

KEYSIGHT TECHNOLOGIES (AGILENT HP)

5335A

The HP / Agilent (now Keysight) 5335A is a high-performance 200 MHz universal counter that offers comprehensive measurement features including frequency, period, time interval, ratio, and totalize, alongside advanced math and statistics functions. With a 2 ns single-shot time interval resolution (100 ps averaged) and external arming, it is highly suited for detailed timing and frequency analysis. Channel A supports measurements up to 200 MHz, Channel B up to 100 MHz, and an optional Channel C expands frequency coverage to 1.3 GHz.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
Display	LED

Physical

Power Supply	100/120/220/240 V (+5%, -10%), 48-66 Hz; 130 VA max
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	425.5 × 132.6 × 345.4 mm
Weight	11 kg

Measurement Functions

Measurement Functions	Frequency, Period, Time Interval, Ratio, Totalize, Pulse Width, Rise/Fall Time, Phase, Duty Cycle, Slew Rate
Math Functions	Scale, Offset, Smooth (digital low pass filter)
Statistics Functions	Mean, Standard Deviation

Input Characteristics (Standard Channels A & B)

Frequency Range (Channel A)	DC to 200 MHz
Frequency Range (Channel B)	DC to 200 MHz
Input Impedance	1 MΩ or 50 Ω (selectable)

Input Characteristics (Microwave Channel C Option)

Frequency Range (Channel C Option)	Up to 1.3 GHz (with Channel C option)
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Time Interval Specifications

Single-Shot Resolution	2 ns
Average Resolution	100 ps

Connectivity and Interfaces

External Arming	Supported
Remote Control Interface	HP-IB (standard)

Time Base

Time Base Frequency	10 MHz
Standard Time Base Aging Rate	$< 3 \times 10^{-7}$ / month
Option 010 Time Base Aging Rate	$< 5 \times 10^{-10}$ / day

Input Characteristics

Sensitivity (Channels A & B)	25 mV rms (to 100 MHz), 50 mV rms (100 MHz to 200 MHz)
Trigger Level Range (Channels A & B)	± 5 V ($\times 1$ attenuator), ± 50 V ($\times 10$ attenuator)
Input Low Pass Filter	100 kHz nominal (switchable)
Input Coupling	AC or DC
Input Attenuator	$\times 1$ or $\times 10$
Maximum Input Voltage (50 Ω)	5 V rms
Maximum Input Voltage (1 M Ω)	250 V (DC + peak AC) up to 100 kHz

Options

Option 020	Digital Voltmeter (DVM) module
Option 030	1.3 GHz Channel C
Option 040	Expanded MATE/CiIL compatibility

TECHNOLOGY

Universal Counter

APPLICATIONS

Precision frequency, time interval, and phase measurements in benchtop and automated test environments

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.