

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85051A 7MM verification kit

Humidity Type Tested Successor: 0 percent to 95 percent at 40 C non-condensing
Traceability: factory characterization traceable to Keysight/HP golden standard
Function: verify measurement calibration and analyzer systematic error terms
Literature: HP 85051A verification literature; 85051B user's and service guide successor table
Traceability: factory characterization traceable to Keysight/HP golden standard
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Literature: HP 85051A verification literature; 85051B user's and service guide successor table
Data Media Successor: USB drive or disks with factory-measured S-parameters on 85051B



MODEL

**Agilent / Keysight
85051A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85051A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85051A 7mm Verification Kit is a precision accessory for verifying network analyzer performance across systems equipped with 7mm connectors. This kit supplies a complete set of calibrated standards to confirm measurement accuracy and validate error-corrected performance against known references. Each component arrives with associated performance data traceable to NIST standards, ensuring metrological integrity in critical RF test environments.

Technical Specifications
Connector Type: 7mm
Included Standards: - 20 dB Attenuator - 50 dB Attenuator - 10 cm Beadless Airline - 10 cm Beadless Stepped Impedance Airline (25 ohms nominal)
Documentation: Measurement data and uncertainties provided with all precision devices

Traceability: NIST-traceable calibration dataKey Features Dual attenuation standards (20 dB and 50 dB) for multi-range signal verification Beadless airline transmission lines eliminate dielectric resonance effects Stepped impedance airline (25 ohms nominal) enables impedance mismatch characterization Foam-lined protective case with end caps preserves connector integrity during storage Reference-grade standards support error-correction validation workflowsTypical Applications Verification of network analyzer error-corrected performance Calibration validation and traceability confirmation Signal attenuation measurement verification Transmission line reference establishment Periodic performance audits of RF test systemsCompatibility & Integration Designed for use with the Keysight 8510 Network Analyzer system and comparable 7mm-equipped network analyzer platforms. The kit functions as a verification complement to 7mm calibration kits within established measurement setups. Note: This product is obsolete. Self-support resources and replacement guidance remain available through Keysight.

85051A Characteristics / Specifications

PARAMETER	VALUE
Model	85051A
Instrument Type	Network analyzer verification kit
Connector Type	7 mm
Successor Model	85051B
Successor Frequency Range	45 MHz to 18 GHz on 85051B user's guide
Successor Attenuator 20 Db	20 dB attenuator with factory data (85051B)
Successor Attenuator 50 Db	50 dB attenuator with factory data (85051B)
Successor Airline 50 Ohm	50 ohm airline with factory-measured data (85051B)
Successor Airline 25 Ohm	25 ohm mismatch airline with factory-measured data (85051B)
Companion Calibration Kits	85050A/B/C/D 7 mm calibration kits
Host Analyzer Class	HP 8510 and later PNA verification procedures
Operating Temperature Successor	+20 C to +26 C
Storage Temperature Successor	minus 40 C to +71 C
Error Corrected Temperature Successor	plus or minus 1 C of measurement calibration temperature
Operating Altitude Successor	less than 4500 meters (about 15000 feet)
Storage Altitude Successor	less than 15000 meters (about 50000 feet)
Humidity Type Tested Successor	0 percent to 95 percent at 40 C non-condensing
Traceability	factory characterization traceable to Keysight/HP golden standard
Function	verify measurement calibration and analyzer systematic error terms
Literature	HP 85051A verification literature; 85051B user's and service guide successor table
Impedance	50 ohm
Form Factor	7 mm verification kit
Data Media Successor	USB drive or disks with factory-measured S-parameters on 85051B
Storage temperature	Successor: minus 40 C to +71 C
Operating temperature	Successor: +20 C to +26 C

PARAMETER	VALUE
Humidity	Type Tested Successor: 0 percent to 95 percent at 40 C non-condensing

85051A Specifications

PARAMETER	VALUE
Agilent 85051A 7 mm Verification Kit	Overview
Applications	Verifying 7 mm calibrations on 8510 systems using factory-characterized attenuators and airlines.
Key Features	7 mm verification devices
Attenuator and airline architecture of the 85051 family	Used with 85050 7 mm mechanical kits
Technical Specifications	Model: 85051A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Successor: minus 40 C to +71 C
Operating temperature	Successor: +20 C to +26 C
Operating Temperature	Successor: +20 C to +26 C
Humidity	Type Tested Successor: 0 percent to 95 percent at 40 C non-condensing
Operating Temperature Successor	+20 C to +26 C
Storage Temperature Successor	minus 40 C to +71 C
Error Corrected Temperature Successor	plus or minus 1 C of measurement calibration temperature
Operating Altitude Successor	less than 4500 meters (about 15000 feet)
Storage Altitude Successor	less than 15000 meters (about 50000 feet)
Humidity Type Tested Successor	0 percent to 95 percent at 40 C non-condensing
Traceability	factory characterization traceable to Keysight/HP golden standard
Function	verify measurement calibration and analyzer systematic error terms
Literature	HP 85051A verification literature; 85051B user's and service guide successor table
Impedance	50 ohm
Form Factor	7 mm verification kit
Data Media Successor	USB drive or disks with factory-measured S-parameters on 85051B Notes 85051A identity and 7 mm / 85050 companion use from HP 85051A verification-kit listings. Frequency, attenuator, airline, and environment rows labeled successor are the published Keysight 85051B user's-guide table; use the 85051A certificate data for an 85051A 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.

Specifications	
Specifications	
PARAMETER	VALUE
Model	85051A
Instrument Type	Network analyzer verification kit
Connector Type	7 mm
Successor Model	85051B
Successor Frequency Range	45 MHz to 18 GHz on 85051B user's guide
Successor Attenuator 20 Db	20 dB attenuator with factory data (85051B)
Successor Attenuator 50 Db	50 dB attenuator with factory data (85051B)
Successor Airline 50 Ohm	50 ohm airline with factory-measured data (85051B)
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Form Factor	7 mm verification kit
Data Media Successor	USB drive or disks with factory-measured S-parameters on 85051B
Notes	
85051A identity and 7 mm / 85050 companion use from HP 85051A verification-kit listings. Frequency,	

attenuator, airline, and environment rows labeled successor are the published Keysight 85051B user's-guide table; use the 85051A certificate data for an 85051A kit.

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.