

ROHDE & SCHWARZ

FSQ26

The Rohde & Schwarz FSQ26 is a high-performance vector signal and spectrum analyzer that seamlessly combines up to 120 MHz of demodulation bandwidth with the impressive dynamic range of a top-tier spectrum analyzer. Operating across a frequency range of 20 Hz to 26.5 GHz, the FSQ26 is highly optimized for complex digital demodulation and vector signal analysis, offering expansive I/Q memory and extensive firmware support for wireless standards.

SPECIFICATIONS

General

Interfaces	GPIB, LAN, USB, RS-232
Display	8.4-inch color SVGA TFT LCD

Physical

Power Supply	100 V to 240 V AC, 50 Hz to 400 Hz
Operating Temperature	+5 to +40 °C
Dimensions (W×H×D)	435 × 192 × 460 mm
Weight	18.4 kg kg

Frequency Characteristics

Frequency Range	20 Hz to 26.5 GHz
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Sweep Characteristics

Minimum Sweep Time (Frequency Domain)	2.5 ms
Minimum Sweep Time (Time Domain / Zero Span)	1 μs

Amplitude and Level Characteristics

1 dB Compression Point	+13 dBm (typ.)
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Dynamic Range and Phase Noise

Third-Order Intercept (TOI)	+25 dBm (typ.)
Phase Noise (10 kHz offset)	-123 dBc/Hz (typ. @ CF 640 MHz)
Phase Noise (10 MHz offset)	-160 dBc/Hz (typ. @ CF 640 MHz)
Adjacent Channel Leakage Ratio (3GPP ACLR)	77 dB (84 dB with noise correction)
Adjacent Channel Leakage Ratio (4-carrier scenario)	77 dB (with noise correction)

Amplitude Accuracy

Total Measurement Uncertainty	0.3 dB (up to 3.6 GHz)
Display Nonlinearity (Linearity Error)	< 0.1 dB (down to -70 dB)

I/Q Analyzer and Digitizer

I/Q Demodulation Bandwidth	28 MHz (120 MHz optional)
I/Q Memory Depth	16 Msample (I and Q)

Measurement Speed

Remote Measurement Speed	Up to 70 measurements/s (via GPIB)
Manual Measurement Speed	Up to 80 measurements/s (screen update)

Applications and Firmware

Supported Wireless Standards	Bluetooth, GSM/EDGE, 3GPP WCDMA, HSDPA, TD-SCDMA, CDMA2000, 1xEV-DV, 1xEV-DO, WLAN 802.11a/b/g/j
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Bandwidth

Resolution Bandwidth (RBW)	10 Hz to 50 MHz
Video Bandwidth (VBW)	1 Hz to 30 MHz

RF Input

Input Impedance	50 Ω
RF Attenuation Range	0 to 75 dB (5 dB steps)
Maximum Input Power (CW)	+30 dBm (with RF attenuation $\geq$ 10 dB)
Maximum Input DC Voltage	0 V (DC coupled)

Signal Acquisition

Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average, Quasi-Peak
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Frequency

Reference Oscillator Aging	1×10^{-6} / year (standard)
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Data Acquisition & Processing

Sweep Points	155 to 30001
Trace Functions	Clear/Write, Max Hold, Min Hold, Average, View

Trigger

Trigger Sources	Free Run, Video, External, IF Power
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Inputs & Outputs

External Reference Input Frequency	1 MHz to 20 MHz (in 1 Hz steps)
Reference Output Frequency	10 MHz

General Specifications

Calibration Interval	1 year
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Environmental

Storage Temperature Range	-40 $^{\circ}$ C to +70 $^{\circ}$ C
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TECHNOLOGY

Vector Signal Analyzer / Spectrum Analyzer

APPLICATIONS

Digital Demodulation, General Purpose Vector Signal Analysis, Wireless Standard Analysis (Bluetooth, GSM/EDGE, 3GPP WCDMA, CDMA2000, WLAN)

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