ADVANTEST

# R3754B

The Advantest R3754B is a high-speed vector network analyzer operating in the 10 kHz to 150 MHz frequency range. Engineered for component production lines, it offers a sweep speed of 0.05 ms per point, a high dynamic range of 127 dB (typical), and flexible configuration options including up to three input channels and TDR analysis capabilities.

## SPECIFICATIONS

### General

| | |
|---|---|
| Interfaces | GPIB, Parallel I/O (OPT.01) |
| Display | Color TFT LCD |

### Physical

| | |
|---|---|
| Power Supply | 100 to 120 VAC / 220 to 240 VAC (automatic selection), 48 to 66 Hz, 200 VA or less |
| Operating Temperature | 5 to 40 °C °C |
| Dimensions (W×H×D) | 424 × 177 × 300 mm mm |
| Weight | 11 kg kg |

### Frequency & Port Characteristics

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|---|---|
| Frequency Range | 10 kHz to 150 MHz |
| Number of Input Channels | 1, 2, or 3 channels (OPT.10 for 2-channel input, OPT.11 for 3-channel input) |

### Receiver & Dynamic Range Performance

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|---|---|
| System Dynamic Range | 127 dB (typical) |

### Measurement Speed & Calibration

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|---|---|
| Measurement Speed per Point | 0.05 ms / point |

### Measurement Parameters & Software Options

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|---|---|
| Simultaneous Measurement Capability | Two-device simultaneous measurement with 2-channel 4-trace capability |
| Drive Level Dependency (DLD) Measurement | Supported (using Reactance Linear Approximation (RLA) method) |

### Source Characteristics

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|---|---|
| Frequency Resolution | 0.1 Hz |
| Output Power Range | -43 dBm to +15 dBm |
| Output Power Resolution | 0.1 dB |

### Environmental

| | |
|---|---|
| Operating Humidity Range | 85% RH or less (no condensation) |

## TECHNOLOGY

Vector Network Analysis

## APPLICATIONS

High-Speed RF Component Testing and Characterization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.