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Data Sheet

August 14, 2026

ADVANTEST

Advantest R5373P Microwave frequency counter

Advantest R5373P Microwave Frequency Counter 10 mHz to 27 GHz The Advantest R5373K/P are catalog variants of the R5373 10 mHz to 27 GHz microwave frequency counter sharing the R5372/5373 OEM table with SMA Input B. 27 GHz carrier and pulse frequency measurements with factory K/P option sets. Frequency Range Overall: 10 mHz to 27 GHz



MODEL

Advantest R5373P

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R5373P

LISTING

<https://aumictechlabs.com/products/r5373p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R5373P is a microwave frequency counter designed for precision measurement across 10 mHz to 27 GHz. It employs digital TRAHET technology - combining transfer and heterodyne techniques - to deliver high sensitivity and exceptional resolution. The instrument measures frequency, period, time interval, pulse width (minimum 0.5 μ s), pulse repetition frequency (10 Hz to 5 MHz), carrier frequency of pulse-modulated signals, and FM deviation. Resolution reaches 1 Hz in 1 second for microwave frequencies, with decade-selectable settings from 0.1 Hz to 10 MHz and maximum resolution to 0.1 mHz in specific modes. Timebase stability is 1.5 ppm, with accuracy of ± 1 count plus time base accuracy. Measurement speed reaches 1000 measurements per second. Technical Specifications Frequency Range: 10 mHz to 27 GHz Measurement Modes: Frequency, period, time interval, pulse width, pulse repetition frequency, carrier frequency of modulated signals, FM deviation Resolution: 1 Hz (1 second gate, microwave), decade-selectable 0.1 Hz to 10 MHz, maximum 0.1 mHz Accuracy: ± 1 count $\pm$ time

base accuracy $\pm$ residual stability ($1/10 \times$ measurement frequency in GHz, rms) Timebase Stability: 1.5 ppm Sensitivity: -35 dBm to $+20$ dBm Measurement Speed: Up to 1000 measurements/second FM Range: ± 125 MHz (signals ≥ 1.4 GHz manual); ± 25 MHz (500 MHz–1.4 GHz manual); 10 MHz p-p (automatic, worst case) Power Supply: 100–240 V AC, 50/60 HzKey Features Pulse width capability: minimum 0.5 μ s D-A analog output (-4.995 V to $+4.995$ V ± 20 mV, 100 Ω max impedance) 10 MHz timebase output (1 Vp-p min, ~ 50 Ω) External frequency standard inputs: 1, 2, 2.5, 5, 10 MHz (1–10 Vp-p, ~ 500 Ω) Compact form factor: 213 mm (W) $\times$ 88 mm (H) $\times$ 355 mm (D), 2.8 kgTypical Applications Microwave communication systems, broadcast equipment, satellite communications, microwave and millimeter-wave circuit testing and calibration.Compatibility & Integration Interfaces: GPIB, RS-232C Connectors: 14-pin TTL output (Amphenol 57-40140 equivalent), AUX input/output, BNC (timebase and external standard), SMA or N-type main input

R5373P Characteristics / Specifications

PARAMETER	VALUE
Model	R5373
Frequency Range Overall	10 mHz to 27 GHz
InputAReciprocal Range	10 mHz to 10 MHz DC coupled 10 Hz to 10 MHz AC coupled
InputADirect Count Range	10 MHz to 550 MHz
InputBTRAHET Range	500 MHz to 27 GHz
Microwave Resolution	1 Hz in 1 s gate after digital TRAHET
InputAImpedance Low Band	approx 1 MOhm / 60 pF max
InputAImpedance 10 to 550 MHz	approx 50 ohm
InputBImpedance	approx 50 ohm
InputASensitivity	25 mVrms
InputBConnector	SMA withNadaptor
Measurement Accuracy	plus or minus 1 count plus or minus time base accuracy
Manual FM Tolerance Above 1.4 GHz	plus or minus 125 MHz or more
Manual FM Tolerance 500 MHz to 1.4 GHz	up to plus or minus 25 MHz
Auto FM Tolerance Worst Case	10 MHz p-p
Pulse Width Minimum Manual	0.5 us
Pulse Repetition	10 Hz to 5 MHz
Totalize Range Input A	DC to 10 MHz capacity 0 to 9999999999
Standard Aging	2e-8 per day 1e-7 per year
Time Base Output	10 MHz 1 Vp-p min approx 50 ohm BNC
External Standard Input	1 2 2.5 5 10 MHz 1 to 10 Vp-p approx 500 ohm BNC
Display	12 digit 7 segment green LED
Power Consumption	90 VA max
Dimensions	approx 255 W x 132 H x 420 D mm
Mass	10 kg max

PARAMETER	VALUE
Operating Temperature	0 to plus 40 C 85 percent RH max
GPIB	IEEE 488 1978 standard
Line Frequency	48 Hz to 66 Hz

General Specifications & Supplementary Characteristics

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GPIB	IEEE 488 1978 standard
Line Frequency	48 Hz to 66 Hz Notes From Advantest R5372/5373 catalog applied to R5373K/P suffixes.

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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Pulse Repetition	10 Hz to 5 MHz
Totalize Range Input A	DC to 10 MHz capacity 0 to 9999999999
Standard Aging	2e-8 per day 1e-7 per year

Option 21 Aging: 5e-9 per day
Option 22 Aging: 2e-9 per day
Option 23 Aging: 5e-10 per day

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

Aumictech

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<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.