.)

For use with: Model 2651A High Power System SourceMeter



Model 8101-4TRX: 4-pin transistor fixture.

For use with: 4200-SCS, Series 2600B, 6482, any 40V rated triaxial instrument



Model 8101-PIV: DC and pulse I-V demo fixture that is a metal case with four female triax connectors, two SMA connectors, and a latch. Inside the test fixture are two 4-pin device holders (transistor sockets) and two plungers for parts with two leads.

For use with: 4200-SCS, Series 2600B, 6482, any 40V rated triaxial or SMA instrument



Model LR:8028: Component test fixture optimized for device testing up to 200V/1A. Includes color-coded mini jumpers for easy device connections.

ACCESSORIES SUPPLIED:

40 ea. standard color-coded Teflon® mini jumpers, 20 red and 20 black
LR:8028 Instruction Manual

For use with: 4200-SCS, Series 2600B, 6482, any 40V rated triaxial or SMA instrument

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