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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85518A 4-in-1 OSLT Mechanical Calibration Kit, DC to 18 GHz, Type-N (m) 50 ohm

Keysight Agilent 85518A 4-in-1 OSLT Mechanical Calibration Kit TypeNMale DC to 18 GHz The Keysight 85518A is the Type-N male 50 ohm counterpart to 85519A, a compact 4-in-1 OSLT mechanical calibration kit specified DC to 18 GHz. OEM 85518A/85519A 4-in-1 Type-N family data sheets share the same load return-loss, open/short phase, 50 ohm plus or minus 0.5 ohm DC resistance, 0.5 W load, plus 18 to plus 28 C operating, and 12 lb-inch Type-N torque rows; 85518A provides the male-male through. OSLT calibration of Type-N male 50 ohm devices and cables to 18 GHz. The Keysight 85518A is the Type-N male 50 ohm counterpart to 85519A, a compact 4-in-1 OSLT mechanical calibration kit specified DC to 18 GHz. OEM 85518A/85519A 4-in-1 Type-N family data sheets share the same load return-loss, open/short phase, 50 ohm plus or minus 0.5 ohm DC resistance, 0.5 W load, plus 18 to plus 28 C operating, and 12 lb-inch Type-N torque rows; 85518A provides the male-male through. OSLT calibration of Type-N male 50 ohm devices and cables to 18 GHz. Single-body male open short load through combination



MODEL

**Agilent / Keysight
85518A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85518A

LISTING

<https://aumictechlabs.com/products/85518a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85518A is a 4-in-1 OSLT mechanical calibration kit designed for precision network analyzer calibration across DC to 18 GHz. It has open, short, load, and thru standards with Type-N male connectors and 50 ohm impedance, enabling accurate error correction and characterized measurements in RF and microwave test environments.

Technical Specifications

Frequency Range: DC to 18 GHz Connector Type: Type-N male, 50 ohm Calibration Standards: Open, Short, Load, Thru (4-in-1) Physical Dimensions: 106 × 72 × 22 mm (H × W × D) Weight: Approximately 2 lbs Operating Temperature: +18 °C to +28 °C Storage Temperature: -40 °C to +70 °C Open Phase Error: 0-6 GHz: ≤ 2.0° 6-9 GHz: ≤ 3.0° 9-18 GHz: ≤ 4.0° Short Phase Error: 0-6 GHz: ≤ 1.5° 6-9 GHz: ≤ 2.5° 9-18 GHz: ≤ 3.0° Load Return Loss: 0-6 GHz: ≥ 42 dB 6-9 GHz: ≥ 35 dB 9-18 GHz: ≥ 32 dB Through Return Loss (typical): DC-4 GHz: ≥ 38 dB 4-8 GHz: ≥ 34 dB 8-18 GHz: ≥ 28 dB Through Electrical Delay: 245.383 ps (male-male) Through Insertion Loss (typical): ≤ 0.035 dB × √(f/GHz) (DC to 18 GHz, male-male) Offset Delay (Open, male): 85.954 ps

Key Features Compact, lightweight design for laboratory and field deployment Integrated thru standard enables calibration of non-insertable devices such as cables and filters with male-male connectors All four OSLT standards included for complete error correction Type-N male connectors ensure compatibility with standard RF and microwave equipment Protective storage recommended to maintain precision performance and connector integrity

Typical Applications Network analyzer calibration and error correction RF and microwave measurement verification Cable and filter device characterization Precision test system validation across DC to 18 GHz

Compatibility & Integration The 85518A interfaces with Agilent/Keysight network analyzers and compatible third-party RF instrumentation equipped with Type-N male connectors. The male-male thru configuration supports direct connection to test ports and external devices without adapter requirements.

85518A Characteristics / Specifications

PARAMETER	VALUE
Model	85518A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	TypeNmale 50 ohm
Frequency Range	DC to 18 GHz
System Impedance	50 ohm
Related Female Kit	85519A TypeNfemale
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
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
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 18 GHz
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
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
Inspection Interval	1 year recommended
Torque TypeNRecommended	12 lb-inch (136 N-cm)

PARAMETER	VALUE
Through Sex	male-male
Open Short Sex	male
Return loss	Dc To 6 Ghz: greater than or equal to 42 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)
Through Sex	male-male
Open Short Sex	male Notes Load, open/short phase, through return-loss/insertion-loss, temperature, inspection, and torque rows from the Keysight 85518A/85519A Type-N 4-in-1 data-sheet family (85519-90001 table). Male-male through electrical delay is on the 85518-90001 certificate shipped 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.

Specifications	
Specifications	
PARAMETER	VALUE
Model	85518A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	TypeNmale 50 ohm
Frequency Range	DC to 18 GHz
System Impedance	50 ohm
Related Female Kit	85519A TypeNfemale
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
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
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 18 GHz
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
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
Inspection Interval	1 year recommended

PARAMETER	VALUE
Torque TypeNRecommended	12 lb-inch (136 N-cm)
Through Sex	male-male
Open Short Sex	male

Notes

Load, open/short phase, through return-loss/insertion-loss, temperature, inspection, and torque rows from the Keysight 85518A/85519A Type-N 4-in-1 data-sheet family (85519-90001 table). Male-male through electrical delay is on the 85518-90001 certificate shipped 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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<https://aumictechlabs.com>

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.