

KEYSIGHT TECHNOLOGIES (AGILENT HP)

5351B

The Keysight (formerly Agilent HP) 5351B is a high-performance 26.5 GHz CW microwave frequency counter designed for fast and precise frequency measurements. It features integrated GaAs hybrid circuit technology for exceptional speed, sensitivity, and reliability. Highly versatile, it operates from 10 Hz to 26.5 GHz and is fully programmable via HP-IB for automated test applications.

SPECIFICATIONS

Physical

Operating Temperature	0 to 50 °C °C
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Low-Frequency Input Characteristics (Channel 1)

Frequency Range (Channel 1)	10 Hz to 525 MHz
Sensitivity (Channel 1)	25 mV rms (10 Hz to 525 MHz)
Connector Type (Channel 1)	BNC female

Microwave Input Characteristics (Channel 2)

Frequency Range (Channel 2)	500 MHz to 26.5 GHz
Sensitivity (500 MHz to 12.4 GHz)	-40 dBm
Sensitivity (12.4 GHz to 20.0 GHz)	-30 dBm
Sensitivity (20.0 GHz to 26.5 GHz)	-20 dBm
Input Impedance (Channel 2)	50 Ω nominal
Connector Type (Channel 2)	APC 3.5 female

Timebase and Reference

Standard Reference Frequency	10 MHz
External Reference Output Frequency	10 MHz

Measurement and Resolution

Frequency Resolution	Selectable 1 Hz to 1 MHz
Least Significant Digit (LSD)	1 Hz to 1 MHz (selectable)

Functions and Features

Automatic Amplitude Discrimination	Measures frequency of the highest-amplitude signal in multi-signal environments
Math Functions	Measurement scaling and frequency offset
Self-Test and Diagnostics	Built-in microprogrammed diagnostics and troubleshooting routines
Smooth Filter	Computes a running average to stabilize noisy measurements

Options and Accessories

Option 002 (Rear Panel Connector Configuration)	Moves Channel 1 and Channel 2 input connectors to the rear panel
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Options

Option 011	MATE CIIL Interface
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TECHNOLOGY

GaAs hybrid circuit

APPLICATIONS

Microwave frequency measurement, source drift tracking, system calibration, VCO testing

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