Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 6, 2026

KEITHLEY INSTRUMENTS

Keithley Instruments 5155

Keithley Instruments 5155 Megohm Resistance Standards The Keithley 5155 isaset of high-megohm resistance standards for electrometer calibration and high-resistance reference work. Six individually encased resistors in thermally lagged enclosures, BNC-terminated with provision for shielding/guarding. NIST-traceable certificate of actual values. Two casing variants exist historically: gray casing typically 10 MΩ through 1 TΩ decade steps; black casing typically 100 MΩ through 10 TΩ decade steps–confirm labels on the specific set. The Keithley 5155 isaset of high-megohm resistance standards for electrometer calibration and high-resistance reference work. Six individually encased resistors in thermally lagged enclosures, BNC-terminated with provision for shielding/guarding. NIST-traceable certificate of actual values. Two casing variants exist historically: gray casing typically 10 MΩ through 1 TΩ decade steps; black casing typically 100 MΩ through 10 TΩ decade steps–confirm labels on the specific set. Electrometer high-ohms verification; picoammeter/resistance calibration; guarded high-megohm reference.

MODEL	CALIBRATION
Keithley Instruments 5155	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
5155	https://aumictechlabs.com/products/5155-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley Instruments 5155 is a precision resistance calibration standard that delivers NIST-traceable decade resistors for validating test and measurement instruments across extended resistance ranges. Two configurations address different calibration requirements: the gray-cased

version spans 10 MΩ to 1 TΩ with ±0.1% to ±0.14% accuracy; the black-cased variant extends to 10 TΩ with ±15% nominal tolerance. Each resistor element is individually housed in a thermally lagged enclosure and terminated with BNC connectors for direct interface to calibration systems.Stability performance holds within ±0.1% change per year and per thousand operating hours.Technical Specifications Resistance Range (Gray Casing): Six decade values: 10 MΩ, 100 MΩ, 1 GΩ, 10 GΩ, 100 GΩ, 1 TΩ Accuracy: ±0.1% (10^{7} Ω to 10^{10} Ω), ±0.14% (10^{11} Ω to 10^{12} Ω) Temperature coefficient: ±0.01°C^{-1} (10 MΩ–10 GΩ); -0.1°C^{-1} (100 GΩ–1 TΩ) Voltage coefficient: <5 ppm/V Resistance Range (Black Casing): Six decade values: 100 MΩ, 1 GΩ, 10 GΩ, 100 GΩ, 1 TΩ, 10 TΩ Nominal tolerance: ±15% Temperature coefficient: -0.1°C^{-1} Voltage coefficient: -0.03%/V nominal Environmental Performance: Stability: <0.1% per year; <0.1% per 1000 hoursKey Features Six individually encased resistors in thermal-lag construction BNC connectors for instrumentation integration Shielding and guarding provisions included Calibration certificate with measured values and test conditions supplied Modular design: individual resistor elements available as separate part numbers (5155-7 through 5155-13)Physical Characteristics Per-resistor dimensions: 100 mm × 25 mm × 25 mm (4" × 1" × 1") Per-resistor weight: ~170 g (6 oz) Complete set weight: ~2.1 kg (4 lbs 10 oz)Typical Applications Calibration laboratory validation of ohmmeters and multimeters Quality assurance verification of resistance measurement systems High-resistance reference standards for precision testingCompatibility & Integration BNC terminations ensure direct connection to standard calibration equipment and precision measurement instruments requiring decade resistance references.

Features & description

From manufacturer datasheet

Features

• Six discrete high-megohm standards in thermal-lagged cases • Decade steps spanning tens of MΩ to TΩ class (variant dependent) • BNC terminations; shield/guard capable • Certificate with measured values and test conditions • Variants: 5155 gray (≈10 MΩ–1 TΩ); 5155 black (≈100 MΩ–10 TΩ)

5155 Characteristics / Specifications

PARAMETER	VALUE
Model	5155
Manufacturer	Keithley Instruments
Instrument Type	Megohm Resistance Standard Set
Alias	5155; Keithley 5155; 5155-9 calibration fixture class Resistance Six standards; exact values per certificate on the unit Operational Notes Prefer Keithley 5155 datasheet. Do not invent exact ohms beyond decade identity; use certificate.
Variants	5155 gray (≈10 MΩ–1 TΩ); 5155 black (≈100 MΩ–10 TΩ)

5155 Specifications

PARAMETER	VALUE
Keithley Instruments 5155 Megohm Resistance Standards	Overview
Technical Specifications	Model: 5155
Operational Notes	Prefer Keithley 5155 datasheet. Do not invent exact ohms beyond decade identity; use certificate.

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	5155
Manufacturer	Keithley Instruments
Instrument Type	Megohm Resistance Standard Set
Alias	5155; Keithley 5155; 5155-9 calibration fixture class

Resistance
Six standards; exact values per certificate on the unit

Operational Notes
Prefer Keithley 5155 datasheet. Do not invent exact ohms beyond decade identity; use certificate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 6, 2026