



# R&S®FPL1-B9 INTERNAL GENERATOR

## Internal signal generator for more analysis possibilities

The perfect choice for

Research, education, service and maintenance

General purpose signal analysis and demodulation

Automated tests due to fast operation and easy integration

Basic function test and EMI debugging in R&D

### Models

R&S®FPL1-B9 (1323.1925.03) for R&S®FPL1003	5 kHz to 3 GHz
R&S®FPL1-B9 (1323.1925.07) for R&S®FPL1007	5 kHz to 7.5 GHz
R&S®FPL1-B9 (1323.1925.07) for R&S®FPL1014	5 kHz to 7.5 GHz
R&S®FPL1-B9 (1323.1925.07) for R&S®FPL1026	5 kHz to 7.5 GHz

### Key specifications

Frequency	5 kHz to 7.5 GHz
Frequency 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
Nonharmonic spurious (0 dBm)	-45 dBc (typ.)

### Your benefit

### Features

Multiple modes	<ul style="list-style-type: none"> <li>▶ Independent CW source</li> <li>▶ Tracking generator (TG)</li> </ul>
Spectral purity	High dynamic range for your measurements
Characterization of your circuits	Powerful tracking generator for gain, frequency response and return loss measurements
More space on your test bench	The instrument includes a signal generator for general purpose applications, which saves you space



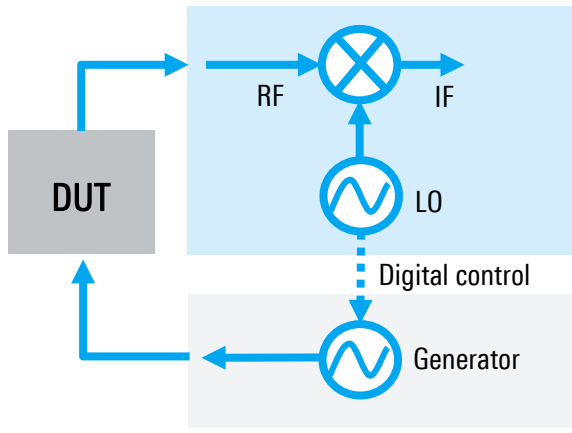
### Scalar network analysis made simple

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.



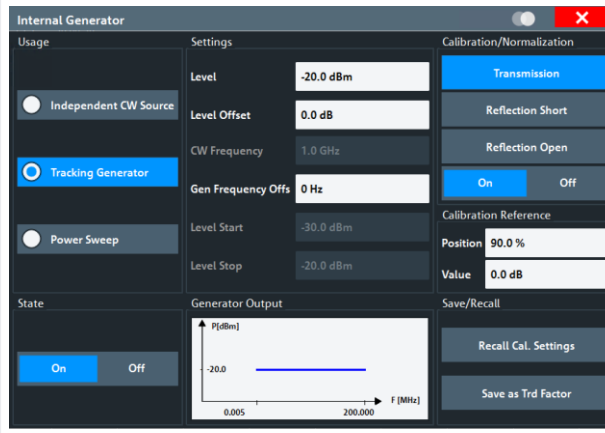
For more information, visit  
[www.rohde-schwarz.com/product/FPL1000](http://www.rohde-schwarz.com/product/FPL1000)

## Block diagram of TG mode



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

## All-in-one dialog for easy operation



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

## 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
Signal and spectrum analyzer, 5 kHz to 14 GHz	R&S®FPL1014
Signal and spectrum analyzer, 5 kHz to 26 GHz	R&S®FPL1026
Options	
OCXO frequency reference	R&S®FPL1-B4
Additional interfaces	R&S®FPL1-B5
Internal generator	R&S®FPL1-B9 <sup>1)</sup> <sup>2)</sup>
GPIB interface	R&S®FPL1-B10

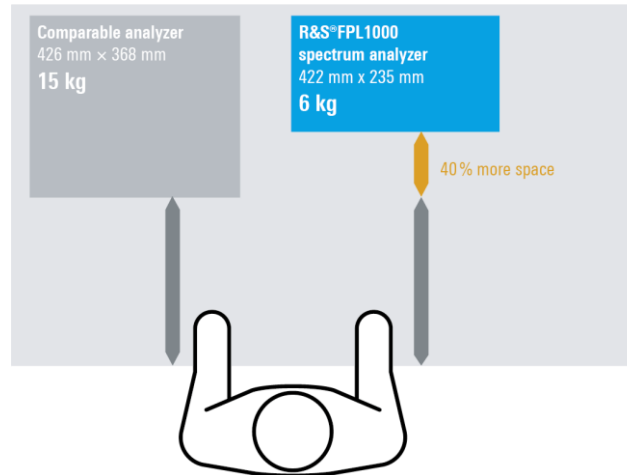
<sup>1)</sup> Factory fitted option

<sup>2)</sup> Use 1323.1925.03 for R&S®FPL1003 and 1323.1925.07 for R&S®FPL1007, R&S®FPL1014, and R&S®FPL1026

## 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



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

Rohde & Schwarz representative

Rohde & Schwarz GmbH & Co. KG ([www.rohde-schwarz.com](http://www.rohde-schwarz.com))

Rohde & Schwarz customer support ([www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support)) Rohde & Schwarz training ([www.training.rohde-schwarz.com](http://www.training.rohde-schwarz.com))

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG | PD 3608.2859.32 | Version 01.30 | November 2021 (nb)

Trade names are trademarks of the owners | R&S®FPL1-B9 internal generator | Data without tolerance limits is not binding

Subject to change | © 2021 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany