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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 7, 2026

KEITHLEY

Keithley 8009 Resistivity Test Fixture Reference

Keithley 8009 Resistivity Test Fixture Reference The Keithley 8009 is a guarded resistivity test fixture for volume and surface resistivity measurements on insulator samples. Used with Keithley 6517 / 6517A / 6517B Electrometer/High Resistance Meters via a three-lug triaxial measure connector and safety banana source connections. Switchable volume/surface modes with stainless-steel electrodes and conductive rubber pads. Volume resistivity to $10^{18} \Omega\cdot\text{cm}$; surface resistivity to $10^{17} \Omega$; insulator material characterization with 6517-series electrometers. The Keithley 8009 is a guarded resistivity test fixture for volume and surface resistivity measurements on insulator samples. Used with Keithley 6517 / 6517A / 6517B Electrometer/High Resistance Meters via a three-lug triaxial measure connector and safety banana source connections. Switchable volume/surface modes with stainless-steel electrodes and conductive rubber pads. Volume resistivity to $10^{18} \Omega\cdot\text{cm}$; surface resistivity to $10^{17} \Omega$; insulator material characterization with 6517-series electrometers.

No photo

MODEL

Keithley 8009

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

8009

LISTING

**Off-catalog — OEM data
sheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Volume resistivity range: 10^3 to 10^{18} $\Omega\cdot\text{cm}$
- Surface resistivity range: 10^3 to 10^{17} Ω
- Operating voltages: 1 kV peak source (safety banana plugs for 6517); 200 V peak measure (3-lug triax); 200 V peak common mode
- Test current: 0.1 A peak class; 1 VA
- Center electrode: 50.8 mm O.D. ± 0.05 mm (2.0 in) conductive rubber pad
- Ring electrode: 57.2 mm I.D. ± 0.05 mm (2.25 in)
- Top electrode: 85.7 mm O.D. ± 0.05 mm (3.375 in); 54 mm (2.125 in) conductive rubber pad
- Electrode concentricity: within 0.01 in of ring-electrode center
- Electrodes: stainless steel for corrosion resistance
- Modes: switchable volume/surface resistivity
- Safety: interlock system; dual safety banana jacks for 1 kV source connection
- Connector: three-lug triaxial to 6517/6517A/6517B
- Dimensions: ~ 108 mm H $\times$ 165 mm W $\times$ 140 mm D ($4.25 \times 6.5 \times 5.5$ in)
- Weight: ~ 1.45 kg (3.19 lb)

8009 Characteristics / Specifications

PARAMETER	VALUE
Model	8009
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Resistivity Test Fixture
Alias	8009; Keithley 8009 Resistivity Test Fixture Resistivity / Fixture Volume to $10^{18} \Omega\cdot\text{cm}$; surface to $10^{17} \Omega$; 6517-series compatible Operational Notes Prefer Keithley Model 8009 Resistivity Test Fixture Reference Manual 8009-901-01. Sample thickness/electrode geometry enter the resistivity equations—follow the manual for ASTM-style calculations.
Volume resistivity range	10^3 to $10^{18} \Omega\cdot\text{cm}$
Surface resistivity range	10^3 to $10^{17} \Omega$
Operating voltages	1 kV peak source (safety banana plugs for 6517); 200 V peak measure (3-lug triax); 200 V peak common mode
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Electrodes	stainless steel for corrosion resistance
Modes	switchable volume/surface resistivity
Safety	interlock system; dual safety banana jacks for 1 kV source connection
Connector	three-lug triaxial to 6517/6517A/6517B
Dimensions	~ 108 mm H $\times$ 165 mm W $\times$ 140 mm D (4.25 $\times$ 6.5 $\times$ 5.5 in)
Weight	~ 1.45 kg (3.19 lb)

8009 Specifications

PARAMETER	VALUE
Keithley 8009 Resistivity Test Fixture Reference	Overview
Applications	Volume resistivity to 10 ¹⁸ Ω·cm; surface resistivity to 10 ¹⁷ Ω; insulator material characterization with 6517-series electrometers.
Key Features	- Volume resistivity range: 10 ³ to 10 ¹⁸ Ω·cm
Technical Specifications	Model: 8009
Resistivity / Fixture	Volume to 10 ¹⁸ Ω·cm; surface to 10 ¹⁷ Ω; 6517-series compatible

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	8009
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Resistivity Test Fixture
Alias	8009; Keithley 8009 Resistivity Test Fixture

Resistivity / Fixture

Volume to 10^18 Ω·cm; surface to 10^17 Ω; 6517-series compatible

Operational Notes

Prefer Keithley Model 8009 Resistivity Test Fixture Reference Manual 8009-901-01. Sample thickness/electrode geometry enter the resistivity equations-follow the manual for ASTM-style calculations.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.