

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 85531B

Agilent/Keysight 85531B 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  
85531B**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**85531B**

LISTING

<https://aumictechlabs.com/products/85531b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Keysight 85531B is a temperature-characterized CalPod calibration module designed for PNA family network analyzers operating across wide temperature ranges. It enables rapid calibration refresh without removing the device under test or reconnecting calibration standards, while compensating for thermal effects on test cables and connectors. The CalPod integrates with Keysight's measurement ecosystem to simplify multi-port and multi-path characterization.

Technical Specifications

|                                 |                                                                       |
|---------------------------------|-----------------------------------------------------------------------|
| Frequency Range:                | 100 MHz to 20 GHz                                                     |
| Amplitude Re-correction:        | $\pm 0.05$ dB (typical)                                               |
| Phase Re-correction:            | $\pm 1.5^\circ$ (typical)                                             |
| Directivity Re-correction:      | -38 dB (typical)                                                      |
| Temperature Compensation Range: | -30 °C to +80 °C                                                      |
| Insertion Loss:                 | 3.5 dB maximum (100 MHz to 10 GHz); 4.0 dB maximum (10 GHz to 20 GHz) |
| Return Loss at RF2 Output:      | 12.0 dB minimum (100 MHz to 5 GHz); 9.0 dB minimum (5 GHz to 20 GHz)  |
| Connectors:                     | 2.92 mm male (RF1)                                                    |

input), 2.92 mm female (RF2 output) Dimensions: 70 mm × 29 mm × 14 mm (excluding connectors) Weight: Approximately 100 grams

**Key Features**

- Calibration refresh capability without DUT removal or standard reconnection
- Temperature characterization data delivered on included USB drive
- ECal module characterization support for simplified multi-port measurements
- Thermal chamber testing optimization

**Typical Applications**

- Temperature-dependent device characterization in thermal chambers
- Rapid calibration updates during extended measurement campaigns
- Multi-port and multi-path network analyzer measurements

**Compatibility & Integration**

The 85531B operates with Keysight PNA-X N524xA, PNA N522xA, and PNA-L N5231/32/34/35/39A analyzers. It also supports M937xA series PXle vector network analyzers. Operation requires an 85523B CalPod Controller and compatible drive cables (85552A 20 GHz or 85553A 40 GHz). When controlling more than four CalPods, the 85556A fan-out cable splitter is required. Modern PNA firmware no longer requires Options 302 and 304 for temperature-characterized CalPod compatibility.

## 85531B Characteristics / Specifications

| PARAMETER            | VALUE                                                                  |
|----------------------|------------------------------------------------------------------------|
| Model                | 85531B                                                                 |
| Brand                | Agilent / Keysight                                                     |
| Catalog Title        | Agilent/Keysight 85531B                                                |
| Sku                  | 85531B                                                                 |
| 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   | 85531B                                                                 |
| 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

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|----------------------|------------------------------------------------------------------------|
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| Brand                | Agilent / Keysight                                                     |
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| Configuration Code   | 85531B                                                                 |
| 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto: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.