

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

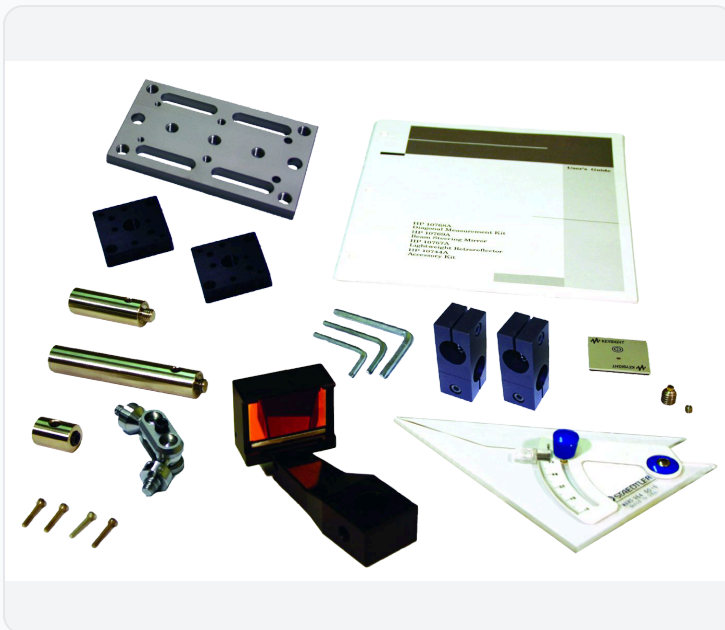
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 10768A

Agilent/Keysight 10768A 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
10768A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****10768A****LISTING**<https://aumictechlabs.com/products/10768a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 10768A Diagonal Measurement Kit is a specialized accessory for the Keysight 5530 Laser Calibration System, engineered to measure linear distances across four body diagonals for comprehensive volumetric positioning assessment. This kit enables quick verification of machine tool performance against specified metrics and supports long-term drift testing to evaluate thermal effects on geometric accuracy. By establishing individual performance signatures, the 10768A optimizes measurement repeatability and enables predictive analysis of performance changes over time. Technical Specifications Measurement Range Up to 40 m (130 ft) with linear optics Up to 80 m (260 ft) with long-range option Accuracy ± 0.4 ppm with Keysight E1738A air sensor ± 0.1 ppm in vacuum ± 0.02 ppm in vacuum with laser head calibrated to Z540-1 or MIL-STD-45662A Resolution (with associated optics) Linear optics (10766A): 1 nm (0.04 μ m) Plane

mirror optics (10724A): 0.5 nm (0.02 μ m) High-resolution plane mirror optics (10716A): 0.25 nm (0.01 μ m)

Key Features

- Four-diagonal measurement capability for volumetric performance characterization
- Interchangeable optics supporting multiple resolution and range requirements
- Environmental sensing integration with Keysight E1738A air sensor
- Calibration traceability to Z540-1 and MIL-STD-45662A standards
- Comprehensive mechanical assembly kit with adjustable positioning components

Typical Applications

- Machine tool volumetric calibration and acceptance testing
- Coordinate Measuring Machine (CMM) performance verification
- Thermal stability and long-term drift assessment
- Performance signature mapping for predictive maintenance

Compatibility & Integration

This kit operates exclusively with the Keysight 5530 Laser Calibration System. Measurement accuracy and resolution depend on the selected optical configuration and environmental compensation method.

10768A Characteristics / Specifications

PARAMETER	VALUE
Model	10768A
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 10768A
Sku	10768A
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	10768A
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

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PARAMETER	VALUE
Model	10768A
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight 10768A
Sku	10768A
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	10768A
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

788 S 500 E, Pleasant Grove, UT 84062
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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.