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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 4352S

HP Agilent 4352S VCO PLL Signal Test System The HP 4352S isaVCO/PLL signal test system built around the 4352B analyzer plusacontrolled low-noise signal generator, with 43521A extending coverage to 12.6 GHz. OEM 4352S/4352B tables list RF from 10 MHz to 3 GHz (12.6 GHz with 43521A), RF power -10 dBm to +20 dBm at 0.01 dB resolution, phase-noise offsets 100 Hz to 10 MHz, andaDC DUT supply 0 to 15.5 V at 50 mA max with 1 mV resolution and plus/minus (0.2 percent + 2 mV) accuracy. Carrier-lock multi-mode PLL measures 801 points from 100 Hz to 10 MHz in 7.4 seconds per sweep. Frequency transient resolution is 50 Hz and 12.5 us. The HP 4352S isaVCO/PLL signal test system built around the 4352B analyzer plusacontrolled low-noise signal generator, with 43521A extending coverage to 12.6 GHz. OEM 4352S/4352B tables list RF from 10 MHz to 3 GHz (12.6 GHz with 43521A), RF power -10 dBm to +20 dBm at 0.01 dB resolution, phase-noise offsets 100 Hz to 10 MHz, andaDC DUT supply 0 to 15.5 V at 50 mA max with 1 mV resolution and plus/minus (0.2 percent + 2 mV) accuracy. Carrier-lock multi-mode PLL measures 801 points from 100 Hz to 10 MHz in 7.4 seconds per sweep. Frequency transient resolution is 50 Hz and 12.5 us. VCO and PLL characterization for RF wireless local oscillators in lab and production.



MODEL

**Agilent / Keysight
4352S**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4352S

LISTING

<https://aumictechlabs.com/products/4352s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 4352S is a specialized test system for characterizing Voltage-Controlled Oscillators (VCOs) and Phase-Locked Loops (PLLs) in RF wireless communication applications. Operating in Signal Analyzer or VCO Tester modes, it delivers phase noise measurements from 100 Hz to 10 MHz offset with typical performance of -90 dBc/Hz at 100 Hz, -137 dBc/Hz at 10 kHz, and -157 dBc/Hz at 1 MHz. The system executes complete phase noise sweeps across 801 points in 7.4 seconds using carrier lock multi-mode PLL technology for automatic carrier acquisition.

Technical Specifications

Frequency Coverage Standard configuration: 10 MHz to 3 GHz With Agilent 43521A downconverter: 10 MHz to 12.6 GHz

Spectrum measurement span: 10 MHz maximum

Phase Noise Offset range: 100 Hz to 10 MHz

Measurement speed: 7.4 seconds per 801-point sweep

Employs carrier lock multi-mode PLL technology

RF Power Measurement Standard range: -10 dBm to $+20$ dBm With 43521A (2.4 GHz to 12.6 GHz): -20 dBm to $+20$ dBm

Resolution: 0.01 dB

Frequency Measurement Resolution: 1 kHz

Accuracy: $\pm(\text{measurement range} \times 0.1\% + \text{external time base accuracy})$

Frequency Transient Analysis Resolution: 50 Hz minimum

Sampling interval: 12.5 μ seconds

Evaluates PLL lock-up time and VCO post-tuning drift

Additional Measurements

FM Deviation: 0 to 200 kHz

DC Power Current: 0 to 50 mA

Source Characteristics

DC Power Supply Output voltage: 0 to $+15.5$ V @ 50 mA max

Resolution: 1 mV

Accuracy: $\pm(0.2\% + 2 \text{ mV})$

DC Control Voltage Standard range: 0 to 20 V @ 20 mA max Option 001 range: -15 to 35 V

Resolution: 100 μ V

1 kHz Signal Source Output range: 0 to 1 Vrms

Resolution: 1 mVrms

Typical Applications Local oscillator design verification; VCO frequency stability and noise characterization; PLL transient response and lock-up time evaluation; spurious and harmonic detection; frequency drift assessment during thermal and operational transients.

Compatibility & Integration The 4352S integrates the 4352B VCO/PLL Signal Analyzer with a compatible low-noise signal generator controlled via GPIB. Optional Agilent 43521A downconverter extends operating range to 12.6 GHz.

Discontinuation Notice: Product and associated accessories discontinued November 1, 2004; active support ended November 1, 2009.

4352S Characteristics / Specifications

PARAMETER	VALUE
Model	4352S
Instrument Type	VCO/PLL signal test system
Analyzer Module	4352B VCO/PLL Signal Analyzer
Downconverter	43521A to 12.6 GHz
Frequency Range	10 MHz to 3 GHz (12.6 GHz maximum with 43521A)
Frequency Resolution	1 kHz
Rf Power Range	-10 dBm to +20 dBm (-20 dBm to +20 dBm with 43521A)
Rf Power Resolution	0.01 dB
Phase Noise Offset	100 Hz to 10 MHz
Phase Noise Typical	-157 dBc/Hz at 1 MHz offset typical
Sweep Points	801 measurement points from 100 Hz to 10 MHz in 7.4 seconds per sweep
Transient Frequency Resolution	50 Hz minimum
Transient Time Resolution	12.5 us
Dc Power Voltage	0 to 15.5 V, 50 mA maximum
Dc Power Resolution	1 mV
Dc Power Accuracy	plus/minus (0.2 percent + 2 mV)
Dc Control Voltage	0 to 20 V, 20 mA maximum
Fm Deviation Ranges	2 kHz, 20 kHz, 200 kHz
Display	9 inch color LCD
Power Requirements	90 V to 132 V or 198 V to 264 V, 47 Hz to 63 Hz, 300 VA maximum
Size	425 mmWx 235 mmHx 553 mmDWeight Typical: 21.5 kg
Rf Connector	N female
Operating Temperature	10 C to 40 C
Humidity	15 percent to 80 percent RH
Manufacturer	HP Agilent Keysight

PARAMETER	VALUE
Literature	Agilent 4352S / 4352B VCO/PLL product overview

General Specifications & Supplementary Characteristics

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Literature	Agilent 4352S / 4352B VCO/PLL product overview Notes From Agilent 4352S/4352B VCO/PLL product-overview tables (frequency, RF power, DC sources, phase-noise sweep, transients, size/power). 1 kHz modulation source amplitude and FM residual are on the 4352B specification summary pages.

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	
Technical Specifications	
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Notes
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transients, size/power). 1 kHz modulation source amplitude and FM residual are on the 4352B specification summary pages.

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.