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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85059V

Keysight Agilent 85059V 1.0 mm Verification Kit DC to 120 GHz The Keysight 85059V is the 1.0 mm verification kit used with 85059B to confirm 1.0 mm PNA calibrations to 120 GHz. OEM 85059B data sheet 5992-2443EN and analyzer-accessory tables place 85059V as the 1.00 mm verification kit DC to 120 GHz alongside the 85059B calibration devices. Verifying 1.0 mm calibrations on 110/120 GHz network analyzers against factory-measured standards. NIST-traceable verification data class of Keysight mm-wave verification kits The Keysight 85059V is the 1.0 mm verification kit used with 85059B to confirm 1.0 mm PNA calibrations to 120 GHz. OEM 85059B data sheet 5992-2443EN and analyzer-accessory tables place 85059V as the 1.00 mm verification kit DC to 120 GHz alongside the 85059B calibration devices. Verifying 1.0 mm calibrations on 110/120 GHz network analyzers against factory-measured standards. NIST-traceable verification data class of Keysight mm-wave verification kits Host Analyzer: Keysight PNA with 1.0 mm test ports



MODEL

**Agilent / Keysight
85059V**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85059V

LISTING

<https://aumictechlabs.com/products/85059v-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85059V is a precision 1.0 mm verification kit designed to validate VNA measurement calibrations and confirm that PNA and PNA-X millimeter-wave systems operate within specification. It has metrological traceability to Keysight Technologies primary standards across a

broad frequency span, ensuring measurement confidence in demanding high-frequency environments.

Technical Specifications

Operating Range and Impedance Frequency range: 10 MHz to 120 GHz Connector type: 1.0 mm System impedance: 50 ohm

Verification Standards

Match Adapter Return loss: 14 dB (typical, 0–120 GHz) Insertion loss: < 0.70 dB (typical, 0–120 GHz) Connector repeatability: –35 dB (typical, 0–120 GHz)

Verification Standards

Mismatch Adapter Return loss: 5 dB (typical, 0–120 GHz) Insertion loss: < 3.0 dB (typical, 0–120 GHz) Connector repeatability: –35 dB (typical, 0–120 GHz)

Key Features

Traceable standards referenced to Keysight primary calibration laboratory Two verification adapters (match and mismatch) covering 10 MHz–120 GHz Dedicated storage box with customized foam inserts for safe transport and storage Designed as successor to the 85059A kit; 85059B remains an alternative calibration option

Typical Applications

Calibration verification on PNA and PNA-X millimeter-wave analyzers Post-measurement uncertainty assessment in RF/microwave laboratories Performance validation for systems operating from near-DC to 120 GHz Quality assurance in production and service environments requiring high metrological confidence

Compatibility & Integration

Keysight PNA series network analyzers Keysight PNA-X series network analyzers All 50 ohm, 1.0 mm connector-equipped test systems

85059V Characteristics / Specifications

PARAMETER	VALUE
Model	85059V
Instrument Type	1.0 mm verification kit
Connector Type	1.0 mm
Frequency Range	DC to 120 GHz
System Impedance	50 ohm
Related Cal Kit	85059B precision 1.0 mm
Related Prior Kit	85059A DC to 110 GHz
Host Analyzer	Keysight PNA with 1.0 mm test ports
Torque 1p0 Mm	45 N-cm (4 in-lb) 6 mm wrench class of 85059 family
Adapter Return Loss Class	14 dB DC to 120 GHz on 85059B adapter table
Load Return Loss Class Dc To 18 Ghz	30 dB on 85059B load table
Load Return Loss Class 18 To 40 Ghz	26 dB
Load Return Loss Class 40 To 50 Ghz	24 dB
Offset Short Count On Cal Kit	four lengths per sex on 85059B
Operating Temperature Class	laboratory 1.0 mm precision window
Storage Temperature Class	minus 40 C to plus 75 C class of precision coaxial kits
Error Corrected Temperature Class	plus or minus 1 C of calibration temperature
Literature	5992-2443EN 85059B family and analyzer accessory table 85059V
Verification Style	factory-measured gold standards with uncertainties
Connector Family	1.0 mm coaxial
Use Case	confirm 85059B calibration residual errors
Manufacturer	HP Agilent Keysight
Storage temperature	Class: minus 40 C to plus 75 C class of precision coaxial kits
Operating temperature	Class: laboratory 1.0 mm precision window
Return loss	Class: 14 dB DC to 120 GHz on 85059B adapter table

85059V Specifications

PARAMETER	VALUE
Applications	Verifying 1.0 mm calibrations on 110/120 GHz network analyzers against factory-measured standards.
Key Features	1.0 mm verification devices to 120 GHz
Used with 85059B precision cal kit	Data-based 1.0 mm family
Technical Specifications	Model: 85059V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to plus 75 C class of precision coaxial kits
Operating temperature	Class: laboratory 1.0 mm precision window
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Operating Temperature Class	laboratory 1.0 mm precision window
Storage Temperature Class	minus 40 C to plus 75 C class of precision coaxial kits
Error Corrected Temperature Class	plus or minus 1 C of calibration temperature
Literature	5992-2443EN 85059B family and analyzer accessory table 85059V
Verification Style	factory-measured gold standards with uncertainties
Connector Family	1.0 mm coaxial
Use Case	confirm 85059B calibration residual errors
Manufacturer	HP Agilent Keysight Notes Identity and 120 GHz coverage from Keysight analyzer-accessory tables listing 85059V 1.00 mm DC to 120 GHz. Electrical class rows cite the published 85059B 5992-2443EN adapter/load table used with this verification kit. Device-by-device verification data is on the 85059V 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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Model	85059V
Instrument Type	1.0 mm verification kit
Connector Type	1.0 mm
Frequency Range	DC to 120 GHz
System Impedance	50 ohm
Related Cal Kit	85059B precision 1.0 mm
Related Prior Kit	85059A DC to 110 GHz
Host Analyzer	Keysight PNA with 1.0 mm test ports
Torque 1p0 Mm	45 N-cm (4 in-lb) 6 mm wrench class of 85059 family
Adapter Return Loss Class	14 dB DC to 120 GHz on 85059B adapter table
Load Return Loss Class Dc To 18 Ghz: 30 dB on 85059B load table	
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Specifications	
PARAMETER	VALUE
Offset Short Count On Cal Kit	four lengths per sex on 85059B
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Verification Style	factory-measured gold standards with uncertainties
Connector Family	1.0 mm coaxial
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Manufacturer	HP Agilent Keysight
Notes	
Identity and 120 GHz coverage from Keysight analyzer-accessory tables listing 85059V 1.00 mm DC to 120 GHz.	

Electrical class rows cite the published 85059B 5992-2443EN adapter/load table used with this verification kit. Device-by-device verification data is on the 85059V disk/certificate.

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.