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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 5352B 40 GHz CW Microwave Counter

HP Agilent 5352B 40 GHz CW Microwave Frequency Counter The Agilent 5352B isaCW microwave frequency counter with Input 1 covering 500 MHz to 40 GHz (46 GHz with Option 005). The OEM datasheet specifies sensitivity, damage levels, a broadband Input 2, selectable resolution, TCXO and oven time-base options, HP-IB dump rates, IF output, and math functions. Automatic frequency measurement of millimeter-wave and microwave CW sources, ATE counting to 40 GHz, and lab verification of synthesizers and VCOs. The Agilent 5352B isaCW microwave frequency counter with Input 1 covering 500 MHz to 40 GHz (46 GHz with Option 005). The OEM datasheet specifies sensitivity, damage levels, a broadband Input 2, selectable resolution, TCXO and oven time-base options, HP-IB dump rates, IF output, and math functions. Automatic frequency measurement of millimeter-wave and microwave CW sources, ATE counting to 40 GHz, and lab verification of synthesizers and VCOs. 40 GHz standard Input 1; 46 GHz with Option 005 Sleep mode reducing Input 1 emissions to typically less than -70 dBm



MODEL

HP / Agilent 5352B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5352B

LISTING

<https://aumictechlabs.com/products/5352b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 5352B is a 40 GHz continuous wave microwave counter engineered for precision frequency measurement across demanding applications in microwave engineering, communications testing, and radar system servicing. It delivers fast measurement throughput exceeding 100 readings per second, exceptional sensitivity down to -30 dBm typical, and selectable resolution from 1 Hz to 1 MHz on a single hybrid GaAs circuit platform. Technical Specifications Frequency Coverage Input 1: 10 Hz to 40 GHz (Option 005 extends to 46 GHz) Input 2: 10 Hz to 525 MHz Sensitivity 500 MHz to 26.5 GHz: -25 dBm (spec) / -30 dBm (typical @ 25°C) 26.5 GHz to 40 GHz: Linear decrease -25 to -15 dBm (spec) / -30 to -20 dBm (typical @ 25°C) Input Power Specifications Maximum input power: +7 dBm Damage level: +25 dBm Resolution & Accuracy Selectable resolution: 1 Hz to 1 MHz Accuracy: $\pm 1 \text{ LSD} \pm (\text{time-base error} \times \text{frequency})$ 3 LSD rms typical for 1 Hz–1 kHz resolution at 25°C; 7 LSD typical for 26.5–40 GHz Measurement Performance Auto mode: >100 readings/second over HP-IB Manual mode: >120 readings/second over HP-IB Automatic acquisition (fast-track): <60 ms; (normal FM): <125 ms; (low FM): <1.25 s Manual acquisition: 6 dB typical for signals within 500 MHz) Sleep mode reduces Input 1 emissions to <-70 dBm typical for noise-sensitive environments Math functions: scale, offset, exponential averaging AM tolerance: any modulation index above sensitivity threshold Typical Applications Microwave component characterization, communication system validation, radar frequency verification, and production test automation in RF/microwave laboratories.

5352B Characteristics / Specifications

PARAMETER	VALUE
Input 1 Frequency Range	500 MHz to 40 GHz
Input 1 Frequency Range Option 0	500 MHz to 46 GHz
Input 1 Sensitivity 500 MHz to 26.5 GHz Full Environment	-25 dBm
Input 1 Sensitivity 26.5 to 46 GHz Formula	$\text{dBm} = 0.741 f(\text{GHz}) - 44.6$
Input 1 Sensitivity Typical 25 C 500 MHz to 26.5 GHz	-30 dBm
Input 1 Maximum Input	+7 dBm
Input 1 Damage Level	+25 dBm
Input 2 Frequency Range	10 Hz to 525 MHz
Input 2 50 Ohm Range	10 MHz to 525 MHz
Input 2 1 Mohm Range	10 Hz to 80 MHz
Input 2 Sensitivity	25 mV rms full environment (15 mV typical at 25 C)
Input 2 Maximum 50 Ohm	+10 dBm
Input 2 Maximum 1 Mohm	1 V rms
Resolution Selectable	1 Hz to 1 MHz
Standard TCXO Aging	1×10^{-7} per month
IF Output	30 to 110 MHz at greater than -20 dBm into 50 ohm
Auto Mode Rate	greater than 100 readings/s, 10 kHz resolution DUMP
Size	425 mmWx 133 mmHx 358 mmDWeight: 11 kg (24 lb)
Power Requirements	100 VA max
Operating Temperature	0 C to 50 C

5352B Specifications

PARAMETER	VALUE
HP Agilent 5352B 40 GHz CW Microwave Frequency Counter	Overview
Key Features	40 GHz standard Input 1; 46 GHz with Option 005
Technical Specifications	Input 1 Frequency Range: 500 MHz to 40 GHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C

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

Input 1 Frequency Range: 500 MHz to 40 GHz

Input 1 Frequency Range Option 005: 500 MHz to 46 GHz

Input 1 Sensitivity 500 MHz to 26.5 GHz Full Environment: -25 dBm

Input 1 Sensitivity 26.5 to 46 GHz Formula: dBm = 0.741 f(GHz) - 44.6

Input 1 Sensitivity Typical 25 C 500 MHz to 26.5 GHz: -30 dBm

Specifications

PARAMETER	VALUE
IF Output	30 to 110 MHz at greater than -20 dBm into 50 ohm
Auto Mode Rate	greater than 100 readings/s, 10 kHz resolution DUMP
Size	425 mm W x 133 mm H x 358 mm D
Weight	11 kg (24 lb)
Power Requirements	100 VA max
Operating Temperature	0 C to 50 C

Specifications

PARAMETER	VALUE
Input 1 Maximum Input	+7 dBm
Input 1 Damage Level	+25 dBm
Input 2 Frequency Range	10 Hz to 525 MHz
Input 2 50 Ohm Range	10 MHz to 525 MHz
Input 2 1 Mohm Range	10 Hz to 80 MHz
Input 2 Sensitivity	25 mV rms full environment (15 mV typical at 25 C)
Input 2 Maximum 50 Ohm	+10 dBm
Input 2 Maximum 1 Mohm	1 V rms
Resolution Selectable	1 Hz to 1 MHz
Standard TCXO Aging	1 x 10^-7 per month

Option 001 Aging: 5 x 10^-10 per day

Option 010 Aging: 1 x 10^-10 per day

Specifications

PARAMETER	VALUE
IF Output	30 to 110 MHz at greater than -20 dBm into 50 ohm

PARAMETER	VALUE
Auto Mode Rate	greater than 100 readings/s, 10 kHz resolution DUMP
Size	425 mmWx 133 mmHx 358 mmDWeight: 11 kg (24 lb)
Power Requirements	100 VA max
Operating Temperature	0 C to 50 C

Notes

All numeric values from Agilent 5352B CW Microwave Counter data sheet. Option 005 extends upper frequency; verify installed options before stating 46 GHz capability.

Ordering Information

OPTION	DESCRIPTION
Option 005	Sleep mode reducing Input 1 emissions to typically less than -70 dBm
Option 001	Aging: 5×10^{-10} per day
Option 010	Aging: 1×10^{-10} per day

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
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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.