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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 85562A 4-in-1 OSLT Mechanical Calibration Kit, DC to 40 GHz, 2.92 mm (m)

Keysight Agilent 85562A 4-in-1 OSLT Mechanical Calibration Kit 2.92 mm Male DC to 40 GHz

The Keysight 85562A is the 2.92 mm male 50 ohm counterpart to 85561A, specified DC to 40 GHz. OEM data sheet 85562-90001 lists male-male through delay 116.18 ps and the same load return-loss bands, 0.25 W load, and 8 lb-inch torque as 85561A. OSLT calibration of 2.92 mm male devices to 40 GHz. Instrument Type: 4-in-1 OSLT mechanical calibration kit

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Through Electrical Delay: 116.18 ps male-male



MODEL

**Agilent / Keysight
85562A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85562A

LISTING

<https://aumictechlabs.com/products/85562a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85562A is a 4-in-1 OSLT mechanical calibration kit engineered for precise characterization of network analyzers and high-frequency RF instruments. Operating from DC to

40 GHz with 2.92 mm male connectors and 50 Ohm impedance, this kit integrates Open, Short, Load, and Thru standards into a single compact unit designed for laboratory and field deployment.

Technical Specifications

- Frequency Range: DC to 40 GHz
- Connector Type: 2.92 mm (male)
- Impedance: 50 Ohms
- Load Return Loss: 24 to 39 dB (frequency-dependent)
- Connector Torque: 8 lb-inch (90 N-cm) using torque wrench
- Operating Temperature: +18 °C to +28 °C (non-condensing)
- Storage Temperature: -40 °C to +70 °C
- Recommended Inspection Interval: 1 year

Key Features

- Four integrated calibration standards minimize setup time and connector wear
- Compact, lightweight design optimized for portability
- Load return loss specification of 24 to 39 dB across frequency range ensures accurate system characterization
- Mechanical construction rated for 8 lb-inch connector torque
- Designed for controlled laboratory environments with operating range of +18 °C to +28 °C

Typical Applications

- Network analyzer calibration and verification
- Vector measurement system characterization
- High-frequency device and component testing up to 40 GHz
- Field and laboratory RF measurements requiring OSLT standards

Compatibility & Integration

This calibration kit is structured for Keysight vector network analyzers and instruments equipped with 2.92 mm connectors. For optimal performance, protective caps should be mounted on connectors when not in use, and the kit should be stored in a shock-resistant environment to maintain calibration integrity.

85562A Characteristics / Specifications

PARAMETER	VALUE
Model	85562A
Instrument Type	4-in-1 OSLT mechanical calibration kit
Connector Type	2.92 mm male 50 ohm
Frequency Range	DC to 40 GHz
System Impedance	50 ohm
Through Electrical Delay	116.18 ps male-male
Through Offset Loss	2.5 Gohm/s
Through Return Loss Dc To 4 Ghz Typical	greater than or equal to 30 dB
Through Return Loss 4 To 26p5 Ghz Typical	greater than or equal to 26 dB
Through Return Loss 26p5 To 40 Ghz Typical	greater than or equal to 21 dB
Through Insertion Loss Typical	less than or equal to 0.04 dB times sqrt(f/GHz) from DC to 40 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
Load Return Loss Dc To 4 Ghz	greater than or equal to 39 dB
Load Return Loss 4 To 10 Ghz	greater than or equal to 33 dB
Load Return Loss 10 To 26p5 Ghz	greater than or equal to 28 dB
Load Return Loss 26p5 To 40 Ghz	greater than or equal to 24 dB
Load Maximum Power	0.25 W
Related Female Kit	85561A
Operating Temperature	plus 18 C to plus 28 C non-condensing
Storage Temperature	minus 40 C to plus 70 C
Inspection Interval	1 year recommended
Torque 2p92 Mm	8 lb-inch (90 N-cm)
Open Short Sex	male
Through Sex	male-male

PARAMETER	VALUE
Load Sex	male
Family Literature	85562-90001
Return loss	Dc To 4 Ghz Typical: greater than or equal to 30 dB

85562A Specifications

PARAMETER	VALUE
Applications	OSLT calibration of 2.92 mm male devices to 40 GHz.
Key Features	Single-body 2.92 mm male OSLT
Specified DC to 40 GHz	Pairs with 85561A female kit
Technical Specifications	Model: 85562A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 70 C
Operating temperature	plus 18 C to plus 28 C non-condensing
Operating Temperature	plus 18 C to plus 28 C non-condensing
Inspection Interval	1 year recommended
Torque 2p92 Mm	8 lb-inch (90 N-cm)
Open Short Sex	male
Through Sex	male-male
Load Sex	male
Family Literature	85562-90001 Notes Numeric rows from Keysight 85562A Cal Kit data sheet 85562-90001. Open/short polynomial coefficients are on the certificate shipped with the male 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	
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Through Insertion Loss Typical	less than or equal to 0.04 dB times sqrt(f/GHz) from DC to 40 GHz
Load Dc Resistance	50 ohm plus or minus 0.5 ohm
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Load Maximum Power	0.25 W
Related Female Kit	85561A
Operating Temperature	plus 18 C to plus 28 C non-condensing
Storage Temperature	minus 40 C to plus 70 C
Inspection Interval	1 year recommended
Torque 2p92 Mm	8 lb-inch (90 N-cm)
Open Short Sex	male
Through Sex	male-male

PARAMETER	VALUE
Load Sex	male
Family Literature	85562-90001

Notes

Numeric rows from Keysight 85562A Cal Kit data sheet 85562-90001. Open/short polynomial coefficients are on the certificate shipped with the male 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

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
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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.