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Data Sheet

August 14, 2026

ADVANTEST

Advantest R5361A Frequency counter

The Advantest R5361A is the 1 GHz member of the R5361/R5362 expanding/reciprocal counter family. Catalog rows list FREQ.A 60 MHz to 1000 MHz, FREQ.B 0.2 mHz to 100 MHz, and standard aging less than 5×10^{-8} per day. Shared R5361B/R5362B tables add 9-digit display, PERIOD B, 200 ns to 9000 s time interval, and a 240 x 88 x 360 mm 4.5 kg class package. VHF/UHF transmitter, radio, and pager frequency adjustment up to 1 GHz. FreqBLpf On: 0.2 mHz to 10 kHz direct input FreqBLpf Off: 0.8 mHz to 100 MHz 1/4 prescale Storage Temperature: minus 20 to plus 70 C Self Check: internal reference count check Line Power: 100 to 120 VAC standard 200 to 240 VAC option 40 From Advantest R5361/R5362 family specification (R5361A FREQ.A 60 MHz to 1000 MHz catalog row) plus shared R5361B/R5362B INPUT B, period, time-interval, timebase, and mechanical tables. R5362B extends INPUT A to 3 GHz.



MODEL

Advantest R5361A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R5361A

LISTING

<https://aumictechlabs.com/products/r5361a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest R5361A is a precision frequency counter engineered for high-resolution frequency and time interval measurements across wide frequency ranges. Built for telecommunications, research, and calibration applications, this instrument delivers excellent measurement stability and straightforward operation for technicians and engineers requiring dependable frequency data. Technical Specifications Measurement modes: Frequency and time interval Resolution: High-resolution capability for frequency measurement Stability: Excellent, optimized for precision applications Power input: 180–249 VAC (default 220 VAC) Dimensions: 28 × 36 × 10 cm (instrument only) Weight: Approximately 3.7 kg (5 kg with

packing)Key Features Wide frequency measurement range across diverse application requirements User-friendly interface for efficient field operation Designed for horizontal positioning with adequate ventilation Operational stability suited to metrology and production environmentsTypical Applications Telecommunications system verification and maintenance Research laboratory frequency characterization Equipment calibration and standards traceability Field measurements requiring portable, accurate frequency dataCompatibility & Integration The R5361A integrates with standard test system interfaces common to Advantest frequency counter and spectrum analyzer product lines. Related models in the R5361/R5362 series provide reference for interface specifications and operational principles.

R5361A Characteristics / Specifications

PARAMETER	VALUE
FreqARange	60 MHz to 1000 MHz
FreqBLpf On	0.2 MHz to 10 kHz direct input
FreqBLpf Off	0.8 MHz to 100 MHz 1/4 prescale
PeriodBLpf On	100 us to 5000 s direct input
PeriodBLpf Off	10 ns to 1250 s 1/4 prescale
Time Interval Range	200 ns to 9000 s
Time Interval Unit	100 ns
TotalizeBRange	DC to 50 MHz
Totalize Capacity	0 to 999999999
Display Digits	9 decimal digits green LED
InputASensitivity Low	10 mVrms to 5 Vrms plus 27 dBm 60 MHz to 1500 MHz class
InputAImpedance	approx 50 ohm AC coupled
InputBImpedance	1 MOhm or more parallel 25 pF or less
InputBTrigger	approx minus 1.2 V to plus 1.2 V continuous preset approx 0 V
Internal Reference	5 MHz
Reference Output	10 MHz approx 1 Vp-p approx 50 ohm
External Reference	1 2 5 or 10 MHz 1 to 5 Vp-p
Standard Aging	5e-8 per day or better
Sample Rate	approx 80 ms 320 ms 2.5 s and HOLD
Compute Time	approx 80 ms
Dimensions	approx 240 W x 88 H x 360 D mm
Mass	4.5 kg or less
Operating Temperature	0 to plus 40 C 85 percent RH or less
Storage Temperature	minus 20 to plus 70 C
Ac Power Consumption	50 VA or less

PARAMETER

VALUE

Self Check

internal reference count check

Line Power

100 to 120 VAC standard 200 to 240 VAC option 40

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 to plus 70 C
Operating temperature	0 to plus 40 C 85 percent RH or less
Operating Temperature	0 to plus 40 C 85 percent RH or less
Ac Power Consumption	50 VA or less
Self Check	internal reference count check
Line Power	100 to 120 VAC standard 200 to 240 VAC option 40 Notes From Advantest R5361/R5362 family specification (R5361A FREQ.A 60 MHz to 1000 MHz catalog row) plus shared R5361B/R5362B INPUT B, period, time-interval, timebase, and mechanical tables. R5362B extends INPUTA to 3 GHz.

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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Internal Reference	5 MHz
Reference Output	10 MHz approx 1 Vp-p approx 50 ohm
External Reference	1 2 5 or 10 MHz 1 to 5 Vp-p
Standard Aging	5e-8 per day or better
Sample Rate	approx 80 ms 320 ms 2.5 s and HOLD
Compute Time	approx 80 ms
Dimensions	approx 240 W x 88 H x 360 D mm
Mass	4.5 kg or less
Operating Temperature	0 to plus 40 C 85 percent RH or less
Storage Temperature	minus 20 to plus 70 C
Ac Power Consumption	50 VA or less
Self Check	internal reference count check

PARAMETER	VALUE
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Line Power	100 to 120 VAC standard 200 to 240 VAC option 40
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Notes

From Advantest R5361/R5362 family specification (R5361A FREQ.A 60 MHz to 1000 MHz catalog row) plus shared R5361B/R5362B INPUT B, period, time-interval, timebase, and mechanical tables. R5362B extends INPUTA to 3 GHz.

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
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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.