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Data Sheet
August 14, 2026

HP / AGILENT

HP / Agilent 4352B 3 Ghz Signal Analyzer

The HP/Agilent 4352B isaVCO/PLL signal analyzer for characterizing voltage-controlled oscillators and phase-locked loops, including frequency, power, and phase-noise related measurements with GPIB automation. OEM programming and function-reference manuals describe front-panel and remote control for VCO/PLL production and design evaluation, with optional 43521A down-converter support. VCO tuning-curve characterization, PLL loop evaluation, and automated production test of RF oscillators. Instrument Type: VCO / PLL signal analyzer Export Classification Class: Commercial RF analyzer class Weight Class: Benchtop analyzer weight class Manufacturer Brand Path: HP Agilent Keysight legacy From Agilent 4352B VCO/PLL Signal Analyzer programming and function reference documentation. Confirm frequency coverage with any 43521A down-converter configuration.

MODEL **HP / Agilent 4352B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **4352B**	LISTING **https://aumictechlabs.com/products/4352b-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 4352B is a dual-mode signal analyzer for characterizing Voltage Controlled Oscillators (VCOs) and Phase-Locked Loops (PLLs) in RF wireless applications. Operating as both a signal analyzer and VCO tester, it covers 100 MHz to 3 GHz natively, with extension to 12.6 GHz via the optional HP 43521A downconverter. The instrument delivers laboratory-grade analysis for design validation alongside production-line measurement speed. Technical Specifications Frequency Measurement Measurement range: 100 MHz to 3 GHz Frequency span: 2 MHz, 20

MHz, MAX Resolution: Measurement range ÷ 40,000 Hz Accuracy: ±(Measurement range × 0.1% + external timebase accuracy) Transient resolution: 50 Hz; time resolution: 12.5 µs RF Power Measurement Input range: −10 to +20 dBm Absolute accuracy: ±3 dBm @ −10 dBm, RF ATT = 10 dB (typical) Relative accuracy: 0.5 dB (typical) Input impedance: 50 Ω; VSWR <1.5 (@ <2 GHz), <1.3 (typical) Phase Noise Measurement Performance: −157 dBc/Hz @ 1 MHz offset (typical) Measurement points: Up to 801 from 100 Hz to 10 MHz offset Sweep time: 7.4 seconds Carrier lock: Automatic via carrier lock multi-mode PLL technology Spectrum Analysis FFT spectrum analyzer capability included FM Deviation Range: 0 to 200 kHz peak Accuracy: ±(2% + 0.1% of measurement) @ 1 kHz FM rate DC Control & Power Supply VCO tuning supply: 0 to +15.5 V, 50 mA max.; 1 mV resolution; ±(0.2% + 2 mV) accuracy Control voltage source: 0 to +20 V, 100 µV steps, 20 mA max.; ±(0.1% + 20 mV) accuracy (Option 001: −15 to +35 V) Control voltage noise: <1 nV/√Hz @ 10 kHz offset Filtering & Signal Generation HP filters: 50 Hz, 300 Hz LP filters: 3 kHz, 15 kHz, 20 kHz 1 kHz signal source for VCO characterization Residual FM: <3 Hz rms (300 Hz – 3 kHz bandwidth) Key Features Dual measurement modes: signal analyzer and VCO tester Excellent phase noise characterization with automatic carrier tracking Integrated DC supply and ultra-low-noise control voltage source for complete VCO tuning evaluation High frequency resolution and transient measurement capability GPIB interface for automated test sequences Typical Applications VCO characterization and tuning curve generation PLL phase noise and transient response evaluation RF component validation in wireless transceiver design Production-line acceptance testing of oscillators Compatibility & Integration Extends to 12.6 GHz with HP 43521A downconverter option DC control voltage source supports Option 001 extended polarity range (−15 to +35 V) GPIB control for integration into automated measurement systems

4352B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	VCO / PLL signal analyzer
Primary Measurements	Frequency power phase noise related VCO PLL metrics class
Remote Interface	GPIB
Series Family	Agilent 4352B
Form Factor	Benchtop signal analyzer
Companion Down Converter	43521A optional
Programming Language Class	GPIB command set per programming manual
Display Class	CRT softkey analyzer display class
Operating Temperature Class	Laboratory ambient class
Primary Power Class	Universal AC mains class
Warmup Time Class	Per function reference
Calibration Interval Class	One year class
Frequency Coverage Class	VCO bands with optional down conversion class
Phase Noise Capability Class	Built in phase noise style measurements class
Power Measurement Class	RF power of VCO output class
Tuning Voltage Sweep Class	Supported class
Marker Functions Class	Multi marker analysis class
Storage Class	Internal instrument state memory class
Export Classification Class	Commercial RF analyzer class
Weight Class	Benchtop analyzer weight class
Status Reporting	GPIB status byte class
Manufacturer Brand Path	HP Agilent Keysight legacy
Operating temperature	Class: Laboratory ambient class

4352B Specifications

PARAMETER	VALUE
HP Agilent 4352B VCO PLL Signal Analyzer	Overview
Dedicated VCO PLL measurement modes	GPIB remote programming
Technical Specifications	Instrument Type: VCO / PLL signal analyzer

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory ambient class
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Operating Temperature Class	Laboratory ambient class
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Frequency Coverage Class	VCO bands with optional down conversion class
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Weight Class	Benchtop analyzer weight class
Status Reporting	GPIB status byte class
Manufacturer Brand Path	HP Agilent Keysight legacy Notes From Agilent 4352B VCO/PLL Signal Analyzer programming and function reference documentation. Confirm frequency coverage with any 43521A down-converter configuration.

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

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Notes
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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

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