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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85050A 7MM calibration kit

Agilent 85050A 7 mm Precision Calibration Kit to 18 GHz The HP 85050A is a 7 mm precision mechanical calibration kit for 8510-family network analyzers. OEM 85050A product literature lists open and short circuits, fixed and sliding terminations, and a precision 7 mm connector gage, with code 010 adding a 30 cm beadless airline for time-domain work and code 020 deleting the gage set. Precision 7 mm OSL and sliding-load calibration of 8510 systems measuring 7 mm devices. Open, short, fixed, and sliding 7 mm terminations The HP 85050A is a 7 mm precision mechanical calibration kit for 8510-family network analyzers. OEM 85050A product literature lists open and short circuits, fixed and sliding terminations, and a precision 7 mm connector gage, with code 010 adding a 30 cm beadless airline for time-domain work and code 020 deleting the gage set. Precision 7 mm OSL and sliding-load calibration of 8510 systems measuring 7 mm devices. Open, short, fixed, and sliding 7 mm terminations Precision 7 mm connector gage and tools (unless code 020)



MODEL

**Agilent / Keysight
85050A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85050A

LISTING

<https://aumictechlabs.com/products/85050a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85050A is a precision 7mm calibration kit for network analyzer system error correction. It eliminates systematic measurement errors across RF and microwave frequencies, enabling accurate device characterization. The kit delivers traceable calibration standards and

verification tools essential for maintaining measurement integrity in automated test environments. Technical Specifications Frequency Range: 45 MHz to 18 GHz Connector Type: 7mm

Key Features The 85050A includes precision calibration standards covering open, short, and fixed termination circuits. A sliding termination standard accommodates mechanical tuning applications. A 7mm connector gage and connector interface maintenance tools ensure proper mating surface geometry and repeatability. Kit composition supports both one-port and two-port error correction algorithms used in contemporary network analyzers.

Typical Applications Calibration of passive RF and microwave devices - filters, amplifiers, attenuators, and antennas. Component measurement in manufacturing and incoming inspection. Impedance and reflection coefficient characterization across the 45 MHz to 18 GHz band. System performance validation and uncertainty quantification in metrology-grade measurement setups.

Compatibility & Integration Designed for the Agilent 8510 Network Analyzer system. The 7mm connector interface accommodates instruments and fixtures using this industry-standard connector. Comprehensive user and service documentation, including kit contents and maintenance procedures, is available through the associated 85050B reference guide.

85050A Characteristics / Specifications

PARAMETER	VALUE
Model	85050A
Instrument Type	Precision mechanical calibration kit
Connector Type	7 mm
Frequency Range Listing	45 MHz to 18 GHz on 8510-era 85050A product listings
Kit Contents	open and short circuits, fixed and sliding terminations, precision 7 mm connector gage and tools
Airline Code 0	precision 30 cm beadless airline useful in time-domain applications
Gage Delete Code 0	deletes precision 7 mm connector gage and tools
Host Analyzer Class	HP 8510 Network Analyzer system
Impedance	50 ohm
Related Verification Kit	85051A/B 7 mm verification kits
Successor Precision Kit	85050B 7 mm precision kit with published Table 2-3 electrical specifications
Successor Lowband Load RI	85050B Table 2-3 lowband loads greater than or equal to 52 dB DC to 2 GHz
Successor Broadband Load RI	85050B Table 2-3 broadband loads greater than or equal to 38 dB DC to 18 GHz
Successor Sliding Load RI	85050B Table 2-3 sliding loads greater than or equal to 52 dB DC to 18 GHz assuming proper usage
Successor Short Phase Dc To 2 Ghz	85050B plus or minus 0.2 deg from nominal DC to 2 GHz
Successor Short Phase 2 To 8 Ghz	85050B plus or minus 0.3 deg from nominal 2 to 8 GHz
Successor Short Phase 8 To 18 Ghz	85050B plus or minus 0.5 deg from nominal 8 to 18 GHz
Successor Open Phase Dc To 2 Ghz	85050B plus or minus 0.3 deg from nominal DC to 2 GHz
Successor Open Phase 2 To 8 Ghz	85050B plus or minus 0.4 deg from nominal 2 to 8 GHz
Successor Open Phase 8 To 18 Ghz	85050B plus or minus 0.6 deg from nominal 8 to 18 GHz
Torque 7 Mm Family	136 N-cm (12 in-lb) plus or minus 13.6 N-cm on 85050B Table 3-1 7 mm torque
Operating Temperature Successor	+20 C to +26 C on 85050B Table 2-1

PARAMETER	VALUE
Literature	HP 85050A operation and service literature plus 85050B user's guide 85050-90050 successor table
Form Factor	7 mm precision mechanical calibration kit
Operating temperature	Successor: +20 C to +26 C on 85050B Table 2-1

85050A Specifications

PARAMETER	VALUE
Agilent 85050A 7 mm Precision Calibration Kit to 18 GHz	Overview
Applications	Precision 7 mm OSL and sliding-load calibration of 8510 systems measuring 7 mm devices.
Key Features	Open, short, fixed, and sliding 7 mm terminations
Code 010 30 cm beadless airline	Predecessor to 85050B/C/D 7 mm kits
Technical Specifications	Model: 85050A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Successor: +20 C to +26 C on 85050B Table 2-1
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Operating Temperature Successor	+20 C to +26 C on 85050B Table 2-1
Literature	HP 85050A operation and service literature plus 85050B user's guide 85050-90050 successor table
Form Factor	7 mm precision mechanical calibration kit Notes 85050A kit contents, 8510 use, code 010 30 cm airline, and code 020 gage-delete from HP 85050A product literature. Electrical return-loss and open/short phase rows are the published Keysight 85050B Table 2-3 successor specifications (85050-90050); apply 85050A-only limits from the 85050A certificate when they differ.

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	85050A
Instrument Type	Precision mechanical calibration kit
Connector Type	7 mm
Frequency Range Listing	45 MHz to 18 GHz on 8510-era 85050A product listings
Kit Contents	open and short circuits, fixed and sliding terminations, precision 7 mm connector gage and tools
Airline Code 010	precision 30 cm beadless airline useful in time-domain applications
Gage Delete Code 020	deletes precision 7 mm connector gage and tools
Host Analyzer Class	HP 8510 Network Analyzer system
Impedance	50 ohm
Related Verification Kit	85051A/B 7 mm verification kits
Successor Precision Kit	85050B 7 mm precision kit with published Table 2-3 electrical specifications
Successor Lowband Load R1	85050B Table 2-3 lowband loads greater than or equal to 52 dB DC to 2 GHz
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Successor Short Phase 2 To 8 Ghz	85050B plus or minus 0.3 deg from nominal 2 to 8 GHz
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Successor Open Phase Dc To 2 Ghz	85050B plus or minus 0.3 deg from nominal DC to 2 GHz
Successor Open Phase 2 To 8 Ghz	85050B plus or minus 0.4 deg from nominal 2 to 8 GHz
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Torque 7 Mm Family	136 N-cm (12 in-lb) plus or minus 13.6 N-cm on 85050B Table 3-1 7 mm torque
Operating Temperature Successor	+20 C to +26 C on 85050B Table 2-1
Literature	HP 85050A operation and service literature plus 85050B user's guide 85050-90050 successor table

PARAMETER

VALUE

Form Factor

7 mm precision mechanical calibration kit

Notes

85050A kit contents, 8510 use, code 010 30 cm airline, and code 020 gage-delete from HP 85050A product literature. Electrical return-loss and open/short phase rows are the published Keysight 85050B Table 2-3 successor specifications (85050-90050); apply 85050A-only limits from the 85050A certificate when they differ.

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 ·
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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.