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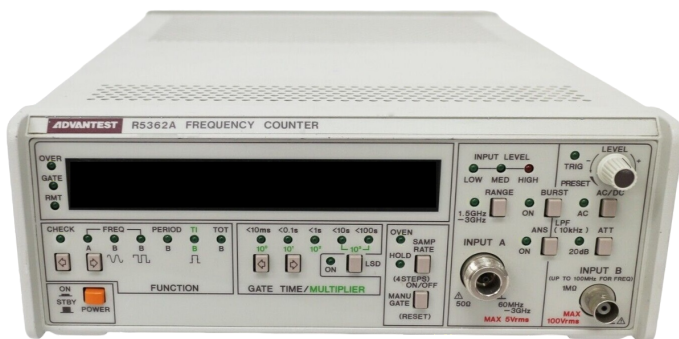
Data Sheet

August 14, 2026

ADVANTEST

Advantest R5362B Frequency counter

The Advantest R5362B is a 9-digit expanding/reciprocal frequency counter for 60 MHz to 3 GHz on INPUT A and 0.2 mHz to 100 MHz on INPUT B. The OEM R5362B specification lists 10 mVrms sensitivity to 1.5 GHz, 5 MHz internal reference, 10 MHz reference output, and a 240 × 88 × 360 mm package of 4.5 kg or less. Adjustment and maintenance of mobile telephones, personal radios, MCA, pagers, and other VHF/UHF transmitters. Automatic 20 dB attenuator on INPUT A. Noise suppressor and burst measurement. Freq. Lpf On: 0.2 mHz to 10 kHz direct input. Dimensions: approx 240 W x 88 H x 360 D mm. Operating Temperature: 0 to plus 40 C. 85 percent RH or less. Storage Temperature: minus 20 to plus 70 C. From Advantest R5362B electronic-counter specification (FREQ.A/FREQ.B, INPUT A/B, timebase options 20 to 23, mechanical). Option 23 aging is 5e-10 per day.



MODEL

Advantest R5362B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R5362B

LISTING

<https://aumictechlabs.com/products/r5362b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R5362B is a dual-channel frequency counter engineered for precise frequency, period, and time interval measurements across telecommunications, electronics manufacturing, and R&D environments. Channel 1 covers 60 mHz to 3 GHz with 10 mV sensitivity and 50 Ω input impedance; Channel 2 extends from 200 Hz to 100 MHz with 1 M Ω input impedance. Both channels accept 10 mV signals with AC coupling. The instrument delivers 9-digit resolution at 1-second gate time and completes measurements in 0.08 s cycles. Technical Specifications

Frequency Measurement Channel 1: 60 mHz to 3 GHz Channel 2: 200 Hz to 100 MHz General counter range: 2 MHz to 3 GHz Sensitivity (both channels): 10 mV Input impedance: Channel 1 50 Ω , Channel 2 1 M Ω Maximum input voltage (Channel 1): 3 V Input attenuation (Channel 1): $\times 1$, $\times 20$ Auto-attenuator range: 10 mVrms to 5 Vrms Time Domain & Totalize Period measurement: 10 ns to 5000 s Positive pulse width: 200 ns to 9000 s Totalize function: DC to 50 MHz Performance Metrics Display: 9-digit with 1-second gate Measurement throughput: 0.08 s Time base stability: 0.0000002 /yr External reference: 10 MHz Measurement method: Expanding/reciprocal system Noise reduction: ANS circuit with automatic sensitivity level controlKey Features Dual-channel architecture with independent frequency ranges AC-coupled inputs on both channels Channel 1 provides selectable $\times 1$ or $\times 20$ attenuation Proprietary Advantest counter LSI for expanded measurement capability Integrated cooling fan for sustained operationTypical Applications Frequency validation in RF and microwave test; period and pulse-width characterization; production-line pass/fail screening with optional TR1644 calculation unit.Compatibility & Integration Optional interface units enable data output: R13001B (BCD and D/A), R13002B (GPIB and D/A). GPIB interface functions available for remote control and automated test sequences.

R5362B Characteristics / Specifications

PARAMETER	VALUE
FreqALow Range	60 MHz to 1500 MHz
FreqAHigh Range	1500 MHz to 3000 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
InputASensitivity Mid	35 mVrms to 5 Vrms plus 27 dBm 1500 MHz to 2800 MHz
InputASensitivity High	50 mVrms to 5 Vrms plus 27 dBm 2800 MHz to 3000 MHz
InputAImpedance	approx 50 ohm AC coupled
InputBImpedance	1 MOhm or more parallel 25 pF or less
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 approx 500 ohm
Standard Aging	5e-8 per day 1e-7 per month 2e-7 per year
Sample Rate	approx 80 ms 320 ms 2.5 s and HOLD
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

PARAMETER

VALUE

Ac Power Consumption

50 VA or less

Dc Power Consumption

30 W or less

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
Dc Power Consumption	30 W or less Notes From Advantest R5362B electronic-counter specification (FREQ.A/FREQ.B, INPUT A/B, timebase options 20 to 23, mechanical). Option 23 aging is 5e-10 per day.

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 approx 500 ohm
Standard Aging	5e-8 per day 1e-7 per month 2e-7 per year
Sample Rate	approx 80 ms 320 ms 2.5 s and HOLD
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
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Dc Power Consumption	30 W or less
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Notes

From Advantest R5362B electronic-counter specification (FREQ.A/FREQ.B, INPUT A/B, timebase options 20 to 23, mechanical). Option 23 aging is 5e-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
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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.