

Sinolink Technologies
-Your Exceptional RF Team

Multi-Channel Phase-Coherent Signal Generator



Multi-Channel Phase-Coherent Signal Generator

Multi-channel phase-coherent signal generator is a phase-coherent, and low phase noise signal generator. With 2-5 channels frequency range from 10MHz to 40GHz, with frequency resolution as low as 0.01 Hz. The instruments support narrow pulse modulation. Output power level range from -110dBm to +15dBm, Every channel can be independently fully adjusted.

The instrument comes in a standard 2U/3U rack-mount form and offers LAN control interface, which allows easy and fast communication. Remote control of the instrument can be quickly attained from any host system. Application programming interface (API) or programming examples make the control implementation very easy.

Features:

- Frequency range: 10MHz-40GHz
- 2-5 RF output channels which can operate individually
- Phase coherent among every channel
- Channel to channel Relative Phase drift (10GHz, 24h) $\leq \pm 1^\circ$
- Low phase noise, high output power
- Narrow pulse modulation
- Fast frequency switching time

Applications:

- R&D low noise microwave generator
- Local Oscillator Replacement
- Component Test
- Receiver Sensitivity Test



Specifications

Output

Model	SFL440D/SLFS4440T etc.
Frequency range	10MHz-20/40GHz Each channel can be different
Output channel	2-5Ch
Frequency resolution	0.01Hz +15dBm @10MHz-20GHz +13dBm @20GHz-40GHz
Max output power	+13dBm @20GHz-40GHz
Min output power	-110dBm
Power resolution	0.01dB
Power level uncertainty	$\leq \pm 1.3\text{dB}$ @ $> -20\text{dBm}$ $\leq \pm 1.5\text{dB}$ @ $-20 \sim -70\text{dBm}$ $\leq \pm 3\text{dB}$ @ $\leq -70\text{dBm}$
Non-harmonic spurious	$\leq -70\text{dBc}$ @ 10MHz~12GHz $\leq -65\text{dBc}$ @ 12GHz~20GHz $\leq -60\text{dBc}$ @ 20GHz~40GHz
Harmonic spurious	$\leq -50\text{dBc}$ @ 10dBm output
Channel to channel isolation	$\geq 80\text{dB}$
Pulse modulation	Minimum pulse width 50ns $\leq -86\text{dBc/Hz}$ @ 100Hz $\leq -108\text{dBc/Hz}$ @ 1KHz $\leq -116\text{dBc/Hz}$ @ 10KHz $\leq -116\text{dBc/Hz}$ @ 100KHz $\leq -120\text{dBc/Hz}$ @ 1MHz $\leq -140\text{dBc/Hz}$ @ 10MHz
SSB (10GHz)	

Frequency reference

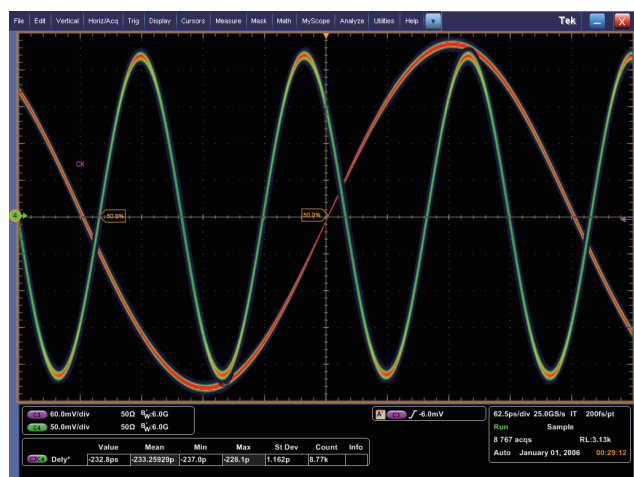
Internal reference frequency temperature stability	$\pm 5 \times 10^{-8}$ $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Internal reference frequency	10MHz
Internal reference output power	$\geq 5\text{dBm}$
External reference input level range	5 ~ 10dBm
Both external and internal reference supported	$\leq -125\text{dBc/Hz}$ @ 10Hz $\leq -140\text{dBc/Hz}$ @ 100Hz SSB of internal reference $\leq -150\text{dBc/Hz}$ @ 1KHz $\leq -155\text{dBc/Hz}$ @ 10KHz $\leq -155\text{dBc/Hz}$ @ 100KHz

Environmental

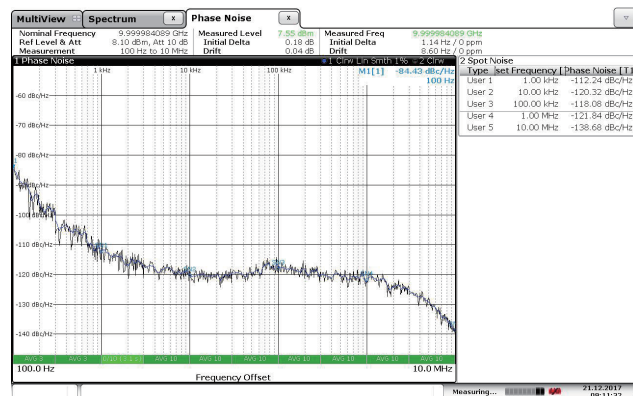
Operational temperature	$0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Operational humidity	20% ~ 80% (+30°C)

General

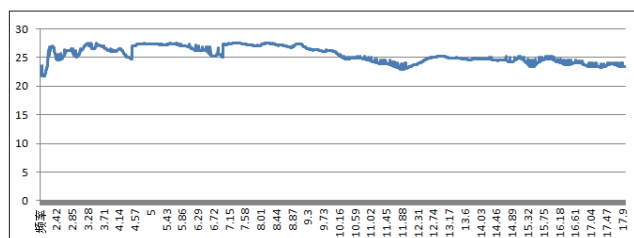
LAN control	RJ-45 (TCP/IP over Ethernet)
Power Supply	AC 176~264VAC, 45Hz~65Hz
Dimension	483mm*89mm*559mm(2U) 483mm*134mm*559mm(3U)
Weight	$\leq 20\text{kg}$
Warranty	Three-years parts and labor



Phase Synchronization



Phase Noise @10GHz

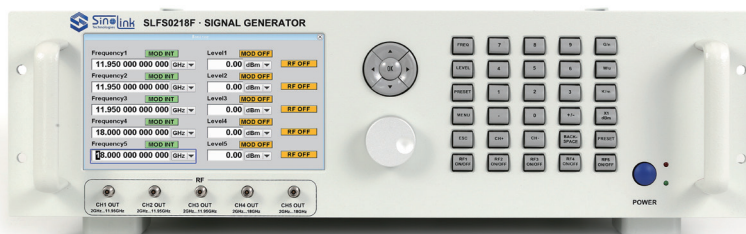


Maximum Output Power

Order Information

MODEL: SLFS440D/SLFS4440T/SLFS20T/SLFS4220D/SLFS40F

2-5Ch-output, phase-coherent, and low phase noise signal generator; The maximum output frequency of each channel can be configured flexibly.



For more information on Sinolink Technologies' products, applications or services please contact Sinolink Technologies (Beijing) Co., Ltd. The complete list is available at: www.sinolink-technologies.com



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3 Year Warranty

The combination of superior product reliability and 3-year warranty service helps you achieve the following goals: increased measurement confidence, reduced cost of ownership, and increased ease of operation.