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**Data Sheet**

August 7, 2026

KEYSIGHT

# Keysight (Agilent) 5245L Electronic Counter

Keysight (Agilent) 5245L Electronic Counter The HP/Agilent/Keysight 5245L is a classic solid-state electronic counter with an 8-digit Nixie display. Base instrument measures frequency to 50 MHz, period, period average, and ratio, with decade scaling and standard frequency outputs. Functionality expands via 52xx-series plug-ins (frequency converters, time interval, DVM, preset, etc.). Long production life from the 1960s catalog era. General-purpose frequency/period/ratio counting; expandable microwave counting with converter plug-ins; legacy metrology and calibration-lab support. The HP/Agilent/Keysight 5245L is a classic solid-state electronic counter with an 8-digit Nixie display. Base instrument measures frequency to 50 MHz, period, period average, and ratio, with decade scaling and standard frequency outputs. Functionality expands via 52xx-series plug-ins (frequency converters, time interval, DVM, preset, etc.). Long production life from the 1960s catalog era. General-purpose frequency/period/ratio counting; expandable microwave counting with converter plug-ins; legacy metrology and calibration-lab support.

No photo

MODEL

**Keysight 5245L**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**5245L**

LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## Features & description

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From manufacturer datasheet

### Features

- Display: 8-digit Nixie readout with positioned decimal and units annunciator
- Frequency range (base): 0 to 50 MHz (DC coupled); 25 Hz to 50 MHz (AC input, max sensitivity)
- Gate times: 1  $\mu$ s to 10 s in decade steps
- Accuracy:  $\pm 1$  count  $\pm$  time-base accuracy
- Period: 1  $\mu$ s to 10 s class; period averages 10 to  $10^5$  (family documentation)
- Ratio and multiplied-ratio measurements of two frequencies
- Decade scaling to  $10^9$  for frequencies to 50 MHz
- Standard output frequencies: 0.1 Hz to 10 MHz in decade steps (from oven oscillator chain)
- Time base: oven-controlled 1 MHz crystal oscillator (5245M is double-oven high-stability variant)
- Self-check: counts 10 MHz for selected gate time
- Power: 115/230 Vac, 50–60 Hz,  $\sim 80$  W
- Dimensions:  $\sim 16\text{-}3/4''$  W  $\times$   $5\text{-}1/2''$  H  $\times$   $16\text{-}3/8''$  D ( $\approx 425 \times 133 \times 416$  mm); net weight  $\sim 32$  lb ( $\approx 14.5$  kg)
- Options: Opt 02/03 BCD outputs; Opt 908 rack flanges
- Plug-in examples: 5253A/B, 5254A, 5255A, 5257A converters (extend to microwave); 5261A, 5262A, 5264A, 5265A accessories

## 5245L Characteristics / Specifications

| PARAMETER                   | VALUE                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       | 5245L                                                                                                                                                                                                                                                                                                                    |
| Manufacturer                | Keysight Technologies (Agilent / Hewlett-Packard)                                                                                                                                                                                                                                                                        |
| Instrument Type             | Electronic Counter                                                                                                                                                                                                                                                                                                       |
| Family                      | 5245 Series                                                                                                                                                                                                                                                                                                              |
| Alias                       | 5245L; HP 5245L; Agilent 5245L Frequency / Time 0–50 MHz base; 8-digit Nixie; oven 1 MHz TB; plug-in expandable Operational Notes<br>Prefer HP 5245L operating/service manual for serial-prefix-specific limits. Plug-in frequency extension and accuracy depend on the installed converter module and time-base option. |
| Display                     | 8-digit Nixie readout with positioned decimal and units annunciator                                                                                                                                                                                                                                                      |
| Frequency range (base)      | 0 to 50 MHz (DC coupled); 25 Hz to 50 MHz (AC input, max sensitivity)                                                                                                                                                                                                                                                    |
| Gate times                  | 1 $\mu$ s to 10 s in decade steps                                                                                                                                                                                                                                                                                        |
| Accuracy                    | $\pm 1$ count $\pm$ time-base accuracy                                                                                                                                                                                                                                                                                   |
| Period                      | 1 $\mu$ s to 10 s class; period averages 10 to $10^5$ (family documentation)                                                                                                                                                                                                                                             |
| Standard output frequencies | 0.1 Hz to 10 MHz in decade steps (from oven oscillator chain)                                                                                                                                                                                                                                                            |
| Time base                   | oven-controlled 1 MHz crystal oscillator (5245M is double-oven high-stability variant)                                                                                                                                                                                                                                   |
| Self-check                  | counts 10 MHz for selected gate time                                                                                                                                                                                                                                                                                     |
| Power                       | 115/230 Vac, 50–60 Hz, ~80 W                                                                                                                                                                                                                                                                                             |
| Dimensions                  | ~16-3/4" W $\times$ 5-1/2" H $\times$ 16-3/8" D ( $\approx 425 \times 133 \times 416$ mm); net weight ~32 lb ( $\approx 14.5$ kg)                                                                                                                                                                                        |
| Options                     | Opt 02/03 BCD outputs; Opt 908 rack flanges                                                                                                                                                                                                                                                                              |
| Plug-in examples            | 5253A/B, 5254A, 5255A, 5257A converters (extend to microwave);<br>5261A, 5262A, 5264A, 5265A accessories                                                                                                                                                                                                                 |

# 5245L Specifications

| PARAMETER                                   | VALUE                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------|
| Keysight (Agilent) 5245L Electronic Counter | Overview                                                                       |
| Key Features                                | - Display: 8-digit Nixie readout with positioned decimal and units annunciator |
| Technical Specifications                    | Model: 5245L                                                                   |
| Frequency / Time                            | 0-50 MHz base; 8-digit Nixie; oven 1 MHz TB; plug-in expandable                |

# 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

Specifications

| PARAMETER       | VALUE                                             |
|-----------------|---------------------------------------------------|
| Model           | 5245L                                             |
| Manufacturer    | Keysight Technologies (Agilent / Hewlett-Packard) |
| Instrument Type | Electronic Counter                                |
| Family          | 5245 Series                                       |
| Alias           | 5245L; HP 5245L; Agilent 5245L                    |

Frequency / Time

0-50 MHz base; 8-digit Nixie; oven 1 MHz TB; plug-in expandable

Operational Notes

Prefer HP 5245L operating/service manual for serial-prefix-specific limits. Plug-in frequency extension and accuracy depend on the installed converter module and time-base option.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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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.