

KEYSIGHT TECHNOLOGIES (AGILENT HP)

5352B

The Keysight (formerly Agilent HP) 5352B is a high-performance 40 GHz CW microwave frequency counter designed for fast, precise measurements across a wide range from 10 Hz to 40 GHz (extendable to 46 GHz with Option 005). Featuring microwave components integrated on a single hybrid GaAs circuit, the 5352B offers outstanding sensitivity, fast acquisition times, robust FM tolerance, and rapid tracking of frequency drift. With automated amplitude discrimination, math scaling, and comprehensive GPIB programmability, the 5352B is ideal for demanding microwave test environments, VCO testing, and automated systems integration.

SPECIFICATIONS

Channel 1 Input (Low Frequency)

Channel 1 Frequency Range	10 Hz - 525 MHz
Channel 1 Connector Type	BNC female
Channel 1 Sensitivity	10 Hz to 525 MHz: 25 mVrms

Channel 2 Input (Microwave)

Channel 2 Frequency Range	500 MHz - 40 GHz (46 GHz with Option 005)
Channel 2 Input Impedance	50 Ω nominal
Channel 2 Connector Type	Precision 2.4 mm male

Measurement & Resolution Capabilities

Frequency Resolution	1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz (selectable)
Least Significant Digit (LSD)	1 Hz to 1 MHz

Timebase & Reference Oscillator

Internal Nominal Frequency	10 MHz
External Reference Input Frequency	1, 2, 5, or 10 MHz
External Reference Input Level	1.5 Vp-p minimum into 1 k Ω
Reference Output Frequency	10 MHz

Acquisition & Modulation Tolerance

Acquisition Time (Manual Mode)	< 20 ms
Tracking Speed	1 GHz/second
FM Tolerance (Auto Mode)	20 MHz peak-to-peak
FM Rate (Modulation Frequency)	10 Hz to 10 MHz
AM Tolerance	Any modulation index provided the minimum signal level is within sensitivity

System Interfaces & Auxiliary Outputs

GPIB Interface Capabilities	SH1, AH1, T5, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1
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Physical & Environmental Specifications

Operating Temperature Range	0 °C to 50 °C
Rack Mount Height	2U (EIA standard)
Net Weight	10 kg (22 lb)

Ordering Options & Hardware Configurations

Option 005 Frequency Extension	Extends maximum frequency to 46 GHz
Option 006 Rear Panel Connectors	Moves input connectors to the rear panel

Power Requirements

AC Input Frequency	47.5 Hz - 440 Hz (100 / 120 V AC), 47.5 Hz - 66 Hz (220 / 240 V AC)
Standby Power Operation	Oven timebase (Opt 001/010) remains energized in Standby mode when AC power is connected

Interfaces

Command Compatibility	Backward compatible with HP 5350A, 5351A, and 5352A
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Options

Option 908 Rack Mount Kit	Adapts counter for installation in a standard 19-inch rack
Option 913 Rack Flange Kit	Adapts counter for installation in a standard 19-inch rack with front handles

Environmental

Operating Altitude	Up to 4,600 m (15,000 ft)
Storage Altitude	Up to 15,240 m (50,000 ft)

TECHNOLOGY

GaAs hybrid IC

APPLICATIONS

Microwave frequency measurements, VCO characterization, transmitter testing, calibration

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