

Reference Spectrum Generator

RSG 3000

- Frequency range 1MHz - 6GHz
- Integrated high stability temperature compensated crystal oscillator
- Battery operated
- Suitable for laboratory comparison measurements and calibrations



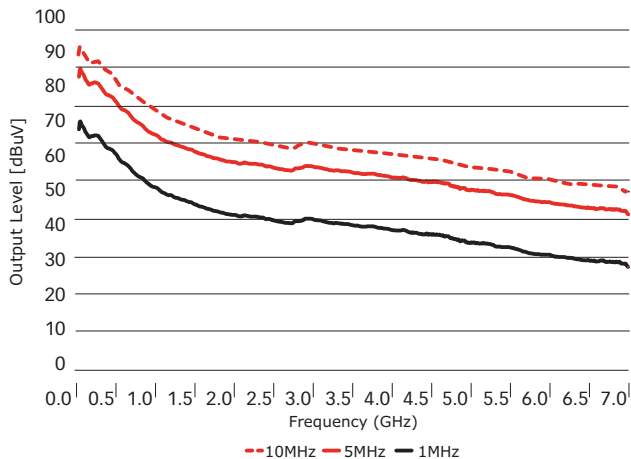
The RSG 3000 is a reference generator for the frequency range from 1 MHz to 6 GHz. The comb generator is supplied by a high stability temperature compensated crystal oscillator (TCXO) and generates a frequency spectrum with a line spacing of 10 MHz, 5 MHz or 1 MHz.

The RSG 3000 is suitable for various EMC measurements. In combination with an antenna it provides reference measurements between open area test sites and alternative facilities such as GTEM cells and anechoic chambers.

It may be used for calibration of these alternative facilities as well as for quick checks of antennas and test set-ups. Further the RSG 3000 can be used to measure the attenuation of absorbing material or the shielding effectiveness of screening materials.

The comb generator RSG 3000 may be used to enhance the measuring capabilities of receivers without tracking-generator. Due to its high stability it is also suitable for calibration of measuring receivers and for quick check of measuring accuracy and other test set-up parameters. Attenuations of for example coaxial cables or attenuators can be determined simply and without the use of a network analyzer.

RSG 3000 - Output Level @50Ω typical





Included in standard delivery RSG 3000 (order code 244550)
 1 pce Reference Spectrum Generator RSG 3000
 1 pce Battery charger with mains adapter for EU, UK, AUS, US
 4 pcs Batteries, type Mignon/AA, 1.2V, NiMH, >=2100mAh
 1 pce Suitcase

Option
 1 pce Attenuator, 10dB, DC up to 8GHz, 2 Watts, N type

RSG 3000	Specifications
Frequency range:	1 MHz – 6 GHz (typical 7 GHz)
Comb spacing:	10 MHz, 5 MHz, 1 MHz
Frequency stability (TCXO, 10MHz):	< 1 ppm (0°C - +50°C)
Aging:	< 1 ppm / year
Frequency correction (internal):	< 5 ppm
Output level @ 50 Ohm, typical (10MHz spacing):	90 dBµV @ 10 MHz 60 dBµV @ 6 GHz
Signal stability:	< 0.3 dB @ 20°C, < 0.5 dB (+5°C - +40°C)
Power supply:	rechargeable batteries (changeable) type AA/Mignon, working time approx. 16h
Connector (RF-output):	N, female, 50 Ohm
Operating temperature:	+5°C to +40°C
Relative humidity:	<= 80%
Dimensions (B x H x T):	60 x 60 x 140 mm
Weight: approx.	580 g

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