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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85520A 4-in-1 OSLT Mechanical Calibration Kit, DC to 26.5 GHz, Type-3.5 mm (m) 50 ohm

Keysight Agilent 85520A 4-in-1 OSLT Mechanical Calibration Kit 3.5 mm Male DC to 26.5 GHz

The Keysight 85520A is the 3.5 mm male 50 ohm counterpart to 85521A, specified DC to 26.5 GHz. OEM data sheet 85520-90001 lists male-male through delay 115.888 ps, the same load return-loss bands as 85521A, 0.25 W load power, and 8 lb-inch (90 N-cm) torque. OSLT calibration of 3.5 mm male devices to 26.5 GHz. Instrument Type: 4-in-1 OSLT mechanical calibration kit

The Keysight 85520A is the 3.5 mm male 50 ohm counterpart to 85521A, specified DC to 26.5 GHz. OEM data sheet 85520-90001 lists male-male through delay 115.888 ps, the same load return-loss bands as 85521A, 0.25 W load power, and 8 lb-inch (90 N-cm) torque. OSLT calibration of 3.5 mm male devices to 26.5 GHz. Instrument Type: 4-in-1 OSLT mechanical calibration kit

Through Electrical Delay: 115.888 ps male-male



MODEL

**Agilent / Keysight
85520A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85520A

LISTING

<https://aumictechlabs.com/products/85520a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85520A is a 4-in-1 OSLT mechanical calibration kit engineered for precise network analyzer calibration across DC to 26.5 GHz. Equipped with Open, Short, Load, and Through

standards, this kit corrects systematic measurement errors in RF and microwave characterization. The Type-3.5 mm male connector with 50-ohm impedance enables calibration of non-insertable devices such as cables and filters with male-to-male connectors.

Technical Specifications

Frequency Range: DC to 26.5 GHz Impedance: 50 ohm Connector: Type-3.5 mm (male)

Calibration Standards: Open, Short, Load, Through Physical: Approximately 70 × 39 × 14 mm; lightweight design

Key Features

Open Phase Error: $\leq 1.5^\circ$ (0–5 GHz), $\leq 3.0^\circ$ (5–15 GHz), $\leq 4.5^\circ$ (15–26.5 GHz) Short Phase Error: $\leq 1.0^\circ$ (0–5 GHz), $\leq 2.5^\circ$ (5–15 GHz), $\leq 4.0^\circ$ (15–26.5 GHz) Load Return Loss: ≥ 42 dB (0–5 GHz), ≥ 36 dB (5–15 GHz), ≥ 32 dB (15–26.5 GHz) Integrated through standard for non-insertable device measurement Compact, portable form factor optimized for bench and field use

Typical Applications

Network analyzer calibration and error correction Systematic error characterization in RF/microwave measurements Calibration of cables, filters, and coaxial assemblies with male connectors

Compatibility & Integration

Designed for Keysight and Agilent network analyzers. Calibration kit definition files (.xkt format) are available as downloadable archives. Associated application notes covering calibration standard definitions and kit structures are provided.

85520A Characteristics / Specifications

PARAMETER	VALUE
Model	85520A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	3.5 mm male 50 ohm
Frequency Range	DC to 26.5 GHz
System Impedance	50 ohm
Through Electrical Delay	115.888 ps male-male
Through Return Loss Dc To 5 Ghz Typical	greater than or equal to 34 dB
Through Return Loss 5 To 26p5 Ghz Typical	greater than or equal to 30 dB
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 26.5 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
Load Return Loss Dc To 5 Ghz	greater than or equal to 42 dB
Load Return Loss 5 To 15 Ghz	greater than or equal to 36 dB
Load Return Loss 15 To 26p5 Ghz	greater than or equal to 32 dB
Load Maximum Power	0.25 W
Open Offset Delay	30.765 ps class from 85520-90001 open table
Short Offset Delay	30.508 ps
Short Phase Dc To 5 Ghz	less than or equal to 1.0 deg from nominal
Short Phase 5 To 15 Ghz	less than or equal to 2.5 deg from nominal
Short Phase 15 To 26p5 Ghz	less than or equal to 4.0 deg from nominal
Open Phase Dc To 5 Ghz	less than or equal to 1.5 deg from nominal
Open Phase 5 To 15 Ghz	less than or equal to 3.0 deg from nominal
Open Phase 15 To 26p5 Ghz	less than or equal to 4.5 deg from nominal
Operating Temperature	plus 18 C to plus 28 C
Storage Temperature	minus 40 C to plus 70 C
Inspection Interval	1 year recommended

PARAMETER	VALUE
Torque 3p5 Mm	8 lb-inch (90 N-cm)
Related Female Kit	85521A
Return loss	Dc To 5 Ghz Typical: greater than or equal to 34 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 70 C
Operating temperature	plus 18 C to plus 28 C
Operating Temperature	plus 18 C to plus 28 C
Inspection Interval	1 year recommended
Torque 3p5 Mm	8 lb-inch (90 N-cm)
Related Female Kit	85521A Notes Numeric rows from Keysight 85520A Cal Kit data sheet 85520-90001.

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	85520A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	3.5 mm male 50 ohm
Frequency Range	DC to 26.5 GHz
System Impedance	50 ohm
Through Electrical Delay	115.888 ps male-male
Through Return Loss Dc To 5 Ghz Typical: greater than or equal to 34 dB	
Through Return Loss 5 To 26p5 Ghz Typical: greater than or equal to 30 dB	
Specifications	
PARAMETER	VALUE
Through Insertion Loss Typical	less than or equal to 0.035 dB times sqrt(f/GHz) from 0 to 26.5 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
Load Return Loss Dc To 5 Ghz	greater than or equal to 42 dB
Load Return Loss 5 To 15 Ghz	greater than or equal to 36 dB
Load Return Loss 15 To 26p5 Ghz	greater than or equal to 32 dB
Load Maximum Power	0.25 W
Open Offset Delay	30.765 ps class from 85520-90001 open table
Short Offset Delay	30.508 ps
Short Phase Dc To 5 Ghz	less than or equal to 1.0 deg from nominal
Short Phase 5 To 15 Ghz	less than or equal to 2.5 deg from nominal
Short Phase 15 To 26p5 Ghz	less than or equal to 4.0 deg from nominal
Open Phase Dc To 5 Ghz	less than or equal to 1.5 deg from nominal
Open Phase 5 To 15 Ghz	less than or equal to 3.0 deg from nominal
Open Phase 15 To 26p5 Ghz	less than or equal to 4.5 deg from nominal
Operating Temperature	plus 18 C to plus 28 C
Storage Temperature	minus 40 C to plus 70 C

PARAMETER	VALUE
Inspection Interval	1 year recommended
Torque 3p5 Mm	8 lb-inch (90 N-cm)
Related Female Kit	85521A

Notes
Numeric rows from Keysight 85520A Cal Kit data sheet 85520-90001.

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.