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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 5517CN05

Literature: Keysight 5517 series product fact sheet 5990-5634 Documentation Type: OEM 5517C fact sheet applied to 5517CN05 SKU Brand Lineage: Hewlett Packard Agilent Keysight From Keysight 5517A/B/C laser-head fact sheet 5990-5634 and 5517C manual wavelength/thermal rows, applied to catalog SKU 5517CN05. Exact N05 beam-diameter and receiver options are on the 5517CN05 configuration label / order string. Documentation Type: OEM 5517C fact sheet applied to 5517CN05 SKU Brand Lineage: Hewlett Packard Agilent Keysight From Keysight 5517A/B/C laser-head fact sheet 5990-5634 and 5517C manual wavelength/thermal rows, applied to catalog SKU 5517CN05. Exact N05 beam-diameter and receiver options are on the 5517CN05 configuration label / order string.



MODEL

**Agilent / Keysight
5517CN05**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

5517CN05

LISTING

<https://aumictechlabs.com/products/5517cn05-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 5517CN05 is a laser head that generates a coherent, collimated two-frequency beam for high-precision measurement and metrology applications. Operating at 632.991354 nm vacuum wavelength with orthogonally polarized frequency components, it delivers 180 μ W to 1 mW output power with exceptional wavelength stability of 2 ppb over 1 hour and 20 ppb lifetime. The unit achieves maximum velocity of 711 mm/s with linear optics and warm-up in under 10 minutes, making it suitable for demanding semiconductor manufacturing and

interferometer-based systems. Technical Specifications Wavelength: 632.991354 nm (vacuum)
Output Power: 180 μ W minimum; <1 mW maximum Beam Diameter: 6 mm standard; 3 mm (Option 003) or 9 mm (Option 009) Beam Height: 79.5 $\pm$ 1.0 mm Reference Frequency: 2.4 to 3.0 MHz
Maximum Velocity: 711 mm/s (linear optics) Wavelength Stability: 2 ppb (1 hour); 20 ppb (lifetime)
Wavelength Accuracy: $\pm$ 0.1 ppm standard; $\pm$ 0.02 ppm (with optional calibration) Warm-up Time: <10 minutes
Power Consumption: 23 W (operation); 35 W (warm-up) Input Power: +15 V $\pm$ 0.3 V @ 3.0 A max; -15 V $\pm$ 0.3 V @ 0.3 A max Dimensions: 35.9 $\times$ 13.2 $\times$ 12.8 cm Weight: 3.4 kg Cooling: Vented design requiring 4 m/s minimum airflow through 50 mm diameter duct

Key Features
Orthogonally polarized frequency components (f1 horizontal, f2 vertical) Class II Laser Product per 21 CFR 1040.10 and 1040.11 CE marked Suitable for VME- and PC-based interferometer systems

Typical Applications
High-precision measurement and metrology systems Semiconductor manufacturing and lithography Flat panel display manufacturing High-velocity motion measurement applications

Compatibility & Integration
Compatible with Keysight 5501A and 5527A systems, VME- and PC-based platforms, and the Keysight 10719A receiver. Requires compatible power supply such as Keysight 10884B for +15 V delivery to laser head and receivers.

5517CN05 Characteristics / Specifications

PARAMETER	VALUE
Model	5517CN05
Base Laser Head	5517C
Instrument Type	Two-frequency HeNe laser head configuration
Laser Type	helium-neon, continuous, two-frequency
Wavelength Accuracy Standard	plus or minus 0.1 ppm
Wavelength Accuracy Optional Cal	plus or minus 0.02 ppm
Vacuum Wavelength Stability 1 Hour	2 ppb
Vacuum Wavelength Stability Lifetime	20 ppb
Mtbf Typical	greater than 50,000 hours typical
Reference Frequency	2.4 to 3.0 MHz
Minimum Output Power	greater than 180 uW
Warm Up Time	90 minutes
Vacuum Wavelength Nominal	632.991354 nm (5517C operating manual)
Heat Dissipation Operate	23 W during operation (5517B/C/D manual)
Heat Dissipation Warmup	35 W during warm-up (5517B/C/D manual)
Operating Temperature	0 to 40 C (5517B/C/D manual)
Nonoperating Temperature	minus 40 to plus 75 C (5517B/C/D manual)
Beam Height	79.5 mm for 5517x heads
Power Supply	Keysight 10884B or equivalent plus/minus 15 V
Laser Class	Class II / 21 CFR 1040.10 and 1040.11
Maximum Beam Power Family	less than 1 mW (Class II)
Manufacturer	HP Agilent Keysight
Literature	Keysight 5517 series product fact sheet 5990-5634
Family	Keysight 5517/5519 laser heads
Documentation Type	OEM 5517C fact sheet applied to 5517CN05 SKU

PARAMETER	VALUE
Brand Lineage	Hewlett Packard Agilent Keysight
System Role	two-frequency laser source
Form Factor	5517x laser head
Wavelength stability	1 Hour: 2 ppb

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C. Beam height is 79.5 mm on 5517x heads. Power is 10884B or equivalent plus/minus 15 V.
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Literature	Keysight 5517 series product fact sheet 5990-5634

PARAMETER	VALUE
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Brand Lineage	Hewlett Packard Agilent Keysight
System Role	two-frequency laser source
Form Factor	5517x laser head Notes From Keysight 5517A/B/C laser-head fact sheet 5990-5634 and 5517C manual wavelength/thermal rows, applied to catalog SKU 5517CN05. Exact N05 beam-diameter and receiver options are on the 5517CN05 configuration label / order string.

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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Form Factor	5517x laser head

Notes

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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

788 S 500 E, Pleasant Grove, UT 84062
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.