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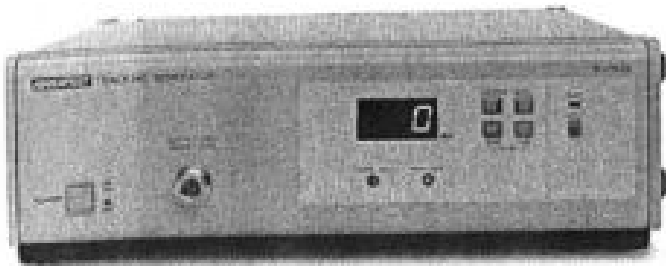
Data Sheet

August 15, 2026

ADVANTEST

Advantest TR4154 Tracking Generator, 100 kHz to 3.5 GHz

Advantest TR4154 Tracking Generator 100 kHz to 3.5 GHz The Advantest TR4154 is a tracking generator covering 100 kHz to 3.5 GHz for scalar response measurements with compatible Advantest spectrum analyzers. OEM tracking-generator documentation lists the swept source range for filter and component frequency-response tests. Scalar network measurements, filter alignment, and tracking-generator stimulus with Advantest spectrum analyzers. One hundred kilohertz to 3.5 GHz tracking source The Advantest TR4154 is a tracking generator covering 100 kHz to 3.5 GHz for scalar response measurements with compatible Advantest spectrum analyzers. OEM tracking-generator documentation lists the swept source range for filter and component frequency-response tests. Scalar network measurements, filter alignment, and tracking-generator stimulus with Advantest spectrum analyzers. One hundred kilohertz to 3.5 GHz tracking source Primary Use: Scalar response with spectrum analyzer



MODEL

Advantest TR4154

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

TR4154

LISTING

<https://aumictechlabs.com/products/tr4154-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest TR4154 Tracking Generator operates from 100 kHz to 3.5 GHz and functions as a specialized instrument for swept measurements in conjunction with Advantest spectrum analyzers. It generates a signal that precisely tracks the analyzer's frequency, enabling scalar

network analysis and frequency response characterization with wide dynamic range. The instrument's internal normalize function eliminates measurement errors introduced by the test setup, including cables and auxiliary devices, delivering more accurate results across device and system characterization applications.

Technical Specifications

Frequency Range: 100 kHz to 3.5 GHz
Dynamic Range: 80 dB on CRT display; approximately 110 dB achievable by adjusting reference level
Measurement Type: Scalar network analysis and frequency response measurements
Operating Temperature: 0°C to +40°C
Storage Temperature: -20°C to +70°C
Power: AC mains with user-selectable voltage settings (100 V, 120 V, 220 V, 240 V) via replaceable card

Key Features

- Tracks spectrum analyzer frequency with precision for synchronized swept measurements
- Internal normalize function corrects for system-induced measurement errors
- Modular power supply design accommodates global voltage standards
- Fuse protection with region-specific ratings matching selected voltage setting

Typical Applications

- Filter and amplifier frequency response characterization
- Component and device scalar network analysis
- Transmission and insertion loss measurements across microwave frequencies
- Test setup calibration and error correction

Compatibility & Integration

The TR4154 integrates with Advantest spectrum analyzers including the TR4135, R4131 Series, and R4136. Three dedicated connectors synchronize operation: SLOPE, 1st LO INPUT, and 2nd LO INPUT connect directly to corresponding analyzer ports. RF output connects to the analyzer input. GPIB connectivity enables remote control and data transfer. Power connection uses a 3-pin AC LINE connector with ground terminal; regional adapters may be required.

TR4154 Characteristics / Specifications

PARAMETER	VALUE
Model	TR4154
Instrument Type	Tracking generator
Manufacturer	Advantest
Frequency Range	100 kHz to 3.5 GHz
Primary Use	Scalar response with spectrum analyzer
Host Instruments Class	Compatible Advantest spectrum analyzers
Output Type	Tracking RF swept source
Chassis Form	Benchtop tracking generator
Brand Lineage	Advantest
Frequency Coverage Low	100 kHz
Frequency Coverage High	3.5 GHz
Measurement Role	Stimulus for transmission response
Control	Tracking locked to host analyzer sweep class
Documentation Scope	OEM Advantest TR4154 documentation
Operating Temperature Spec Class	Follow TR4154 sheet
Power Class	AC mains supply
Installed Options	Verify connectors and level options
Output Level Class	Per TR4154 level table
Flatness Class	Per TR4154 flatness table
Harmonics Class	Per TR4154 spectral purity table
Warmup Spec Class	Follow tracking drift warm-up guidance
Safety Class	Observe maximum reverse power ratings
Operating temperature	Spec Class: Follow TR4154 sheet

TR4154 Specifications

PARAMETER	VALUE
Advantest TR4154 Tracking Generator 100 kHz to 3.5 GHz	Overview
Applications	Scalar network measurements, filter alignment, and tracking-generator stimulus with Advantest spectrum analyzers.
Key Features	One hundred kilohertz to 3.5 GHz tracking source
Technical Specifications	Model: TR4154

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow TR4154 sheet
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Power Class	AC mains supply
Installed Options	Verify connectors and level options
Output Level Class	Per TR4154 level table
Flatness Class	Per TR4154 flatness table
Harmonics Class	Per TR4154 spectral purity table
Warmup Spec Class	Follow tracking drift warm-up guidance
Safety Class	Observe maximum reverse power ratings Notes From Advantest TR4154 tracking generator documentation (100 kHz to 3.5 GHz). Exact output level and flatness numbers are on the TR4154 sheet.

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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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.