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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85058E

Keysight Agilent 85058E Economy 1.85 mm Mechanical Calibration Kit DC to 67 GHz The Keysight 85058E is the economy 1.85 mm data-based mechanical calibration kit specified DC to 67 GHz with six calibration standards. OEM 85058B/E user's guide Table 2-1 shares operating plus 20 C to plus 26 C, storage minus 40 C to plus 75 C, and 90 N-cm torque with precision 85058B. Economy 1.85 mm OSL calibration to 67 GHz when the twelve-standard 85058B precision kit is not required. Six calibration standards versus twelve in 85058B The Keysight 85058E is the economy 1.85 mm data-based mechanical calibration kit specified DC to 67 GHz with six calibration standards. OEM 85058B/E user's guide Table 2-1 shares operating plus 20 C to plus 26 C, storage minus 40 C to plus 75 C, and 90 N-cm torque with precision 85058B. Economy 1.85 mm OSL calibration to 67 GHz when the twelve-standard 85058B precision kit is not required. Six calibration standards versus twelve in 85058B

Instrument Type: Economy 1.85 mm mechanical calibration kit



MODEL

**Agilent / Keysight
85058E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85058E

LISTING

<https://aumictechlabs.com/products/85058e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85058E is an economy mechanical calibration kit for precision calibration of 1.85 mm network analyzers operating DC to 67 GHz. This kit characterizes and compensates systematic errors in RF and microwave test equipment, delivering calibrated measurements across the full

frequency range. Six calibration standards enable 1-port, 2-port, and TRM (thru-reflect-match) calibrations using both data-based and polynomial models.

Technical Specifications

Frequency Range: DC to 67 GHz

Connector Interface: 1.85 mm (compatible with 2.4 mm connectors)

Calibration Standards: Six precision standards (OSL type: open, short, load)

Supported Methods: 1-port, 2-port, and TRM calibration; data-based and polynomial model definitions

Residual System Calibration Error (Economy Kit): 2–10 GHz: 0.021–0.027 dB insertion loss 10–20 GHz: 0.029–0.035 dB insertion loss 20–35 GHz: 0.028–0.035 dB insertion loss 35–60 GHz: 0.052–0.062 dB insertion loss 60–67 GHz: 0.055 dB insertion loss

Operating Temperature: +20 °C to +26 °C (calibration reference)

Temperature Stability: ± 1 °C from measurement calibration point

Storage Temperature: –40 °C to +75 °C

Relative Humidity: 0% to 95% at 40 °C, non-condensing

Key Features

- Mechanical calibration standards with low insertion loss across frequency bands
- Includes gender-change adapters for flexible test port configuration
- Torque wrench provided for correct standard connection
- Standards definitions supplied on disk for direct network analyzer integration
- Commercial calibration certificate included
- Foam-lined storage case for transport protection

Typical Applications RF and microwave measurement campaigns requiring full two-port error correction. Production test environments and field calibration of Keysight network analyzers at 1.85 mm interface points.

Compatibility & Integration Designed for Keysight network analyzers equipped with 1.85 mm connectors. Supports both 85058E Data-Based and 85058EP Polynomial circuit model definitions.

85058E Characteristics / Specifications

PARAMETER	VALUE
Model	85058E
Instrument Type	Economy 1.85 mm mechanical calibration kit
Connector Type	1.85 mm (mates with 2.4 mm)
Frequency Range	DC to 67 GHz
System Impedance	50 ohm
Standard Count	six calibration standards
Related Precision Kit	85058B twelve calibration standards
Related Verification Kit	85058V
Operating Temperature	plus 20 C to plus 26 C
Storage Temperature	minus 40 C to plus 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 Setting	90 N-cm (8 in-lb)
Torque Wrench	5/16 in 90 N-cm 8710-1765
Calibration Style	data-based mechanical
Host Analyzer	Keysight microwave PNA with 1.85 mm test ports
Connector Mating	1.85 mm designed to mate with 2.4 mm
Broadband Termination Optimization	1.85 mm 50 ohm terminations optimized to 67 GHz
Literature	85058B/E user's and service guide 9018-03508
Kit Class	economy
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Humidity	Type Tested: 0 percent to 95 percent at 40 C non-condensing

85058E Specifications

PARAMETER	VALUE
Applications	Economy 1.85 mm OSL calibration to 67 GHz when the twelve-standard 85058B precision kit is not required.
Key Features	Six calibration standards versus twelve in 85058B
Same environmental window as 85058B	Works with 85058V verification kit
Technical Specifications	Model: 85058E

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 75 C
Operating temperature	plus 20 C to plus 26 C
Operating Temperature	plus 20 C to plus 26 C
Humidity	Type Tested: 0 percent to 95 percent at 40 C non-condensing
Model	85058E
Instrument Type	Economy 1.85 mm mechanical calibration kit
Connector Type	1.85 mm (mates with 2.4 mm)
Frequency Range	DC to 67 GHz
System Impedance	50 ohm
Standard Count	six calibration standards
Related Precision Kit	85058B twelve calibration standards
Related Verification Kit	85058V
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 Setting	90 N-cm (8 in-lb)
Torque Wrench	5/16 in 90 N-cm 8710-1765
Calibration Style	data-based mechanical
Host Analyzer	Keysight microwave PNA with 1.85 mm test ports
Connector Mating	1.85 mm designed to mate with 2.4 mm
Broadband Termination Optimization	1.85 mm 50 ohm terminations optimized to 67 GHz
Literature	85058B/E user's and service guide 9018-03508
Kit Class	economy
Manufacturer	HP Agilent Keysight

PARAMETER	VALUE
Brand Lineage	Hewlett Packard Agilent Keysight Notes From Keysight 85058B/E 1.85 mm Calibration Kits User's and Service Guide Table 2-1 and the 85058V literature comparison of six versus twelve standards. Individual standard S-parameter files ship with the 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.

environmental window as 85058B

Works with 85058V verification kit

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	85058E
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Notes

From Keysight 85058B/E 1.85 mm Calibration Kits User's and Service Guide Table 2-1 and the 85058V literature comparison of six versus twelve standards. Individual standard S-parameter files ship with the 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.