

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85051B Verification Kit, 7 mm

Humidity Type Tested: 0 percent to 95 percent at 40 C non-condensing Function: verify measurement calibration and that the VNA system operates within specifications Form Factor: foam-lined verification kit with serialized devices Literature: Keysight 85051B verification kit user's and service guide Function: verify measurement calibration and that the VNA system operates within specifications Form Factor: foam-lined verification kit with serialized devices Literature: Keysight 85051B verification kit user's and service guide Uncertainty Limits: factory uncertainty limits included with the verification data for system verification



MODEL

**Agilent / Keysight
85051B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85051B

LISTING

<https://aumictechlabs.com/products/85051b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85051B Verification Kit is a precision standard set designed to verify the calibration performance and measurement accuracy of 7 mm network analyzers. This kit contains mechanical and electrical standards with known characteristics traceable to the U.S. National Institute of Standards and Technology (NIST), enabling independent validation of analyzer performance across the full operating bandwidth. Technical Specifications Connector Type: 7 mm Frequency Range: 300 kHz to 18 GHz Traceability: NIST-traceable measurement data and uncertainties Key Features The kit comprises ten precision standards selected to thoroughly characterize network analyzer performance. Components include 10 cm and 50 Ω airlines, stepped impedance airline, 20 dB and 50 dB attenuators, 25 Ω mismatch airline, and open-end

wrench. Mechanical characteristics are verified through specialized gaging processes; electrical characteristics are confirmed through rigorous testing. All factory-measured verification data is provided on USB drive and individual datasheets, with anti-virus scan report included. Each standard exhibits known electrical behavior traceable to Keysight reference standards and NIST. The kit arrives in a foam-lined storage box with protective caps and comprehensive user and service documentation.

Typical Applications Use this kit to independently verify network analyzer calibration integrity and measurement system performance. Validation can be performed at any point during analyzer operation, serving as a confidence check on calibration accuracy without requiring analyzer recalibration. The kit functions as a transfer standard for measurement traceability chains.

Compatibility & Integration Designed for use with Keysight 7 mm calibration kits (85050B/C/D series). Compatible with Keysight PNA series network analyzers and legacy Agilent 8510, 8719, 8720, and 8722 series instruments. Installation requires selection of the appropriate calibration kit definition within analyzer memory or external media prior to use. Recertification of the verification kit itself requires return to Keysight Technologies, as specialized measurement equipment is not commercially available.

85051B Characteristics / Specifications

PARAMETER	VALUE
Model	85051B
Instrument Type	Network analyzer verification kit
Connector Type	7 mm
Frequency Range	45 MHz to 18 GHz
Attenuators	20 dB and 50 dB attenuators with data
Airline 50 Ohm	50 ohm airline with factory-measured data
Airline 25 Ohm	25 ohm mismatch airline with factory-measured data
Traceability	factory characterization traceable to Keysight golden standard / NIST path
Data Media	USB drive or data disks with factory-measured verification S-parameters
Data Sheets	printed data sheet for each device
Companion Calibration Kits	85050B/C/D 7 mm calibration kits
Operating Temperature	+20 C to +26 C
Storage Temperature	minus 40 C to +71 C
Error Corrected Temperature	plus or minus 1 C of measurement calibration temperature
Operating Altitude	less than 4500 meters (about 15000 feet)
Storage Altitude	less than 15000 meters (about 50000 feet)
Humidity Type Tested	0 percent to 95 percent at 40 C non-condensing
Function	verify measurement calibration and that the VNA system operates within specifications
Form Factor	foam-lined verification kit with serialized devices
Literature	Keysight 85051B verification kit user's and service guide
Uncertainty Limits	factory uncertainty limits included with the verification data for system verification
Recertification	return the kit to Keysight for recertification of the golden-standard data
Impedance	50 ohm coaxial

PARAMETER	VALUE
Ports	two-port verification devices
Open End Wrench	included
Attenuator 20 Db	20 dB attenuator with factory data
Attenuator 50 Db	50 dB attenuator with factory data
Torque 7 Mm Family	136 N-cm (12 in-lb) class of 7 mm 85050 kits
Humidity	Type Tested: 0 percent to 95 percent at 40 C non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to +71 C
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Impedance	50 ohm coaxial
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Open End Wrench	included
Attenuator 20 Db	20 dB attenuator with factory data
Attenuator 50 Db	50 dB attenuator with factory data
Torque 7 Mm Family	136 N-cm (12 in-lb) class of 7 mm 85050 kits Notes From Agilent/Keysight 85051B 7 mm Verification Kit user's and service guide (45 MHz to 18 GHz, 20/50 dB attenuators, 50 ohm and 25 ohm airlines, 85050B/C/D companions). Electrical performance is the kit-specific factory data, not a single return-loss table.

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	
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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
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<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.