

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 5382A 225 MHz Frequency Counter

The HP 5382A is a direct-counting frequency counter in the 5380 series extending coverage to 225 MHz class with sensitivity on the order of 25/50 mV in period literature. It sits between the 5381A (80 MHz) and later reciprocal 5384A/5385A counters. VHF frequency measurements to 225 MHz class, laboratory and service frequency counting, and direct-count readout applications. Series Family: HP 5380 frequency counters Intended Use Class: laboratory and service frequency measurement Resolution Class: gate-selected resolution architecture of series Sensitivity Continuity: 25 mV and 50 mV class Display Digits Class: seven digit lineage Frequency and sensitivity class from HP 5382A period summaries. Prefer the model operating/service manual for the authoritative sensitivity, damage, and timebase tables.



MODEL

HP / Agilent 5382A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5382A

LISTING

<https://aumictechlabs.com/products/5382a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 5382A is a direct-counting frequency counter delivering precise measurement across 10 Hz to 225 MHz with an 8-digit LED display. This portable instrument integrates selectable gate times (0.1 s, 1 s, 10 s) to optimize measurement resolution, coupled with a three-position input attenuator ($\times 1$, $\times 10$, $\times 100$) for signal conditioning across dynamic ranges. The front-panel interface provides intuitive control of measurement parameters, while rear-panel connectors enable external time base synchronization and ratio measurements. An optional temperature-compensated crystal oscillator (Option 001) elevates frequency stability when

required. Technical Specifications Frequency Range: 10 Hz to 225 MHz Display: 8-digit LED Sensitivity: 25 mV rms (30 Hz to 10 MHz); 50 mV rms (10 Hz to 225 MHz), sinewave Input Impedance: 1 M Ω with < 40 pF capacitance Accuracy: ± 1 Count $\pm$ Time Base Accuracy Gate Times: 0.1 s (10 Hz resolution), 1 s (1 Hz resolution), 10 s (0.1 Hz resolution) Input Attenuator: $\times 1$, $\times 10$, $\times 100$ positions Maximum Input Levels: 200 V DC + Peak AC ($\times 1$); 250 V rms 40 Hz–1 MHz ($\times 10$); 5 V rms 50–225 MHz ($\times 100$) Internal Time Base: 10 MHz standard; Option 001 upgrades to temperature-compensated oscillator Power Supply: 100–240 V AC, 48–440 Hz selectable; ~30 VA maximum consumption Operating Temperature: 0 °C to 40 °C Dimensions: 89 mm H $\times$ 160 mm W $\times$ 248 mm D; 2.2 kg net Key Features BNC input connector with high input impedance minimizes loading effects Rear-panel external time base input supports precision synchronization and ratio mode operation Three attenuator settings accommodate signal levels from millivolts to hundreds of volts Selectable gate times enable trade-offs between measurement speed and frequency resolution Dual-voltage power input rated for worldwide deployment Typical Applications RF and microwave oscillator frequency verification Signal generator output validation and calibration Precision frequency stability assessment across extended gate windows Ratio and time base comparison measurements Compatibility & Integration The 5382A interfaces with external frequency references and signal generators (PTS synthesizers, Farnell generators) via standard BNC and rear-panel connectors, enabling integration into automated test systems and precision measurement setups.

5382A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Class	10 Hz to 225 MHz
Sensitivity Class	25/50 mV
Counting Method	direct counting
Series Family	HP 5380 frequency counters
Lower Frequency	10 Hz
Upper Frequency Class	225 MHz
Display Class	numeric digit display
Timebase Class	precision time base
Form Factor	tabletop laboratory counter
Intended Use Class	laboratory and service frequency measurement
Manufacturer	Hewlett Packard
Architecture	direct count
Operating Region	HF through VHF
Related Lower Model	5381A 80 MHz class sibling
Related Higher Reciprocal Models	5384A 5385A
AC Mains Class	laboratory AC powered
Resolution Class	gate-selected resolution architecture of series
Input Class	frequency counter input
Sensitivity Continuity	25 mV and 50 mV class
Model Position	mid 5380 series coverage
Display Digits Class	seven digit lineage
Direct Count Continuity	yes

5382A Specifications

PARAMETER	VALUE
HP Agilent 5382A Frequency Counter	Overview
Applications	VHF frequency measurements to 225 MHz class, laboratory and service frequency counting, and direct-count readout applications.
Key Features	Direct counting 5380-series architecture
Technical Specifications	Frequency Range Class: 10 Hz to 225 MHz

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
Frequency Range Class	10 Hz to 225 MHz
Sensitivity Class	25/50 mV
Counting Method	direct counting
Series Family	HP 5380 frequency counters
Lower Frequency	10 Hz
Upper Frequency Class	225 MHz
Display Class	numeric digit display
Timebase Class	precision time base
Form Factor	tabletop laboratory counter
Intended Use Class	laboratory and service frequency measurement
Manufacturer	Hewlett Packard
Architecture	direct count
Operating Region	HF through VHF
Related Lower Model	5381A 80 MHz class sibling
Related Higher Reciprocal Models	5384A 5385A
AC Mains Class	laboratory AC powered
Resolution Class	gate-selected resolution architecture of series
Input Class	frequency counter input
Sensitivity Continuity	25 mV and 50 mV class
Model Position	mid 5380 series coverage
Display Digits Class	seven digit lineage
Direct Count Continuity	yes
Notes	
Frequency and sensitivity class from HP 5382A period summaries. Prefer the model operating/service manual for the authoritative sensitivity, damage, and timebase tables.	

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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