

LOW-HARMONIC RF GENERATOR



The DS Instruments \$G6000F RF Signal Generator continues to set the industry standard in affordable ultra-compact RF Signal Generation. The \$G6000F provides a pure low-harmonic sine-wave, unlike most other compact signal generators. This fully synthesized, modern fractional-N device covers up to 6GHz. Output power is auto-leveled to +10dBm and can be adjusted downward in 0.5dB steps, or continuously via the internal variable attenuator. The bright OLED display provides useful feedback for the user, and front control buttons provide a quick alternative to USB control. In applications where signal distortion is critical issue, the \$G6000F or low-phase-noise \$G6000PRO are unbeatable solutions.

Looking for lower phase-noise and smaller frequency step size? SG6000PRO

SG6000F Features:

- Active harmonic filtering
- External sweep trigger input (MCX) (active low)
- Stand-alone and USB remote operation
- 50MHz to 6GHz output frequency
- Adjustable output power (Step & Variable)
- Industry-standard SCPI command support
- Internal ±2.5PPM TCXO 10MHz reference
- Front user frequency step buttons
- Frequency-sweeping support
- Front-mounted bright OLED display
- Simple Windows control GUI
- Powered from standard micro-USB
- Easy to interface with all software packages (.NET, Matlab, python, android, linux...)

RF Signal Generator Specifications:

- Highest Harmonic Levels: -25dBc typical
- Frequency Range: 50-6000 MHz
- Default Power Level: +10 dBm
- Phase Noise: -74dBc @ 10KHz offset
- Internal Attenuator (digital): 64 x (0.5dB) Steps
- Internal Attenuator (variable): ~15dB (10 bit DAC)
- Dimensions: 2.75" x 1.25" x 3.15"
- Input Voltage: 5V Standard micro USB
- Output Impedance: 50 Ohm
- RF Connectors: Premium gold microwave SMA

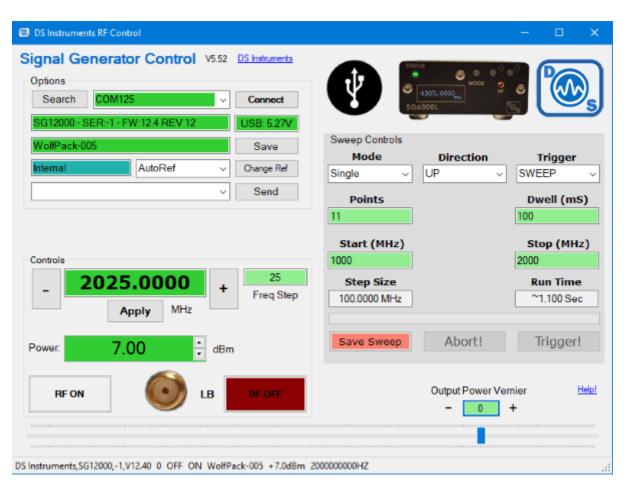
Common Applications:

- Automated testing environments
- General RF Lab use
- Flexible LO sourcing
- Antenna design
- EMC Testing
- Production verification and testing
- Educational / university lab use
- Aerospace / Defense Research
- 802.11n Development / Testing
- LTE Engineering

Rear Panel:



PC Control Software (USB / LAN):



SG6000F Performance Data:

