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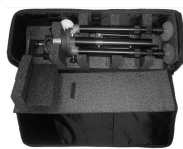
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1734B

HP Agilent E1734B Dual Beam Interferometer Electronics for 5529A The HP E1734B is compensated dual-beam interferometer electronics used with HP 5529A dynamic calibrator / laser measurement systems. OEM 5529A/E173x literature lists E1734B as the interferometer board/electronics for dual-beam compensated measurements with 5519/5517 laser heads and 107xx optics. Machine-tool and CMM dynamic calibration with 5529A laser systems using dual-beam compensation. Compensation for deadpath/environment class The HP E1734B is compensated dual-beam interferometer electronics used with HP 5529A dynamic calibrator / laser measurement systems. OEM 5529A/E173x literature lists E1734B as the interferometer board/electronics for dual-beam compensated measurements with 5519/5517 laser heads and 107xx optics. Machine-tool and CMM dynamic calibration with 5529A laser systems using dual-beam compensation. Compensation for deadpath/environment class Instrument Type: Dual beam interferometer electronics



MODEL

**Agilent / Keysight
E1734B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1734B

LISTING

<https://aumictechlabs.com/products/e1734b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1734B is a purpose-built transport and storage case for the Keysight 5530 Laser Calibration System. It secures and protects critical calibration components - including tripod legs, handles, posts of varying lengths, base plate, mounting plate, and right-angle clamp - during transit and field deployment. Technical Specifications The case features custom-molded, air-

channel ABS walls combined with ballistic nylon exterior construction. Interior support ribs and thick foam padding provide shock absorption and component isolation. Heavy-duty ball-bearing wheel assemblies enable transport across varied terrain and laboratory environments.

Key Features

- Custom air-channel ABS wall construction for impact resistance
- Ballistic nylon exterior for abrasion and puncture protection
- Interior foam padding with support ribs for component stabilization
- Ball-bearing wheel assemblies rated for heavy-duty service
- Sized and configured to accommodate full 5530 system component set

Typical Applications

Field calibration work, system transport between measurement locations, equipment staging, and on-site laser system deployment where component protection and portability are essential.

Compatibility & Integration

The E1734B integrates with the Keysight 5530 Laser Calibration System ecosystem. Keysight's IO Libraries Suite, Command Expert, and PathWave Vector Signal Analysis software support automated control and system configuration across PC-standard I/O interfaces, enabling integration into larger automated test and measurement workflows.

E1734B Characteristics / Specifications

PARAMETER	VALUE
Model	E1734B
Instrument Type	Dual beam interferometer electronics
Host System	5529A dynamic calibrator / laser measurement
Related Laser Heads	5517 5519 class
Related Optics	107xx interferometer optics
Related Board	E173x laser electronics family
Manufacturer	HP Agilent Keysight
Form Factor	interferometer electronics module/board
Literature	5529A / E1734B interferometer electronics
Use Case	dual-beam compensated displacement
Wavelength	633 nm HeNe class laser heads
Measurement	displacement / velocity / straightness class per optics
Operating Temperature Class	5529A system
Power	from 5529A
Interface	5529A laser axis
Compensation	dual-beam
Axes	dual beam
Related Weather Station	5529A environmental compensation
Resolution	laser interferometer resolution class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits
Operating temperature	Class: 5529A system

E1734B Specifications

PARAMETER	VALUE
Applications	Machine-tool and CMM dynamic calibration with 5529A laser systems using dual-beam compensation.
Works with 5529A	Compensation for deadpath/environment class
Pairs with 5519A/5517 laser heads	E173x laser-board family
Technical Specifications	Model: E1734B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 5529A system
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Operating Temperature Class	5529A system
Power	from 5529A
Interface	5529A laser axis
Compensation	dual-beam
Axes	dual beam
Related Weather Station	5529A environmental compensation
Resolution	laser interferometer resolution class
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits Notes Identity from HP 5529A/E1734B dual-beam interferometer electronics listings. Linear accuracy is that of the 5529A/5519 laser and optics, notastandalone E1734B voltage spec.

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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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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30-day returns
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Generated August 15, 2026

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