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Data Sheet

August 15, 2026

ADVANTEST

Advantest R3752XH – Network analyzer

Advantest R3752XH Vector Network Analyzer 5 Hz to 500 MHz The Advantest R3752XH is a member of the R3752 series 500 MHz vector network analyzer family. OEM R3752 series literature rates 5 Hz to 500 MHz coverage, 115 dB dynamic range, 0.1 ms/point measurement at 10 kHz RBW, and source output from plus 21 dBm to -63 dBm on the R3752 series. Component and network characterization of filters amplifiers and passive devices in R&D and manufacturing through 500 MHz. High-speed 0.1 ms per point measurement at 10 kHz RBW The Advantest R3752XH is a member of the R3752 series 500 MHz vector network analyzer family. OEM R3752 series literature rates 5 Hz to 500 MHz coverage, 115 dB dynamic range, 0.1 ms/point measurement at 10 kHz RBW, and source output from plus 21 dBm to -63 dBm on the R3752 series. Component and network characterization of filters amplifiers and passive devices in R&D and manufacturing through 500 MHz. High-speed 0.1 ms per point measurement at 10 kHz RBW Program sweep with per-segment RBW level and attenuator



MODEL

**Advantest
R3752XH**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

R3752XH

LISTING

<https://aumictechlabs.com/products/r3752xh-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R3752XH is a network analyzer engineered for precise characterization of electronic components and networks across DC to microwave frequencies. It delivers simultaneous multi-parameter measurement with 16 independent channels and display windows,

supporting 2-port, 3-port, and 4-port device configurations. The instrument combines high measurement speed - 0.1 ms per point at 10 kHz resolution bandwidth - with 115 dB dynamic range, enabling rapid device qualification in R&D, manufacturing, and quality assurance environments.

Technical Specifications

Frequency Range: 5 Hz to 500 MHz

Measurement Channels: 16 independent channels

Display Windows: 16 simultaneous windows

Traces per Channel: 16 traces with concurrent display capability

Dynamic Range: 115 dB

Measurement Speed: 0.1 ms per point (10 kHz RBW)

S-Parameter Support: 2-port (S11, S21, S12, S22), 3-port, and 4-port configurations

Parameter Conversion: Impedance (Z) and admittance (Y) conversion available

Output Power (R3752 Series): +21 dBm to -63 dBm

Key Features

Multi-format display: rectangular coordinates, Smith Chart, and polar coordinates with marker readout in linear/logarithmic amplitude, phase, and complex notation

VSWR, group-delay, and complex impedance ($R + jX$, $G + jB$) measurement modes

Parallel measurement capability: simultaneous testing of two devices with 4-trace display

Flexible frequency segmentation with programmable resolution bandwidth per sweep segment

Input signal processing via dual-mixer heterodyne architecture (1st IF: 820 kHz, 2nd IF: 20 kHz)

Typical Applications

Component characterization and impedance profiling

Filter and transmission-line measurement

Reflection coefficient and VSWR analysis

Device qualification for RF/microwave circuits

Compatibility & Integration

The R3752XH architecture supports external signal processing and multi-port test configurations, enabling integration into automated test systems and manufacturing environments requiring high-throughput parametric analysis.

R3752XH Characteristics / Specifications

PARAMETER	VALUE
Model	R3752XH
Series	R3752
Instrument Type	Vector network analyzer
Frequency Range	5 Hz to 500 MHz
Dynamic Range	115 dB
Measurement Speed	0.1 ms per point at 10 kHz RBW
Source Frequency Resolution Family	0.1 Hz
Frequency Accuracy Family	0.002 percent
Output Power Range Series	plus 21 dBm to -63 dBm
Power Resolution Family	0.1 dB
Output Accuracy Family	0.5 dB
Output Impedance	50 Ohm
Receiver Frequency Range	5 Hz to 500 MHz
Receiver Channels Family Example	2 channels
Sweep Time Per Point	0.1 ms
Display Capability Series	multi-trace multi-window measurement displaysSParameter Support: reflection and transmission coefficients for two-port devices
Impedance Conversion	Z andYparameter conversion available on series literature
Group Delay Measurement	supported on series literature
Vswr Measurement	supported on series literature
First If Family	820 kHz on series architecture notes
Second If Family	20 kHz on series architecture notes
Level Sweep	semiconductor-switched high-speed level sweep on series literature
Disk Format Family	MS-DOS formatted disk on series literature

R3752XH Specifications

PARAMETER	VALUE
Applications	Component and network characterization of filters amplifiers and passive devices in R&D and manufacturing through 500 MHz.
Key Features	Wide dynamic range 115 dB
Technical Specifications	Model: R3752XH

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	
From Advantest R3752 series network analyzer specifications as published for R3752XH and sibling	

R3752EH/R3752CH/R3752B family members sharing the 5 Hz to 500 MHz platform. Model-letter suffixes denote configuration variants.

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