

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85058B

Broadband Termination Optimization: 1.85 mm 50 ohm terminations optimized to 67 GHz Host Analyzer: Keysight microwave PNA with 1.85 mm test ports Connector Mating: 1.85 mm designed to mate with 2.4 mm Literature: 85058B/E user's and service guide 9018-03508 Host Analyzer: Keysight microwave PNA with 1.85 mm test ports Connector Mating: 1.85 mm designed to mate with 2.4 mm Literature: 85058B/E user's and service guide 9018-03508 Kit Class: precision versus economy 85058E



MODEL

**Agilent / Keysight
85058B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85058B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85058B is a standard mechanical calibration kit engineered for precision network analyzer calibration up to 67 GHz. It delivers characterized calibration standards with data-based modeling for superior accuracy, supporting full two-port SOLT and TRM calibration methods. The kit includes twelve standards (Opens, Shorts, and Broadband loads in male and female configurations), torque wrenches, connector gauges, and adapters for gender conversion - everything required for traceable RF measurements at 1.85 mm connectors. Technical Specifications Frequency Range: DC to 67 GHz Connector Type: 1.85 mm (male and female); compatible with 2.4 mm connectors Impedance: 50 ohms Calibration Standards: Twelve characterized standards for full two-port calibration Return Loss: Greater than 30 dB up to 67 GHz

(typical) Phase Accuracy: ± 2 degrees typical at 67 GHz Power Rating: Up to 1 watt average; 5 watts peak Operating Temperature: 0°C to +55°C Storage Temperature: -40°C to +75°C Connector Durability: Over 500 connections Weight: Approximately 0.5 kg Case Dimensions: Approximately 200 mm (W) $\times$ 150 mm (D) $\times$ 50 mm (H) Key Features Data-based calibration standard model for higher accuracy than polynomial descriptions Compatible with SmartCal (Guided) Calibration methodology Supports both SOLT and TRM calibration methods Minimal insertion loss suitable for precision broadband calibration Included torque wrenches ensure proper connector interface maintenance Connector gauges verify and sustain 1.85 mm interface integrity Portable storage case with integrated accessories Typical Applications Network analyzer calibration to 67 GHz S-parameter measurements on high-frequency components Two-port RF calibration workflows Components utilizing 1.85 mm connector interfaces Compatibility & Integration Designed for Keysight network analyzers and compatible RF test instruments operating to 67 GHz. The 1.85 mm connector standard mates with 2.4 mm connectors, extending integration flexibility. Standards definitions are supplied on disk with comprehensive User's and Service Guide documentation.

85058B Characteristics / Specifications

PARAMETER	VALUE
Model	85058B
Instrument Type	Precision 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	twelve calibration standards
Related Economy Kit	85058E six calibration standards
Related Verification Kit	85058V 10 MHz to 67 GHz
Operating Temperature	plus 20 C to plus 26 C (Table 2-1)
Storage Temperature	minus 40 C to plus 75 C (Table 2-1)
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) for 1.85 mm
Torque Wrench	5/16 in 90 N-cm 8710-1765
Broadband Termination Optimization	1.85 mm 50 ohm terminations optimized to 67 GHz
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
Literature	85058B/E user's and service guide 9018-03508
Kit Class	precision versus economy 85058E
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Humidity	Type Tested: 0 percent to 95 percent at 40 C non-condensing

85058B Specifications

PARAMETER	VALUE
Applications	Precision 1.85 mm OSL calibration of 67 GHz PNA systems, including devices that mate 1.85 mm to 2.4 mm.
Key Features	Data-based 1.85 mm standards to 67 GHz
Twelve calibration standards in 85058B	1.85 mm mates with 2.4 mm
Technical Specifications	Model: 85058B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 75 C (Table 2-1)
Operating temperature	plus 20 C to plus 26 C (Table 2-1)
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Literature	85058B/E user's and service guide 9018-03508
Kit Class	precision versus economy 85058E
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight Notes Frequency, connector, standard count, environment, and torque from Keysight 85058B/E 1.85 mm Calibration Kits User's and Service Guide Table 2-1 and 85058V family literature that cites 85058B twelve-standard precision kit. Device-by-device return-loss tables are on the 85058B data disk / certificate.

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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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>

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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.