

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85542B

Agilent/Keysight 85542B 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
85542B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85542B

LISTING

<https://aumictechlabs.com/products/85542b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85542B is a 40 GHz Thermal-Vacuum (TVAC) Electronic Calibration (ECal) module designed for calibration refresh in specialized thermal-vacuum environments. Operating across 500 MHz to 40 GHz, this CalPod delivers re-correction capabilities with amplitude accuracy of ± 0.05 dB, phase accuracy of $\pm 1.5^\circ$, and directivity performance at -38 dB. The module simplifies multi-port and multi-path calibration by enabling one-port calibrations on each port of a Device Under Test, eliminating the need for traditional recalibration in complex setups. Technical Specifications Frequency Range: 500 MHz to 40 GHz Operating Temperature: -30 °C to +80 °C Amplitude Re-correction: Typically ± 0.05 dB Phase Re-correction: Typically $\pm 1.5^\circ$ Directivity Re-correction: Typically -38 dB Connectors: 2.92 mm Key Features Operates

within thermal-vacuum chamber environments Supports control of up to 48 CalPods with simultaneous recalibration of up to four units Includes optional 85556A fan-out cable splitter for multi-CalPod management Requires 85523B CalPod Controller and CalPod firmware Compatible with Keysight PNA firmware version A.09.33.05 or later (Options 302 and 304 no longer required)Compatibility & Integration The 85542B integrates with the Keysight PNA family of network analyzers: PNA-X N524xB, PNA N522xB, PNA-L N523xB, and PXIe M937xA vector network analyzers. Essential accessories include the 85523B CalPod Controller, CalPod firmware for PNA or M937xA platforms, and drive cables. The 85556A fan-out cable splitter is optional for controlling more than four CalPods simultaneously.

85542B Characteristics / Specifications

PARAMETER	VALUE
Model	85542B
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 85542B
Sku	85542B
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	85542B
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	85542B
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 85542B
Sku	85542B
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	85542B
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.