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Test & measurement · bought, sold, repaired, calibrated

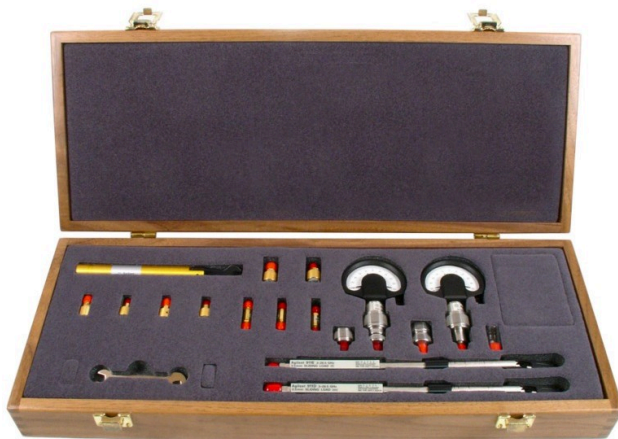
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85052B Standard Mechanical Calibration Kit, DC to 26.5 GHz, 3.5 mm

Storage Temperature Class: minus 40 C to +75 C class of 85052 kits Error Corrected Temperature Class: plus or minus 1 C of measurement calibration temperature Related Economy Kit: 85052D omits sliding loads and uses the same broadband-load/open/short table From Keysight 85052B 3.5 mm Calibration Kit User's and Service Guide Table 2-3. Sliding-load specification assumes proper usage as footnoted in that table. Environment class matches the 85052D Table 2-1 window used for the 3.5 mm 85052 family. Error Corrected Temperature Class: plus or minus 1 C of measurement calibration temperature Related Economy Kit: 85052D omits sliding loads and uses the same broadband-load/open/short table From Keysight 85052B 3.5 mm Calibration Kit User's and Service Guide Table 2-3. Sliding-load specification assumes proper usage as footnoted in that table. Environment class matches the 85052D Table 2-1 window used for the 3.5 mm 85052 family.



MODEL

**Agilent / Keysight
85052B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85052B

LISTING

<https://aumictechlabs.com/products/85052b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85052B Standard Mechanical Calibration Kit is a precision instrument for characterizing and correcting systematic errors in network analyzers operating from DC to 26.5

GHz. Built around 3.5 mm connectors and 50 Ω impedance, this kit enables full two-port calibration and delivers traceable measurements across the entire frequency range.

Technical Specifications
Frequency Range: DC to 26.5 GHz
Connector Type: 3.5 mm (Precision Slotless Connectors, PSC-3.5)
Impedance: 50 Ω
Calibration Type: Full two-port
Operating Temperature: +20 °C to +26 °C
Storage Temperature: -40 °C to +75 °C
Error-Corrected Range (Ambient Temperature Drift): ± 1 °C

Key Features
Metrology-grade calibration standards: offset opens, offset shorts, broadband loads, and sliding load terminations optimized to 26.5 GHz
PSC-3.5 female connectors ensure stable impedance based solely on conductor geometry, independent of mating pin diameter variation
Three 3.5 mm adapters (socket/socket, plug/socket, plug/plug) for non-insertable device measurement and connector preservation
Complete gaging toolkit: 3.5 mm gage sets, centering bead, and 5/16 in torque wrench (90 N-cm / 8 in-lb) for connector verification and maintenance
Includes commercial calibration certificate and documentation disk sets containing calibration definitions for 8510 and 872x systems

Typical Applications
Network analyzer calibration and systematic error characterization across microwave and millimeter-wave frequencies.
Suitable for S-parameter measurements, gain/phase tracking, and insertion loss verification where traceability and measurement repeatability are critical.

Compatibility & Integration
Designed for Keysight network analyzer platforms including 8510 and 872x series systems. Kit documentation and data files support direct integration with these instruments.

85052B Characteristics / Specifications

PARAMETER	VALUE
Model	85052B
Instrument Type	Mechanical calibration kit
Connector Type	3.5 mm
Frequency Range	DC to 26.5 GHz
Load Return Loss Dc To 2 Ghz	greater than or equal to 46 dB (rho less than or equal to 0.00501)
Load Return Loss 2 To 3 Ghz	greater than or equal to 44 dB (rho less than or equal to 0.00631)
Load Return Loss 3 To 8 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.01259)
Load Return Loss 8 To 20 Ghz	greater than or equal to 36 dB (rho less than or equal to 0.01585)
Load Return Loss 20 To 26p5 Ghz	greater than or equal to 34 dB (rho less than or equal to 0.01995)
Sliding Load Return Loss 3 To 26p5 Ghz	greater than or equal to 44 dB (rho less than or equal to 0.00631)
Offset Open Dc To 3 Ghz	plus or minus 0.65 deg from nominal
Offset Open 3 To 8 Ghz	plus or minus 1.20 deg from nominal
Offset Open 8 To 26p5 Ghz	plus or minus 2.00 deg from nominal
Offset Short Dc To 3 Ghz	plus or minus 0.50 deg from nominal
Offset Short 3 To 8 Ghz	plus or minus 1.00 deg from nominal
Offset Short 8 To 26p5 Ghz	plus or minus 1.75 deg from nominal
Adapter Return Loss Dc To 8 Ghz	greater than or equal to 30 dB (rho less than or equal to 0.03162)
Adapter Return Loss 8 To 18 Ghz	greater than or equal to 28 dB (rho less than or equal to 0.03981)
Adapter Return Loss 18 To 26p5 Ghz	greater than or equal to 26 dB (rho less than or equal to 0.05012)
Operating Temperature Class	+20 C to +26 C class of 85052 3.5 mm kits
Storage Temperature Class	minus 40 C to +75 C class of 85052 kits
Error Corrected Temperature Class	plus or minus 1 C of measurement calibration temperature
Related Economy Kit	85052D omits sliding loads and uses the same broadband-load/open/short table
Torque 3p5 Mm	90 N-cm (8 in-lb)
Storage temperature	Class: minus 40 C to +75 C class of 85052 kits

PARAMETER	VALUE
Operating temperature	Class: +20 C to +26 C class of 85052 3.5 mm kits
Return loss	Dc To 2 Ghz: greater than or equal to 46 dB (rho less than or equal to 0.00501)

85052B Specifications

PARAMETER	VALUE
Applications	Precision OSL and sliding-load calibration of 3.5 mm devices to 26.5 GHz.
Key Features	Broadband loads plus sliding loads
Offset opens and shorts to 26.5 GHz	Precision 3.5 mm adapters
Technical Specifications	Model: 85052B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to +75 C class of 85052 kits
Operating temperature	Class: +20 C to +26 C class of 85052 3.5 mm kits
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Operating Temperature Class	+20 C to +26 C class of 85052 3.5 mm kits
Storage Temperature Class	minus 40 C to +75 C class of 85052 kits
Error Corrected Temperature Class	plus or minus 1 C of measurement calibration temperature
Related Economy Kit	85052D omits sliding loads and uses the same broadband-load/open/short table
Torque 3p5 Mm	90 N-cm (8 in-lb) Notes From Keysight 85052B 3.5 mm Calibration Kit User's and Service Guide Table 2-3. Sliding-load specification assumes proper usage as footnoted in that table. Environment class matches the 85052D Table 2-1 window used for the 3.5 mm 85052 family.

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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PARAMETER	VALUE
Model	85052B
Instrument Type	Mechanical calibration kit
Connector Type	3.5 mm
Frequency Range	DC to 26.5 GHz
Load Return Loss Dc To 2 Ghz	greater than or equal to 46 dB (rho less than or equal to 0.00501)
Load Return Loss 2 To 3 Ghz	greater than or equal to 44 dB (rho less than or equal to 0.00631)
Load Return Loss 3 To 8 Ghz	greater than or equal to 38 dB (rho less than or equal to 0.01259)
Load Return Loss 8 To 20 Ghz	greater than or equal to 36 dB (rho less than or equal to 0.01585)
Load Return Loss 20 To 26p5 Ghz	greater than or equal to 34 dB (rho less than or equal to 0.01995)
Sliding Load Return Loss 3 To 26p5 Ghz: greater than or equal to 44 dB (rho less than or equal to 0.00631)	
Specifications	
PARAMETER	VALUE
Offset Open Dc To 3 Ghz	plus or minus 0.65 deg from nominal
Offset Open 3 To 8 Ghz	plus or minus 1.20 deg from nominal
Offset Open 8 To 26p5 Ghz	plus or minus 2.00 deg from nominal
Offset Short Dc To 3 Ghz	plus or minus 0.50 deg from nominal
Offset Short 3 To 8 Ghz	plus or minus 1.00 deg from nominal
Offset Short 8 To 26p5 Ghz	plus or minus 1.75 deg from nominal
Adapter Return Loss Dc To 8 Ghz	greater than or equal to 30 dB (rho less than or equal to 0.03162)
Adapter Return Loss 8 To 18 Ghz	greater than or equal to 28 dB (rho less than or equal to 0.03981)
Adapter Return Loss 18 To 26p5 Ghz	greater than or equal to 26 dB (rho less than or equal to 0.05012)
Operating Temperature Class	+20 C to +26 C class of 85052 3.5 mm kits
Storage Temperature Class	minus 40 C to +75 C class of 85052 kits
Error Corrected Temperature Class	plus or minus 1 C of measurement calibration temperature
Related Economy Kit	85052D omits sliding loads and uses the same broadband-load/open/short table

PARAMETER	VALUE
Torque 3p5 Mm	90 N-cm (8 in-lb)

Notes

From Keysight 85052B 3.5 mm Calibration Kit User's and Service Guide Table 2-3. Sliding-load specification assumes proper usage as footnoted in that table. Environment class matches the 85052D Table 2-1 window used for the 3.5 mm 85052 family.

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.