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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 42091A Short Termination, 4-Terminal Pair

Keysight (Agilent) 42091A Short Termination, 4-Terminal Pair The Keysight/Agilent 42091A is a 4-terminal-pair short termination standard used for performance tests and compensation of Keysight 4TP LCR meters and impedance analyzers (e.g., 4284A/4285A/E4980 family accessory sets). Use per the host instrument operation/service manual. 4TP short compensation and performance verification on precision LCR/impedance instruments. The Keysight/Agilent 42091A is a 4-terminal-pair short termination standard used for performance tests and compensation of Keysight 4TP LCR meters and impedance analyzers (e.g., 4284A/4285A/E4980 family accessory sets). Use per the host instrument operation/service manual. 4TP short compensation and performance verification on precision LCR/impedance instruments.



MODEL Keysight / Agilent 42091A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 42091A	LISTING https://aumictechlabs.com/products/42091a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) 42091A is a precision short termination accessory engineered for 4-terminal pair (Kelvin) connections. It establishes a low-impedance reference point essential for accurate calibration and characterization of impedance measurement equipment. By providing a well-defined, repeatable short circuit, the 42091A minimizes residual inductance and resistance at

measurement terminals, enhancing accuracy across higher frequencies. Technical Specifications
Connection Type: 4-Terminal Pair (Kelvin) Nominal Impedance: Near-zero impedance across
operational frequency range Residual Inductance: Exceptionally low Residual Resistance:
Extremely low Connector Type: Precision-manufactured connectors for 4-terminal pair
connections Key Features Minimizes errors from residual inductance and resistance in test leads
and fixtures Provides repeatable, well-defined short circuit reference Precision manufacturing
ensures consistent performance Durable construction maintains electrical performance in
laboratory and production environments Compact, bench-friendly design Typical Applications
Calibration of impedance analyzers Calibration of LCR meters Residual impedance compensation
procedures High-frequency impedance characterization Compatibility & Integration The 42091A
works with impedance analyzers and LCR meters employing 4-terminal pair measurement
techniques. Its legacy Agilent branding indicates compatibility with older model test instruments
utilizing this connection architecture.

Features & description

From manufacturer datasheet

Features

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

42091A Characteristics / Specifications

PARAMETER	VALUE
Model	42091A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	4-Terminal-Pair Short Termination
Alias	42091A; Agilent 42091A Electrical
Role	Precision short standard for 4TP impedance instruments Operational Notes Refer to host LCR/impedance analyzer service manual for connection method and residual limits. Do not invent resistance values beyond OEM identity.
Function	Short termination, 4-terminal pair
Use	Performance tests of 4TP LCR meters and impedance analyzers
Companion	42090A open termination

42091A Specifications

PARAMETER	VALUE
Applications	4TP short compensation and performance verification on precision LCR/impedance instruments.
Key Features	- Model: 42091A
Technical Specifications	Model: 42091A
Electrical	Role: Precision short 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 compensation of Keysight 4TP LCR meters and impedance analyzers (e.g., 4284A/4285A/E4980 family accessory sets). Use per the host instrument operation/service manual.

Applications

4TP short compensation and performance verification on precision LCR/impedance instruments.

Key Features

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

Technical Specifications

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PARAMETER	VALUE
Model	42091A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	4-Terminal-Pair Short Termination
Alias	42091A; Agilent 42091A

Electrical

Role: Precision short standard for 4TP impedance instruments

Operational Notes

Refer to host LCR/impedance analyzer service manual for connection method and residual limits. Do not invent resistance values beyond OEM identity.

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

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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.