

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85541B

Agilent/Keysight 85541B Overview This listing is a catalog accessory or spare in the Agilent / Keysight catalog. Public OEM literature for this exact SKU does not publish a dense numeric performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate. Applications Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.



MODEL

**Agilent / Keysight
85541B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85541B

LISTING

<https://aumictechlabs.com/products/85541b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85541B is a temperature-characterized Electronic Calibration (ECal) module for Keysight PNA family network analyzers. It delivers rapid calibration refresh capability across extended temperature ranges without removing the device under test or reconnecting standards, making it ideal for thermal chamber testing and multi-port measurement scenarios. Technical Specifications Frequency Range: 500 MHz to 40 GHz Temperature Compensation Range: -30 °C to +80 °C Typical Amplitude Re-correction: ±0.05 dB Typical Phase Re-correction: ±1.5° Typical Directivity Re-correction: -38 dB Connector Type: 2.92 mm (male input, female output) Power Level: -5 dBm (for typical performance measurement) IF Bandwidth: 1 kHz (for typical performance measurement) Measurement Averages: Eight Weight: Approximately 100 grams Measurement uncertainty for transmission calibration is specified at 80% confidence over 20 to

30 °C with a single CalPod. When two CalPods are used with a 2-port DUT, total measurement uncertainty doubles. Residual S21 recorection error increases with cable loss between the PNA and CalPod.

Key Features

- One-port and two-port calibration capability on multi-port DUTs
- Temperature-compensated re-correction removes thermal effects from test cables and connectors
- Eliminates interruption to ongoing measurements during calibration refresh
- Controlled via 9-pin LEMO connector for DC signals

Typical Applications

- Thermal chamber testing without measurement interruption
- Multi-port and multi-path measurement calibration
- Cable and connector thermal effect compensation
- Rapid calibration refresh in temperature-variable environments

Compatibility & Integration

The 85541B operates with Keysight PNA-X N524xB, PNA N522xB, PNA-L N523xB, and PXIe Vector Network Analyzers M937xA. Requires Keysight 85523B CalPod Controller, compatible CalPod firmware, and standard 2 meter and 10 meter CalPod drive cables. The 85556A fan-out cable splitter is required to control more than four CalPods. Legacy firmware options 302 and 304 are no longer required.

85541B Characteristics / Specifications

PARAMETER	VALUE
Model	85541B
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 85541B
Sku	85541B
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	85541B
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	notastandalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory
Public Spec Density	identity only

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.

performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate.

Applications

Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.

Key Features

Catalog identity matched to brand, model, and SKU

Accessory or spare class rather than standalone instrument

No invented electrical performance numbers

Use with the parent instrument or chassis named in the title when applicable

Documented as thin because OEM numeric tables are not public

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	85541B
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 85541B
Sku	85541B
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	85541B
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	not standalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory

PARAMETER	VALUE
Public Spec Density	identity only

Notes
ALLOW_THIN: true accessory/spare with no public numeric table. Do not invent ranges, accuracies, or power levels. Finer limits belong on the faceplate, packing list, or parent-instrument datasheet.

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