

ROHDE & SCHWARZ

FSEB20

The Rohde & Schwarz FSEB20 is a high-performance spectrum analyzer from the legacy FSE Series, covering a frequency range from 20 Hz to 7 GHz. Designed for demanding signal analysis, it provides exceptional dynamic range, fast sweep times, and versatile demodulation capabilities.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE 488.2), RS-232-C, Parallel (LPT), User Port
Display	9.5-inch Color TFT LCD, 640 × 480 pixels
Removable Storage	3.5" Floppy Disk Drive (1.44 MB)

Physical

Power Supply	100 V to 240 V AC, 50 Hz to 400 Hz
Operating Temperature	+5 °C to +45 °C °C
Dimensions (W×H×D)	435 mm × 236 mm × 573 mm mm
Weight	26 kg kg

Frequency and Amplitude Performance

Frequency Range	9 kHz to 7 GHz
Attenuator Range	0 dB to 70 dB
Attenuator Step Size	10 dB

Bandwidth and Sweep Characteristics

Resolution Bandwidth (RBW) Range	10 Hz to 10 MHz
Resolution Bandwidth Steps	1, 2, 3, 5
Minimum Video Bandwidth	1 Hz
Maximum Video Bandwidth	10 MHz
Video Bandwidth Steps	1, 2, 3, 5
Minimum Sweep Time	1 μs
Maximum Sweep Time	16000 s

Measurement Capabilities and Signal Processing

Demodulation Formats	AM, FM
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Inputs, Outputs and Interfaces

RF Input Connector Type	N-type (female)
RF Input Impedance	50 Ω
External Reference Input Frequency	10 MHz

Inputs & Outputs

Maximum Input RF Power	+30 dBm (1 W) with ≥10 dB attenuation
Maximum Input DC Voltage	0 V

Options

Tracking Generator Option FSE-B9 Frequency Range	9 kHz to 1.5 GHz
Tracking Generator Option FSE-B11 Frequency Range	9 kHz to 7 GHz
OCXO Reference Oscillator Option	FSE-B4
FFT Filters Option	FSE-B5 (1 Hz to 1 kHz)
Vector Signal Analysis Option	FSE-B7

Performance

Third-Order Intercept (TOI)	> +15 dBm (typ. +20 dBm)
1 dB Compression Point	+10 dBm
Detector Types	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average

Environmental

Storage Temperature Range	-40 °C to +70 °C
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Frequency

Frequency Span Range	0 Hz, 100 Hz to 7 GHz
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Amplitude

Reference Level Range	-130 dBm to +30 dBm
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TECHNOLOGY

Superheterodyne Spectrum & Signal Analysis

APPLICATIONS

RF and Microwave signal analysis, transmitter testing, and spectral measurements

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