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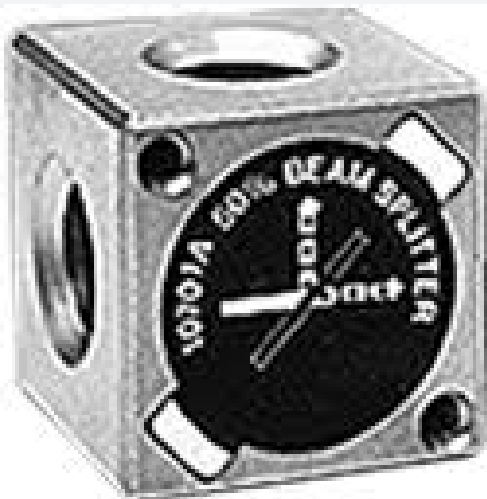
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 10701A

HP Agilent Keysight 10701A 50 Percent Beam Splitter The 10701A is a 50 percent polarizing beam splitter for HP/Agilent/Keysight laser-interferometer positioning systems. OEM optics datasheet 5964-6190E lists reflect 1/2 and transmit 1/2 of the incoming laser beam, mass 62 g (2.2 oz), and the 10710B mount shared with 10700A, 10705A, and 10707A. Companion 10700A is the 33 percent splitter (reflect 1/3, transmit 2/3, also 62 g). 10707A beam bender is 58 g (2.1 oz) at 90 degrees. Designed for the 6 mm HeNe measurement beam used with 5517/5519 laser heads; 9 mm beams use 10725A/10726A/10728A bare optics instead. The 10701A is a 50 percent polarizing beam splitter for HP/Agilent/Keysight laser-interferometer positioning systems. OEM optics datasheet 5964-6190E lists reflect 1/2 and transmit 1/2 of the incoming laser beam, mass 62 g (2.2 oz), and the 10710B mount shared with 10700A, 10705A, and 10707A. Companion 10700A is the 33 percent splitter (reflect 1/3, transmit 2/3, also 62 g). 10707A beam bender is 58 g (2.1 oz) at 90 degrees. Designed for the 6 mm HeNe measurement beam used with 5517/5519 laser heads; 9 mm beams use 10725A/10726A/10728A bare optics instead. Splitting a 633 nm interferometer beam equally into two measurement paths on machine-tool and stage metrology axes.



MODEL

**Agilent / Keysight
10701A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

10701A

LISTING

<https://aumictechlabs.com/products/10701a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 10701A is a 50% beam splitter designed for high-resolution measurement applications. It is engineered to work with laser beam diameters of 6 mm or less, reflecting half of the incoming laser beam and transmitting the other half. This optical component is integrated into a housing for standard mounting, offering flexibility within optical layouts. The 10701A is part of a suite of directing optics products that are available for use in PC and VMEbus compatible systems.

Technical Specifications

- * **Product Type:** 50% Beam Splitter
- Beam Diameter Compatibility:** Up to 6 mm
- Functionality:** Reflects 50% of the incoming laser beam, transmits 50% of the incoming laser beam
- Mounting:** Integrated housing for standard mounting
- Compatibility ***
- System Compatibility:** Available for use in PC and VMEbus compatible systems.
- Associated Systems:** The 10701A is listed in service manuals for laser heads and receivers, suggesting compatibility with various Agilent/Keysight metrology and measurement systems.
- Physical Characteristics**
- * **Housing:** Includes housing for standard mounting.

Why Choose Aumictech for Agilent/Keysight 10701A? At Aumictech, we specialize in supplying high-end laser optics equipment. Whether you need precise beam splitting for interferometry, stable beam delivery for metrology systems, or solid optical components for precision measurement, our team ensures the Agilent/Keysight 10701A delivers maximum performance for your application.

10701A Characteristics / Specifications

PARAMETER	VALUE
Model	10701A
Instrument Type	50 percent laser interferometer beam splitter
Split Ratio	reflects 1/2, transmits 1/2 of incoming beam
Mass	62 g (2.2 oz)
Mount	10710B (also 10700A, 10705A, 10707A)
Companion Thirty Three	10700A 33 percent splitter, 62 g (2.2 oz)
Companion Bender	10707A 90 degree beam bender, 58 g (2.1 oz)
Beam Diameter Class	6 mm HeNe measurement beam
Nine Mm Splitter	10725A 50 percent 9 mm bare optic, 2 g (0.07 oz)
Nine Mm Bender	10726A 9 mm bender, 10 g (0.35 oz)
Nine Mm Mirror	10728A 9 mm plane mirror, 21 g (0.74 oz)
Dual Return Splitter	10567A 50 percent dual-beam splitter, 317 g (11.3 oz)
Laser Family	5517 / 5519 HeNe interferometer heads
Wavelength Class	633 nm HeNe
Literature	Keysight 5964-6190E Optics and Laser Heads
Manufacturer	HP Agilent Keysight
Form Factor	housed cube splitter
System Role	multi-axis beam distribution
Aperture Class	10.16 mm (0.40 in) class ports on the housed family
Fastener Class	number 4-40 and number 6-32 family mounts
Application Class	laser interferometer positioning
Documentation Type	OEM laser and optics datasheet
Related Interferometer	10702A linear interferometer 232 g (8.2 oz)
Related Reflector	10703A cube-corner reflector 42 g (1.5 oz)
Use Case	equal split ofameasurement beam

10701A Specifications

PARAMETER	VALUE
HP Agilent Keysight 10701A 50 Percent Beam Splitter	Overview
Applications	Splitting a 633 nm interferometer beam equally into two measurement paths on machine-tool and stage metrology axes.
Key Features	50 percent reflect / 50 percent transmit split
Technical Specifications	Model: 10701A

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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Notes

From Keysight/Agilent Optics and Laser Heads datasheet 5964-6190E (10701A 50 percent split, 62 g; 10700A/10707A companions; 6 mm vs 9 mm optic families). Wavefront and coating plots are on the optic drawing, not invented here.

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.