

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85519A 4-in-1 OSLT Calibration Kit, DC to 18 GHz, Type-N (f) 50 ohm

Keysight Agilent 85519A 4-in-1 OSLT Mechanical Calibration Kit TypeNFemale DC to 18 GHz

The Keysight 85519A is a compact 4-in-1 OSLT mechanical calibration kit with Type-N female 50 ohm connectors specified DC to 18 GHz. OEM data sheet 85519-90001 lists female load return loss, open/short phase deviation, through delay 244.949 ps, load DC resistance 50 ohm plus or minus 0.5 ohm, and 0.5 W load power. One-port and two-port OSLT calibration of Type-N female 50 ohm devices to 18 GHz on PNA, ENA, and FieldFox class network analyzers.

The Keysight 85519A is a compact 4-in-1 OSLT mechanical calibration kit with Type-N female 50 ohm connectors specified DC to 18 GHz. OEM data sheet 85519-90001 lists female load return loss, open/short phase deviation, through delay 244.949 ps, load DC resistance 50 ohm plus or minus 0.5 ohm, and 0.5 W load power. One-port and two-port OSLT calibration of Type-N female 50 ohm devices to 18 GHz on PNA, ENA, and FieldFox class network analyzers.

Single-body open short load through combination Protective connector caps and shock-resistant storage



MODEL

**Agilent / Keysight
85519A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85519A

LISTING

<https://aumictechlabs.com/products/85519a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85519A is a 4-in-1 OSLT mechanical calibration kit that delivers open, short, load, and through standards for accurate VNA calibration across DC to 18 GHz. Built with Type-N female connectors and 50-ohm impedance, this kit enables precise compensation of systematic errors in RF and microwave test systems. Its compact form factor and lightweight design support field and laboratory deployment. The integrated through standard uniquely facilitates calibration of non-insertable devices - such as female-female connectors on cables and filters - without requiring adapter configurations.

Technical Specifications

Frequency Range: DC to 18 GHz
Impedance: 50 ohm
Connector Interface: Type-N female
Open Phase Error: 0 to 6 GHz: $\leq 2.0^\circ$ 6 to 9 GHz: $\leq 3.0^\circ$ 9 to 18 GHz: $\leq 4.0^\circ$
Short Phase Error: 0 to 6 GHz: $\leq 1.5^\circ$ 6 to 9 GHz: $\leq 2.5^\circ$ 9 to 18 GHz: $\leq 3.0^\circ$
Load Return Loss: 0 to 6 GHz: ≥ 42 dB 6 to 9 GHz: ≥ 35 dB 9 to 18 GHz: ≥ 32 dB
Physical Dimensions: 121 mm (H) $\times$ 89 mm (W) $\times$ 22 mm (D)

Key Features

- Four-standard OSLT architecture for single-port and two-port calibration methodologies
- Mechanical construction ensures repeatability and minimal drift over extended use cycles
- Female-to-female connector design eliminates need for external adapters in common test configurations
- Frequency coverage from DC through 18 GHz with controlled phase and return loss performance

Typical Applications

- Vector network analyzer calibration and verification
- RF and microwave measurement system error correction
- S-parameter characterization of passive components
- Cable and filter assembly validation

Compatibility & Integration

Designed for integration with Keysight network analyzers and compatible third-party RF instrumentation supporting Type-N female connectors and 50-ohm measurement environments.

85519A Characteristics / Specifications

PARAMETER	VALUE
Model	85519A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	TypeNfemale 50 ohm
Frequency Range	DC to 18 GHz
System Impedance	50 ohm
Through Electrical Delay	244.949 ps female-female
Through Return Loss Dc To 4 Ghz Typical	greater than or equal to 38 dB
Through Return Loss 4 To 8 Ghz Typical	greater than or equal to 34 dB
Through Return Loss 8 To 18 Ghz Typical	greater than or equal to 28 dB
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 18 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
Load Return Loss Dc To 6 Ghz	greater than or equal to 42 dB
Load Return Loss 6 To 9 Ghz	greater than or equal to 35 dB
Load Return Loss 9 To 18 Ghz	greater than or equal to 32 dB
Load Maximum Power	0.5 W
Open Offset Delay	85.954 ps
Short Offset Delay	85.954 ps
Short Phase Dc To 6 Ghz	less than or equal to 1.5 deg from nominal
Short Phase 6 To 9 Ghz	less than or equal to 2.5 deg from nominal
Short Phase 9 To 18 Ghz	less than or equal to 3.0 deg from nominal
Open Phase Dc To 6 Ghz	less than or equal to 2.0 deg from nominal
Open Phase 6 To 9 Ghz	less than or equal to 3.0 deg from nominal
Open Phase 9 To 18 Ghz	less than or equal to 4.0 deg from nominal
Operating Temperature	plus 18 C to plus 28 C
Storage Temperature	minus 40 C to plus 70 C per EN 60068-2-1 and EN 60068-2-2

PARAMETER	VALUE
Inspection Interval	1 year recommended
Torque TypeNRecommended	12 lb-inch (136 N-cm)
Return loss	Dc To 4 Ghz Typical: greater than or equal to 38 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 70 C per EN 60068-2-1 and EN 60068-2-2
Operating temperature	plus 18 C to plus 28 C
Operating Temperature	plus 18 C to plus 28 C
Inspection Interval	1 year recommended
Torque TypeNRecommended	12 lb-inch (136 N-cm) Notes Numeric rows from Keysight 85519A Cal Kit data sheet 85519-90001. Type-N connectors may be connected finger tight; the 12 lb-inch figure is the OEM recommended torque whenawrench is used.

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	85519A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	TypeNfemale 50 ohm
Frequency Range	DC to 18 GHz
System Impedance	50 ohm
Through Electrical Delay	244.949 ps female-female
Through Return Loss Dc To 4 Ghz Typical: greater than or equal to 38 dB Through Return Loss 4 To 8 Ghz Typical: greater than or equal to 34 dB Through Return Loss 8 To 18 Ghz Typical: greater than or equal to 28 dB	
Specifications	
PARAMETER	VALUE
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 18 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
Load Return Loss Dc To 6 Ghz	greater than or equal to 42 dB
Load Return Loss 6 To 9 Ghz	greater than or equal to 35 dB
Load Return Loss 9 To 18 Ghz	greater than or equal to 32 dB
Load Maximum Power	0.5 W
Open Offset Delay	85.954 ps
Short Offset Delay	85.954 ps
Short Phase Dc To 6 Ghz	less than or equal to 1.5 deg from nominal
Short Phase 6 To 9 Ghz	less than or equal to 2.5 deg from nominal
Short Phase 9 To 18 Ghz	less than or equal to 3.0 deg from nominal
Open Phase Dc To 6 Ghz	less than or equal to 2.0 deg from nominal
Open Phase 6 To 9 Ghz	less than or equal to 3.0 deg from nominal
Open Phase 9 To 18 Ghz	less than or equal to 4.0 deg from nominal
Operating Temperature	plus 18 C to plus 28 C

PARAMETER	VALUE
Storage Temperature	minus 40 C to plus 70 C per EN 60068-2-1 and EN 60068-2-2
Inspection Interval	1 year recommended
Torque TypeNRecommended	12 lb-inch (136 N-cm)

Notes

Numeric rows from Keysight 85519A Cal Kit data sheet 85519-90001. Type-N connectors may be connected finger tight; the 12 lb-inch figure is the OEM recommended torque whenawrench is used.

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 ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.