

ROHDE & SCHWARZ

FSUP26

The Rohde & Schwarz FSUP26 is a premium signal source analyzer and high-end spectrum analyzer with a frequency range up to 26.5 GHz. Designed for complete characterization of oscillators and high-performance phase noise measurements, it combines the capabilities of a phase noise tester, transient recorder, and a spectrum analyzer in a single cabinet. It features dual ultra-low noise DC ports for tuning and supply voltages.

SPECIFICATIONS

General

Display	21 cm (8.4") color TFT LCD, SVGA (800 × 600)
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Physical

Operating Temperature	5 °C to 40 °C °C
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Frequency & Amplitude Ranges

Carrier Frequency Range (Spectrum Analyzer)	20 Hz to 26.5 GHz
Carrier Frequency Range (Phase Noise Test)	1 MHz to 26.5 GHz
Frequency Extension with External Mixers	up to 110 GHz (with R&S FS-Zxx series)
RF Input Impedance	50 Ω
Max RF Input Level	+30 dBm (1 W)
Max Input DC Voltage	0 V (DC coupled), 50 V (AC coupled)
Internal Reference Frequency	10 MHz

Phase Noise Performance

Cross-Correlation Factor Improvement	up to 20 dB (with Option FSUP-B60/B61)
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Connectivity & System

Internal Operating System	Windows XP Embedded
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Physical & Environmental

AC Supply Voltage Range	100 V to 240 V AC
AC Supply Frequency Range	50 Hz to 60 Hz / 400 Hz

Display

Display Size	8.4 in
Display Resolution	800 x 600 pixels
Display Type	Color TFT LCD

Interfaces

GPIO Interface	SCPI-compatible, IEEE 488.2 (IEC 625-2)
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Frequency Sweep (Spectrum Analyzer Mode)

Sweep Time Range (Span ≥ 10 Hz)	2.5 ms to 16000 s
Sweep Time Range (Zero Span)	1 μs to 16000 s

Signal Processing

Spectrum Analyzer Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average, Quasi-Peak
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Environmental

Warm-up Time	30 min
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Frequency

Frequency Resolution	0.01 Hz
Frequency Span Range	0 Hz, 10 Hz to 26.5 GHz
Resolution Bandwidth (FFT) Range	1 Hz to 30 kHz
Video Bandwidth (VBW) Range	1 Hz to 10 MHz

Amplitude

RF Attenuation Range	0 dB to 75 dB (5 dB steps)
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Interfaces & Connectivity

Noise Source Control Port	BNC female, 28 V (switchable)
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TECHNOLOGY

Signal Source & Spectrum Analysis

APPLICATIONS

Phase Noise Measurement, VCO Characterization, Spectrum 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.