

Test Fixtures

Device Compatibility		3323A	3327	8006	8007	8008	8009
Sheet Resistance						■	■
Volume Resistance						■	■
Axial Devices		■		■			
Chip Devices			■				
T0 18 Packages	4-Lead			■			
T0 5 Packages	4-Lead			■			
	8-Lead			■			
Dual In-Line Packages	≤24-Lead				■		
	≤28-Lead			■			
	≤48-Lead				■		
Prototyping Board					■		

Instrument Compatibility		3323A	3327	8006	8007	8008	8009
Characterization Systems	4200-SCS			■	■		
DMMs	197A			■	■		
	2000, 2001, 2002, 2010			■	■		
Nanovoltmeters	2182			■			
Sources	213			■	■		
	220			■	■		
	224			■	■		
	228A			■	■		
	230			■	■		
	263			■	■		
SMUs	236			■	■	■	
	237			■	■	■	
	238			■	■	■	
Picoammeters	428			■	■	■	
	485			■	■	■	
	486			■	■	■	
	487			■	■	■	
C-V Meters	590			■	■		
	595			■	■		
Electrometers	6514			■	■	■	
	6517A			■	■	■	■
Switching Matrix							
	707A, 708A, 7072, 7172, 7174A			■	■		
LCZ Meters	3321	■	■				
	3322	■	■				
	3330	■	■				

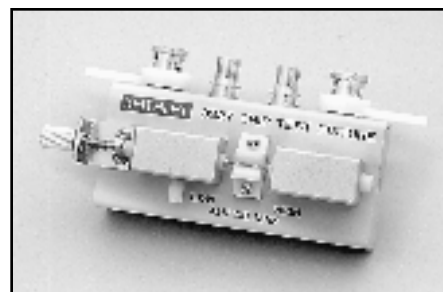
All test fixtures are available with an Extended Warranty.



Model 3323A Direct Test Fixture

The Model 3323A is designed for component measurement by directly inserting the component into the fixture. It can accommodate axial-lead components or radial-lead components without bending the component leads.

For use with: LCZ Meters.



Model 3327 Chip Component Test Fixture

The Model 3327 Chip Component Test Fixture provides a convenient method for testing the impedance of chip (i.e., SMD) components. The spring-loaded plunger provides consistent contact pressure for measuring low impedance devices and low predictable stray capacitance for measuring low capacitive devices.

For use with: LCZ Meters.

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Test Fixtures



Model 8006 Component Test Fixture

The Model 8006 Component Test Fixture was designed specifically for making sensitive measurements on standard package devices with minimal setup time. Individual components may be connected to one of eight device sockets, including axial, 4-, 8-, 10-, and 12-lead T0, and 28-pin DIPs. Instrumentation can be easily integrated through the 3-lug triax, BNC, or binding post connectors on the rear panel.

Signals from the test instruments are accessible at the test fixture's front panel. Mini jumper cables are provided to connect the signal to the appropriate device socket, which is also located on the front panel. This unique patch-board design allows for maximum versatility and the fastest possible setup times.

The 8006 Test Fixture maintains accuracy throughout the test circuit with greater than $100T\Omega$ ($10^{14}\Omega$) path isolation, 4-wire connections, guarded jumpers, gold contacts and interconnects, and less than 100fA offset current. A hinged lid covers the component panel to provide a light-tight and shielded measurement.



Model 8007 Semiconductor Test Fixture

The 8007 Semiconductor Test Fixture assures accurate measurement data for DC characterization of packaged devices. This test fixture provides a convenient means of making sensitive measurements

on Dual In-line Packages (DIPs) of 0.3 or 0.6 inch centers and up to 48 pins with the 24- or 48-pin socket. The prototyping board can be installed on the front panel for customized testing of packages with up to 72 pins.

Accuracy is maintained to the DUT with isolation of more than $1T\Omega$. Offset current for the 8007 is less than 1pA, while maximum signal voltage is 200V with 1A peak current. A hinged cover provides light-tight and shielded measurements. 72 ferrite beads are also included for custom applications when DC tests are performed on active devices and some decoupling is required.

Supplied with interlock cable, phototyping board, and two input cables (each terminated with twelve 3-slot triax plugs).



Model 8008 Resistivity Chamber

The 8008 Resistivity Chamber is a guarded test fixture for measuring volume and surface resistivities. It assures good electrostatic shielding and high insulation resistance up to 1100V.

The 8008 accommodates sheet samples 64 to 102mm ($2\frac{1}{2}$ to 4 in) in diameter and up to 3.2mm ($\frac{1}{8}$ in) thick. It maintains good sample contact with uniform 1 pound pressure on smooth parallel samples. A lid switch activates the voltage disable input on the rear panel of the 487 or SMU.

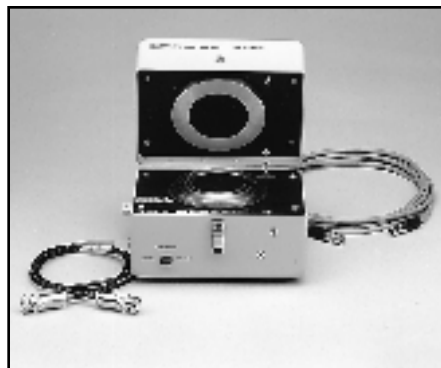
The 8008 permits direct measurement of volume resistivity up to $10^{18}\Omega\text{-cm}$ (on samples 0.1cm thick) and surface resistivity up to $10^{17}\Omega/\text{square}$ in accordance with ASTM procedures.

Supplied with necessary cables to use with 487 or 236, 237 and 238.

ENVIRONMENTAL LIMITS: Operating: -25° to $+85^{\circ}\text{C}$, 70% R.H. up to 35°C . Storage: -25° to $+85^{\circ}\text{C}$.

DIMENSIONS: 108mm high \times 165mm wide \times 140mm deep ($4\frac{1}{4}$ in \times $6\frac{1}{2}$ in \times $5\frac{1}{2}$ in).

WEIGHT: 1.45kg (3.19 lbs).



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. Opening the lid of the 8009 automatically turns off the 6517A voltage source. The 8009 accommodates sheet samples from 64mm to 102mm ($2\frac{1}{2}$ to 4 in) in diameter and up to 3.2mm ($\frac{1}{8}$ 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 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.

Supplied with necessary cables to use with 6517A, including Model 8607 Safety HV Dual Test Leads

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 ($4\frac{1}{4}$ in \times $6\frac{1}{2}$ in \times $5\frac{1}{2}$ in).

WEIGHT: 1.45kg (3.19 lbs).

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