

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 42090A Open Termination, 4-Terminal Pair

Keysight (Agilent) 42090A Open Termination, 4-Terminal Pair The Keysight/Agilent 42090A is a 4-terminal-pair open termination standard for performance tests and open compensation of Keysight 4TP LCR meters and impedance analyzers. Used with instruments such as 4284A/4285A and related precision LCR families. Companion short is 42091A. 4TP open compensation and performance verification. The Keysight/Agilent 42090A is a 4-terminal-pair open termination standard for performance tests and open compensation of Keysight 4TP LCR meters and impedance analyzers. Used with instruments such as 4284A/4285A and related precision LCR families. Companion short is 42091A. 4TP open compensation and performance verification.



MODEL

**Keysight / Agilent
42090A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

42090A

LISTING

<https://aumictechlabs.com/products/42090a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 42090A Open Termination is a 4-terminal pair calibration accessory that establishes a defined open circuit condition for high-precision impedance measurements. It is a critical verification tool for LCR meters and impedance analyzers, enabling accurate compensation of residual and parasitic impedances inherent in test fixtures. By providing a known

open reference, the 42090A allows engineers to baseline measurements and quantify fixture effects such as stray capacitance and inductance - essential for reliable characterization of both low and high impedance devices.

Technical Specifications

Connection Type: 4-Terminal Pair with BNC connector interface

Physical Dimensions: 94 mm (width) × 31 mm (height) × 67 mm (depth)

Weight: 120 g (0.26 lbs)

Function: Open circuit termination for calibration and performance verification

Key Features

- Provides repeatable open circuit reference for impedance measurement calibration
- Enables parasitic element compensation in 4-terminal pair test configurations
- Compact form factor suitable for bench and automated test environments
- BNC connector interface for direct integration with impedance measurement systems

Typical Applications

- Calibration and verification of 4-terminal pair LCR meters
- Performance validation of impedance analyzers
- Fixture characterization and de-embedding workflows
- Baseline measurement establishment in precision impedance testing
- Quantification of test setup parasitic elements

Compatibility & Integration

The 42090A is compatible with Keysight precision impedance instruments including the E4980A, E4980AL, E4981A, and E4990A families. Legacy compatibility extends to Agilent 4285A, 4288A, and 4294A systems. Reference the applicable instrument operation or service manual for detailed integration procedures and calibration protocols.

Features & description

From manufacturer datasheet

Features

- Model: 42090A • Function: Open termination, 4-terminal pair • Use: Performance tests of 4TP LCR meters and impedance analyzers • Companion: 42091A short termination

42090A Characteristics / Specifications

PARAMETER	VALUE
Model	42090A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	4-Terminal-Pair Open Termination
Alias	42090A; Agilent 42090A Electrical
Role	Precision open standard for 4TP impedance instruments Operational Notes Refer to host instrument operation/service manual for use. Do not invent residual capacitance figures without OEM tables.
Function	Open termination, 4-terminal pair
Use	Performance tests of 4TP LCR meters and impedance analyzers
Companion	42091A short termination

42090A Specifications

PARAMETER	VALUE
Applications	4TP open compensation and performance verification.
Key Features	- Model: 42090A
Technical Specifications	Model: 42090A
Electrical	Role: Precision open standard for 4TP impedance instruments

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 tests and open compensation of Keysight 4TP LCR meters and impedance analyzers. Used with instruments such as 4284A/4285A and related precision LCR families. Companion short is 42091A.

Applications

4TP open compensation and performance verification.

Key Features

- Model: 42090A
- Function: Open termination, 4-terminal pair
- Use: Performance tests of 4TP LCR meters and impedance analyzers
- Companion: 42091A short termination

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	42090A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	4-Terminal-Pair Open Termination
Alias	42090A; Agilent 42090A

Electrical

Role: Precision open standard for 4TP impedance instruments

Operational Notes

Refer to host instrument operation/service manual for use. Do not invent residual capacitance figures without OEM tables.

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 5, 2026

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