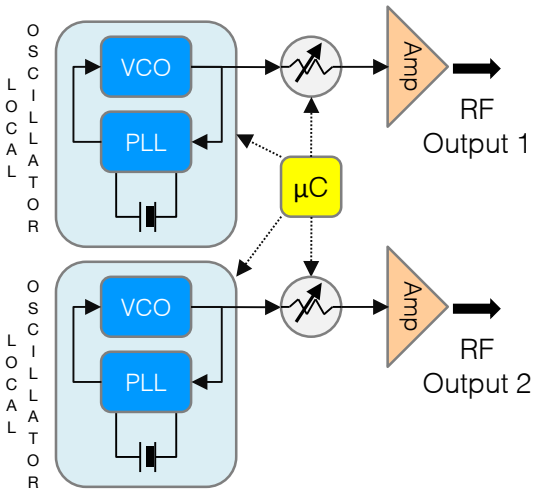
PM microwave

FS2G

FREQUENCY SYNTHESIZED DOUBLE GENERATOR

The Frequency Synthesized Double Generator is a two sine wave signals source which allows to independently set the frequency and the level of each signal.
The typical application of the Double Generator is the intermodulation measurements for GSM, PCN, DECT, UMTS, LTE, and WiFi systems.



▲ Block diagram of the Frequency Synthesized Double Generator

The architecture of the Double Generator is fundamentally composed of two independent sine wave signal sources. The output level of each output signal is controlled by a variable attenuator positioned before the amplification block. Thanks to the user-friendly interface, an LCD and a rotary encoder placed on the front panel, the operator can easily adjust frequency and output level parameters of each signal. It is also possible to enable or disable the two sources independently. Moreover, the Double Generator is remotely adjustable through a serial or Ethernet connection.
The internal oscillators, designed by PM Microwave, are characterized by high stability values and spectral purity.

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FREQUENCY SYNTHESIZED DOUBLE GENERATOR

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

GENERATOR	FS2G-900	FS2G-2000
Frequency range	800 ÷ 1000 MHz	1700 ÷ 2500 MHz
Frequency resolution	200 kHz (10 kHz on request)	200 kHz (10 kHz on request)
Output RF level	-30 ÷ +10 dBm	-25 ÷ +13 dBm
Input video level	1 Vpp	1 Vpp
Phase noise	95 dBc/Hz @ 10 kHz	85 dBc/Hz @ 10 kHz
Frequency stability	± 2 ppm	± 2 ppm

GENERAL	
RF connectors	2 x N female 50 Ω
Local control	rotary encoder and display on front panel
Remote control	RS232, HTTP o SNMP
Power supply	110 ÷ 240 Vac
Power consumption	typ. 20 W
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	Rack 19" 1U (483 x 45 x 435 mm)
Protection degree	IP50