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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent / Keysight 85052D Economy Mechanical Calibration Kit, DC to 26.5 GHz, 3.5 mm

Adapter Return Loss 18 To 26p5 Ghz: greater than or equal to 26 dB (rho less than or equal to 0.05012) Error Corrected Temperature: plus or minus 1 C of measurement calibration temperature Humidity Type Tested: 0 percent to 95 percent at 40 C non-condensing From Keysight 85052D 3.5 mm Economy Calibration Kit User's and Service Guide Table 2-1 environment and Table 2-3 electrical specifications. Error Corrected Temperature: plus or minus 1 C of measurement calibration temperature Humidity Type Tested: 0 percent to 95 percent at 40 C non-condensing From Keysight 85052D 3.5 mm Economy Calibration Kit User's and Service Guide Table 2-1 environment and Table 2-3 electrical specifications.



MODEL

**Agilent / Keysight  
85052D**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**85052D**

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Keysight 85052D Economy Mechanical Calibration Kit has precision calibration standards for network analyzers equipped with 3.5 mm connectors. Operating from DC to 26.5 GHz across 50 Ohm systems, this kit delivers the mechanical standards and accessories required for two-port calibration, systematic error correction, and measurement characterization in RF and microwave applications. Technical Specifications Frequency Range: DC to 26.5 GHz Connector Type: 3.5 mm

(male and female) Impedance: 50 Ohm Torque Specification: 90 N·cm (8 in-lb) Key Features Offset OpensPhase deviation specifications across four frequency bands: DC to 3 GHz:  $\pm 0.65^\circ$  from nominal 3 GHz to 8 GHz:  $\pm 1.20^\circ$  from nominal 8 GHz to 20 GHz:  $\pm 2.00^\circ$  from nominal 20 GHz to 26.5 GHz:  $\pm 2.00^\circ$  from nominal Offset ShortsPhase-stable calibration standards with controlled deviation: DC to 3 GHz:  $\pm 0.50^\circ$  from nominal 3 GHz to 8 GHz:  $\pm 1.00^\circ$  from nominal 8 GHz to 20 GHz:  $\pm 1.75^\circ$  from nominal 20 GHz to 26.5 GHz:  $\pm 1.75^\circ$  from nominal Broadband LoadsMetrology-grade 50 Ohm terminations with return loss performance across the full band: DC to 2 GHz: Return loss  $\geq 46$  dB 2 GHz to 3 GHz: Return loss  $\geq 44$  dB 3 GHz to 8 GHz: Return loss  $\geq 38$  dB 8 GHz to 20 GHz: Return loss  $\geq 36$  dB 20 GHz to 26.5 GHz: Return loss  $\geq 34$  dB AdaptersThree 3.5 mm adapters with return loss specifications: DC to 8 GHz: Return loss  $\geq 30$  dB 8 GHz to 18 GHz: Return loss  $\geq 28$  dB 18 GHz to 26.5 GHz: Return loss  $\geq 26$  dB Offset delay: 94.75 psec Mechanical Tools - 90 N·cm torque wrench (5/16 inch) and 7 mm open-end wrench included. DocumentationUser's and Service Guide plus calibration constant data disks (backup copies recommended). Typical Applications Two-port network analyzer calibration; systematic error characterization; RF/microwave measurement validation; connector interface verification. Compatibility & Integration Designed for Keysight 8720 series, 8510C, and E5063A ENA Series network analyzers.

## 85052D Characteristics / Specifications

| PARAMETER                          | VALUE                                                              |
|------------------------------------|--------------------------------------------------------------------|
| Model                              | 85052D                                                             |
| 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) |
| 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) |
| Adapter Offset Delay               | 94.75 ps                                                           |
| Operating Temperature              | +20 C to +26 C                                                     |
| Storage Temperature                | minus 40 C to +75 C                                                |
| Error Corrected Temperature        | plus or minus 1 C of measurement calibration temperature           |
| Humidity Type Tested               | 0 percent to 95 percent at 40 C non-condensing                     |
| Torque 3p5 Mm                      | 90 N-cm (8 in-lb)                                                  |
| Male Offset Short Part             | 85052-60006                                                        |

| PARAMETER                | VALUE                                                                           |
|--------------------------|---------------------------------------------------------------------------------|
| Female Offset Short Part | 85052-60007                                                                     |
| Humidity                 | Type Tested: 0 percent to 95 percent at 40 C non-condensing                     |
| Return loss              | Dc To 2 Ghz: greater than or equal to 46 dB (rho less than or equal to 0.00501) |

# 85052D Specifications

| PARAMETER                | VALUE                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Applications             | Economy OSL calibration of 3.5 mm devices to 26.5 GHz.                                                                                      |
| Key Features             | 3.5 mm male and female broadband loads, offset opens, and shorts                                                                            |
| Three 3.5 mm adapters    | Specified to 26.5 GHz                                                                                                                       |
| Technical Specifications | Model: 85052D                                                                                                                               |
| Notes                    | From Keysight 85052D 3.5 mm Economy Calibration Kit User's and Service Guide Table 2-1 environment and Table 2-3 electrical specifications. |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature         | minus 40 C to +75 C                                                                                                                                           |
| Operating temperature       | +20 C to +26 C                                                                                                                                                |
| Operating Temperature       | +20 C to +26 C                                                                                                                                                |
| Humidity                    | Type Tested: 0 percent to 95 percent at 40 C non-condensing                                                                                                   |
| Error Corrected Temperature | plus or minus 1 C of measurement calibration temperature                                                                                                      |
| Humidity Type Tested        | 0 percent to 95 percent at 40 C non-condensing                                                                                                                |
| Torque 3p5 Mm               | 90 N-cm (8 in-lb)                                                                                                                                             |
| Male Offset Short Part      | 85052-60006                                                                                                                                                   |
| Female Offset Short Part    | 85052-60007 Notes From Keysight 85052D 3.5 mm Economy Calibration Kit User's and Service Guide Table 2-1 environment and Table 2-3 electrical specifications. |

# 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                              | 85052D                                                             |
| 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) |
| 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) |
| Adapter Offset Delay               | 94.75 ps                                                           |
| Operating Temperature              | +20 C to +26 C                                                     |
| Storage Temperature                | minus 40 C to +75 C                                                |
| Error Corrected Temperature        | plus or minus 1 C of measurement calibration temperature           |
| Humidity Type Tested               | 0 percent to 95 percent at 40 C non-condensing                     |
| Torque 3p5 Mm                      | 90 N-cm (8 in-lb)                                                  |
| Male Offset Short Part             | 85052-60006                                                        |
| Female Offset Short Part           | 85052-60007                                                        |

#### Notes

From Keysight 85052D 3.5 mm Economy Calibration Kit User's and Service Guide Table 2-1 environment and Table 2-3 electrical specifications.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.