

ADVANTEST

R3267

The Advantest R3267 is a high-performance spectrum analyzer designed to meet the demanding requirements of mobile communications testing. Offering a frequency range of 20 Hz to 8.0 GHz, it provides excellent dynamic range, low phase noise, and an exceptionally fast trace update rate to simplify and automate complex high-frequency measurements.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232, Centronics, PS/2 Keyboard
Display	6.5-inch color TFT LCD

Physical

Power Supply	100 to 120 VAC / 220 to 240 VAC, 50/60 Hz, maximum power consumption 300 VA
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	424 mm × 177 mm × 450 mm mm
Weight	22 kg kg

Frequency Specifications

Frequency Range	100 Hz to 8.0 GHz
Frequency Span Range	0 Hz (zero span), 10 Hz to 8 GHz
Frequency Span Accuracy	±1% or better (typical ±0.2% for all spans)

Amplitude Specifications

Input Attenuator Range	0 to 75 dB
Input Attenuator Step	5 dB
1 dB Gain Compression Point	0 dBm (typical +3 dBm)
Maximum Safe Input Level	+30 dBm

Sweep and Trigger Specifications

Trace Update Rate	Up to 20 times/second
Minimum Zero-Span Sweep Time	1 μs

Resolution and Bandwidth

Resolution Bandwidth (RBW) Range	1 Hz to 10 MHz
Video Bandwidth (VBW) Range	1 Hz to 10 MHz

Dynamic Range and Distortion

Third-Order Intermodulation Distortion (TOI)	-90 dBc or less (2 GHz band)
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Inputs and Outputs

RF Input Impedance	50 ohms
RF Input Connector	N-type (female)

Performance

SSB Phase Noise	≤ -113 dBc/Hz @ 10 kHz offset (1 GHz carrier)
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Sweep

Sweep Time Range (Span > 0 Hz)	20 ms to 1000 s
Sweep Time Range (Zero-Span)	1 μ s to 1000 s

Frequency

Reference Frequency Stability (Aging Rate)	$\pm 2 \times 10^{-8}$ /day (standard); $\pm 5 \times 10^{-9}$ /day (with Option 21); $\pm 5 \times 10^{-10}$ /day (with Option 22)
Internal Reference Frequency	10 MHz
Frequency Bands (Tuning Bands)	Band 0: 100 Hz to 3.6 GHz; Band 1: 3.5 GHz to 8.0 GHz

Inputs & Outputs

Calibration Output Signal	20 MHz, -20 dBm
External Display Output	15-pin D-sub (VGA compatible)
Keyboard Connector	PS/2 (Mini-DIN)

Storage & Connectivity

PC Card Storage	PCMCIA Type II, 2 slots
Internal Floppy Disk Drive	3.5-inch (1.44 MB / 720 KB, MS-DOS format)

Amplitude Accuracy

Frequency Response Flatness	± 1.5 dB (100 Hz to 3.6 GHz), ± 2.5 dB (3.5 GHz to 8.0 GHz)
Reference Level Accuracy	± 0.3 dB (at -20 dBm)
Log Scale Fidelity	± 0.2 dB/10 dB, ± 0.85 dB/100 dB
RBW Switching Uncertainty	± 0.3 dB (at 300 kHz RBW reference)
Input Attenuator Switching Uncertainty	± 0.3 dB (at 100 MHz, 10 dB reference, 5 dB to 75 dB range)

RF Input Characteristics

RF Input VSWR	$< 1.5:1$ (100 Hz to 3.6 GHz, attenuator ≥ 10 dB), $< 2.0:1$ (3.6 GHz to 8 GHz, attenuator ≥ 10 dB)
Maximum DC Input Voltage	0 V DC

Options & Accessories

Option 61 Tracking Generator Frequency Range	100 kHz to 3.6 GHz
Option 62 Tracking Generator Frequency Range	100 kHz to 8 GHz
Option 61/62 Tracking Generator Output Level Range	0 dBm to -115 dBm (0.1 dB step)

Reference Frequency Options

Option 01 Reference Oscillator Stability	Option 21 Reference Oscillator Stability = $\pm 5 \times 10^{-9}$ / day, $\pm 1 \times 10^{-7}$ / year (aging rate)
Option 02 Reference Oscillator Stability	Option 22 Reference Oscillator Stability = $\pm 3 \times 10^{-10}$ / day, $\pm 5 \times 10^{-8}$ / year (aging rate)

Environmental

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity Range	≤ 85% RH (non-condensing)

Power

Maximum Power Consumption	300 VA
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Display

Display Resolution	640 × 480 pixels
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Performance Measurements

ACPR Dynamic Range (W-CDMA)	ACPR Dynamic Range (W-CDMA) = -68 dBc (at 5 MHz offset)
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TECHNOLOGY

Superheterodyne Spectrum Analysis

APPLICATIONS

Mobile Communications Testing, RF and Microwave Signal Analysis

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