



R&S® FPL1-B9 INTERNAL GENERATOR

More analysis possibilities with internal signal generator



Scalar network analysis made simple

Equipped with the R&S®FPL1-B9 option, the R&S®FPL1000 offers an internal CW source and a tracking generator for quick and easy measurements of frequency response, filters and attenuation. The n-dB down marker determines the 3 dB bandwidth of a bandpass filter at the press of a button. Precision is enhanced by through, short and open normalization methods.

The perfect choice for

Research, education, service and maintenance

General purpose signal analysis and demodulation

Fast and easy to integrate for automated tests

Basic function test and EMI debugging in R&D

Models	
FPL1-B9 (1323.1925.03) for FPL1003	5 kHz to 3 GHz
FPL1-B9 (1323.1925.07) for FPL1007	5 kHz to 7.5 GHz

Key specifications	
Frequency	5 kHz to 7.5 GHz
Frequency setting resolution	0.01 Hz
Level Setting Range	-60 dBm to 0 dBm
Level setting resolution	0.1 dB
Absolute Level Uncertainty	< 0.5 dB
Phase noise at 1 GHz (0 dBm, 1 MHz offset)	-130 dBc/Hz (typ.)
Harmonics (100 kHz ≤ f ≤ 7.5 GHz)	< -30 dBc
Non-harmonic spurious (0 dBm)	-45 dBc (typ.)

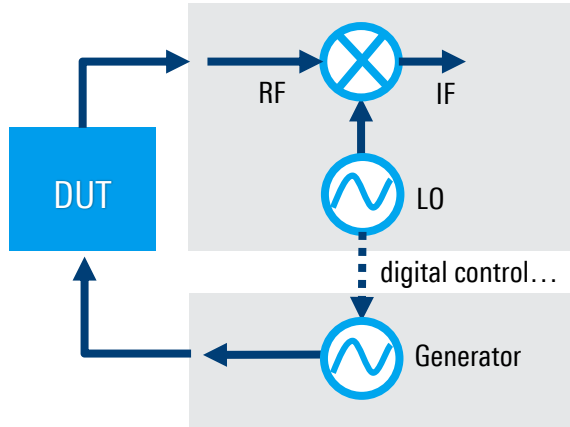
Your benefit	Features
Modes	<ul style="list-style-type: none"> ▶ Independent CW source ▶ Tracking Generator (TG) ▶ Power Sweep
Spectral purity	High dynamic range for your measurements
Characterization of your circuits	Powerful TG for gain, frequency response and return loss measurements
More space on your test bench	Signal generator for general purpose applications without spending additional space on your desk



For more information:

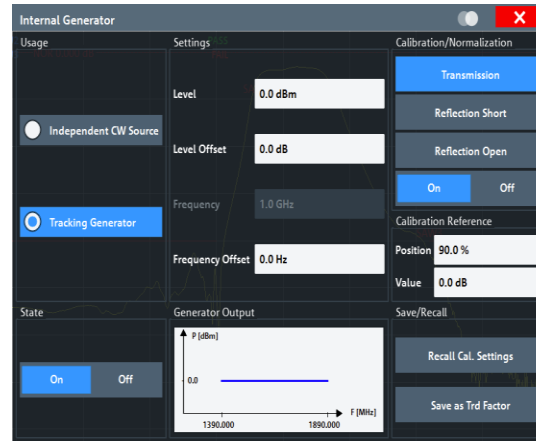
<https://www.rohde-schwarz.com/product/FPL1000>

Block diagram of TG mode



Completely separated hardware units and digital control guarantee good isolation, less crosstalk and the option to use TG frequency offset

All-in-one dialogue for easy operation



Clear menus allow quick configuration of usage, settings, calibration and the state of the internal generator

Filter qualification with R&S®FPL1-B9

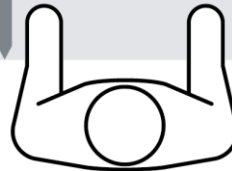


For easy filter qualification, simply define your limit lines for filter characterization, use the n-dB down function to determine the 3 dB points and save the result as a transducer factor

Comparable analyzer
426 mm x 368 mm
15 kg

R&S®FPL1000
spectrum analyzer
422 mm x 235 mm
6 kg

40% more space



The R&S®FPL1000 with R&S®FPL1-B9 takes up 40% less space than comparable analyzers on a typical 80 cm workbench.

Model configuration information

Description	Item
Signal and spectrum analyzer, 5 kHz to 3 GHz	R&S®FPL1003
Signal and spectrum analyzer, 5 kHz to 7.5 GHz	R&S®FPL1007
Options	
OCXO frequency reference	R&S®FPL1-B4
Additional interfaces	R&S®FPL1-B5
Internal Generator	R&S®FPL1-B9 ¹⁾²⁾
GPIO interface	R&S®FPL1-B10

¹⁾ Factory fitted option

²⁾ Use 1323.1925.03 for R&S®FPL1003 and 1323.1925.07 for R&S®FPL1007

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