

ADVANTEST

R3261C

The Advantest R3261C is a compact, high-performance synthesized spectrum analyzer covering a frequency range from 9 kHz to 2.6 GHz. Featuring a high-resolution synthesizer with 1 Hz tuning, a 1 Hz resolution internal frequency counter, and 1 dB typical total level accuracy, it is highly optimized for precise RF design, manufacturing, and testing applications.

SPECIFICATIONS

General

Interfaces	GPIB
Display	5.5-inch CRT
Warm-up Time	30 minutes

Physical

Power Supply	100 / 120 / 220 / 240 VAC (selectable), 50/60 Hz, ≤150 VA
Operating Temperature	0°C to +50°C °C
Dimensions (W×H×D)	300 mm x 177 mm x 460 mm mm
Weight	15 kg

Frequency

Frequency Range	9 kHz to 2.6 GHz
Tuning Resolution	1 Hz
Frequency Counter Resolution	1 Hz
Reference Frequency Aging Rate	+/-2 x 10 ⁻⁶ per year
Reference Frequency Temperature Stability	+/-5 x 10 ⁻⁶ (0°C to 50°C)
Frequency Span Range	1 kHz to 2.6 GHz, Zero Span
SSB Phase Noise	≤ -105 dBc/Hz @ 20 kHz offset
Residual FM	≤ 20 Hz p-p / 0.1 s (Span ≤ 200 kHz)

Amplitude

Maximum Safe RF Input Level	+25 dBm
Maximum DC Input Voltage	+/-25 V
Input Attenuation Range	0 to 50 dB in 10 dB steps

Bandwidth & Sweep

Resolution Bandwidth (RBW) Range	30 Hz to 1 MHz (1, 3 sequence)
Video Bandwidth (VBW) Range	1 Hz to 1 MHz (1, 3 sequence)
Sweep Time Range	50 ms to 1000 s

Inputs & Outputs

RF Input Connector Type	Type-N female
RF Input Impedance	50 Ohm
External Reference Input	10 MHz

Sweep

Trigger Modes	Free Run, Line, Single, Video, External
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Spurious Responses

Second Harmonic Distortion	<-70 dBc (mixer level -30 dBm, frequency >= 10 MHz)
Third-Order Intermodulation	<-70 dBc (mixer level -30 dBm, frequency >= 10 MHz, 50 kHz separation)
Residual Response	<-100 dBm (frequency >= 10 MHz, 0 dB input attenuation)
Image Response	<-70 dBc
Multiple Response	<-70 dBc

Amplitude Accuracy

Frequency Response Flatness	+/-1.5 dB (9 kHz to 2.6 GHz, 10 dB attenuation)
Calibration Output	30 MHz, -20 dBm +/- 0.3 dB

Data Storage

Internal Memory Capacity	Save/Recall of 10 panel settings and 10 trace waveforms
Memory Card Interface	JEIDA Ver. 4 memory card slot

Signal Detection & Sweep

Detection Modes	Normal, Peak, Sample
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System Functions

Direct Plotting	Supported (GPIB direct output to HP-GL plotters)
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TECHNOLOGY

Synthesized Spectrum Analyzer

APPLICATIONS

RF 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.