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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U9361F

Agilent Keysight U9361F RCal Receiver Calibrator 10 MHz to 50 GHz The Keysight U9361F RCal isapalm-sized USB-powered receiver calibrator that corrects absolute power, magnitude flatness, and phase flatness of signal analyzer setups up to 50 GHz. OEM technical overview 3120-1426 lists CW frequency 0.01 to 50 GHz, 1 Hz resolution, BPSK comb modulation, and factory calibration data stored in the module. Moving the analyzer reference plane to the DUT, correcting cable loss at millimeter-wave, and wideband IF flatness corrections up to 5 GHz IF bandwidth. The Keysight U9361F RCal isapalm-sized USB-powered receiver calibrator that corrects absolute power, magnitude flatness, and phase flatness of signal analyzer setups up to 50 GHz. OEM technical overview 3120-1426 lists CW frequency 0.01 to 50 GHz, 1 Hz resolution, BPSK comb modulation, and factory calibration data stored in the module. Moving the analyzer reference plane to the DUT, correcting cable loss at millimeter-wave, and wideband IF flatness corrections up to 5 GHz IF bandwidth. USB 3.0 powered and controlled palm-size module



MODEL

**Agilent / Keysight
U9361F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U9361F

LISTING

<https://aumictechlabs.com/products/u9361f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U9361F RCal receiver calibrator is a palm-sized module that extends measurement accuracy by relocating the reference plane to the device under test output. It corrects systematic errors including signal path losses and frequency response across 10 MHz to 50 GHz, enabling

precise characterization of transmitters and transfer of absolute power accuracy. The U9361F generates IF flatness corrections for both magnitude and phase using tunable BPSK comb modulation, improving receiver test system accuracy by an order of magnitude. The module operates via USB 3.0 interface with ± 10 ppm initial calibration accuracy and $< \pm 1$ ppm/year aging rate. Factory-calibrated with connector-specific standards, it delivers ultra-stable, repeatable corrections for complex magnitude and phase response. Integration with X-Series Signal Analyzers (N9020B, N9021B, N9030B, N9032B, N9040B, N9041B, N9042B) requires software revision A.27.05 or higher, with A.29.01 or higher recommended, plus the U9361Y_RCL license. Technical Specifications Frequency Range: 10 MHz to 50 GHz IF Bandwidth: Up to 5 GHz Connector Type: 2.4 mm male output Power Supply: USB 3.0, +5 V, <900 mA Calibration Accuracy: ± 10 ppm (nominal, initial) Aging Rate: $< \pm 1$ ppm/year (nominal) Physical Form: Compact, palm-size Key Features System path loss and frequency response correction Absolute power accuracy transfer to remote measurement plane Magnitude and phase flatness corrections Tunable BPSK comb modulation for dual-channel correction Ultra-stable, factory-calibrated precision Order-of-magnitude improvement in receiver test system accuracy USB-powered and USB-controlled operation Typical Applications Radar system signal integrity validation Satellite communication receiver characterization Advanced wireless transmitter power measurements High-accuracy IF flatness and phase correction Compatibility & Integration Designed for X-Series Signal Analyzers. Requires software revision A.27.05 minimum (A.29.01 or higher recommended) and U9361Y_RCL license. For N9020B operation, option DP2, MPB, or B40 required. Two licenses included; upgrade options available.

U9361F Characteristics / Specifications

PARAMETER	VALUE
Model	U9361F
Instrument Type	RCal receiver calibrator
CW Frequency Range	0.01 to 50 GHz
CW Frequency Resolution Nominal	1 Hz
Internal Timebase Initial Accuracy Nominal	plus or minus 10 ppm
Aging Rate Nominal	less than plus or minus 1 ppm per year
External Reference Frequency	10 MHz
External Reference Lock Range Nominal	plus or minus 2 ppm
External Reference Amplitude Nominal	minus 5 to plus 10 dBm
External Reference Impedance Nominal	50 Ohm
Output Power 0.01 to 1.875 GHz Nominal	greater than minus 10 dBm
Output Power 1.875 to 15 GHz Nominal	greater than minus 8 dBm
Output Power 15 to 26.5 GHz Nominal	greater than minus 9 dBm
Output Power 26.5 to 50 GHz Nominal	greater than minus 9.5 dBm
CW Power Accuracy 0.01 to 26.5 GHz Nominal	plus or minus 0.15 dB
CW Power Accuracy 26.5 to 50 GHz Nominal	plus or minus 0.25 dB
Phase Noise Nominal	minus 105 dBc/Hz at 10 GHz 100 kHz offset
Modulation Type	BPSK
Modulation Frequency Range	100 kHz to 100 MHz
Comb Tone Spacing	2 times modulation frequency
USB Type	USB 3.0
USB Voltage	plus 5 V
USB Current	less than 900 mA
Net Weight	0.34 kg

PARAMETER	VALUE
Dimensions Female	129.1 mmLby 78.3 mmWby 37.0 mmHCalibration Cycle Recommended: 1 year

U9361F Specifications

PARAMETER	VALUE
Key Features	USB 3.0 powered and controlled palm-size module
Tunable BPSK comb for magnitude and phase corrections	Internal or external 10 MHz frequency reference
Factory precision calibration data onboard	CW source and comb generator calibrator control modes
Technical Specifications	Model: U9361F

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	
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Notes

Numeric rows from Keysight U9361 RCal Receiver Calibrator technical overview 3120-1426.EN for U9361F. Values marked nominal are OEM nominal characteristics.

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

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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.