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Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 16074A

Keysight (Agilent) 16074A Calibration R-L Standard The HP/Agilent/Keysight 16074A is a four-terminal-pair calibration R-L standard kit for performance testing and calibration of 4TP LCR meters. Contains eight resistance standards (0 Ω through 100 k Ω), two quasi-inductance standards (100 μ H and 100 mH), and OPEN/SHORT terminations. Usable DC to about 13 MHz. Discontinued; operating note retained for reference. 4TP LCR meter calibration and performance verification; open/short/load compensation checks. The HP/Agilent/Keysight 16074A is a four-terminal-pair calibration R-L standard kit for performance testing and calibration of 4TP LCR meters. Contains eight resistance standards (0 Ω through 100 k Ω), two quasi-inductance standards (100 μ H and 100 mH), and OPEN/SHORT terminations. Usable DC to about 13 MHz. Discontinued; operating note retained for reference. 4TP LCR meter calibration and performance verification; open/short/load compensation checks.



MODEL

**Keysight / Agilent
16074A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16074A

LISTING

<https://aumictechlabs.com/products/16074a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 16074A is a calibration R-L standard fixture designed for calibration and performance testing of four-terminal-pair LCR meters. It delivers accurate impedance measurements across frequencies up to 13 MHz, making it essential for precision component evaluation and quality control in laboratory and industrial environments. Technical Specifications The 16074A operates with a four-terminal-pair configuration optimized for high-accuracy

measurements. It maintains performance to 13 MHz and includes eight resistance standards spanning from 0 Ω to 100 k Ω , plus two quasi-inductance standards and open/short terminations. Resistance standards are segmented by application: the 0 Ω through 100 Ω standards employ thin-film resistors with minimal residual resistance and stray capacitance, while the 100 Ω through 10 k Ω standards are shielded to suppress noise coupling. Standards from 0 Ω to 100 Ω are optimized for phase measurement calibration with minimal residual reactance. Higher-value standards (1 k Ω , 10 k Ω , 100 k Ω) are calibrated for resistance measurement with $\pm 0.1\%$ accuracy. Quasi-inductance standards (100 μH and 100 mH) are constructed using two resistors and one capacitor to synthesize equivalent inductance. Users must measure equivalent inductance values before operation to confirm LCR meter inductance measurement functionality.

Key Features

- Eight resistance standards: 0 Ω , 0.1 Ω , 1 Ω , 10 Ω , 100 Ω , 1 k Ω , 10 k Ω , 100 k Ω
- Two quasi-inductance standards: 100 μH and 100 mH
- OPEN and SHORT terminations for zero offset compensation
- Four-terminal-pair configuration for minimized lead effects
- Thin-film resistor construction for low parasitic reactance
- Shielded standards (100 Ω –10 k Ω) to reduce noise interference
- $\pm 0.1\%$ accuracy on 1 k Ω , 10 k Ω , and 100 k Ω standards
- $\pm 10\%$ basic accuracy on 0.1 Ω to 100 Ω standards (phase-calibrated)
- Compact, portable design for laboratory mobility

Typical Applications

- Calibration verification of HP and Agilent LCR meters; component impedance characterization; quality control testing in manufacturing; phase and resistance measurement validation.

Compatibility & Integration

Designed specifically for HP and Agilent four-terminal-pair LCR meters. Connects directly to the LCR meter's UNKNOWN terminals or via optional four-terminal-pair cable (P/N: 16074-61600).

Features & description

From manufacturer datasheet

Features

- Resistance standards: 0 Ω , 0.1 Ω , 1 Ω , 10 Ω , 100 Ω , 1 k Ω , 10 k Ω , 100 k Ω
- Inductance standards: 100 μ H and 100 mH (quasi-inductance)
- Terminations: OPEN and SHORT
- Four-terminal-pair configuration
- Frequency: DC to ~13 MHz
- Low residual reactance film resistors on low-ohm standards; shielded high-ohm standards

16074A Characteristics / Specifications

PARAMETER	VALUE
Model	16074A
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Calibration R-L Standard Kit
Alias	16074A; HP 16074A; Agilent 16074A Standards
Resistance standards	0 Ω , 0.1 Ω , 1 Ω , 10 Ω , 100 Ω , 1 k Ω , 10 k Ω , 100 k Ω
Inductance standards	100 μ H and 100 mH (quasi-inductance)
Terminations	OPEN and SHORT
Frequency	DC to ~13 MHz

16074A Specifications

PARAMETER	VALUE
Applications	4TP LCR meter calibration and performance verification; open/short/load compensation checks.
Key Features	- Resistance standards: 0 Ω , 0.1 Ω , 1 Ω , 10 Ω , 100 Ω , 1 k Ω , 10 k Ω , 100 k Ω
Technical Specifications	Model: 16074A
Standards	R: 0 Ω –100 k Ω (8 values); L: 100 μ H, 100 mH; Open/Short
Operational Notes	Prefer HP 16074A Operating Note 16074-90001. Use certificate values on the kit.

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.

performance testing and calibration of 4TP LCR meters. Contains eight resistance standards (0 Ω through 100 k Ω), two quasi-inductance standards (100 μ H and 100 mH), and OPEN/SHORT terminations. Usable DC to about 13 MHz. Discontinued; operating note retained for reference.

Applications

4TP LCR meter calibration and performance verification; open/short/load compensation checks.

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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>

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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.