

S1134 Series Multi-channel Signal Generator

(Frequency Range: 10MHz - 40GHz, 2-5 channels)



Key Features

- Frequency range: 10MHz to 40GHz
- 2-5 RF output channels which can operate individually
- Maximum output power: $\geq +15\text{dBm}$
- Phase noise: $< -116\text{dBc/Hz}$ (10GHz, 10kHz offset)
- Phase coherent among every channel
- Channel to channel relative phase drift (10GHz, 24h) $\leq \pm 1^\circ$
- High-speed frequency switching $< 10\mu\text{s}$
- Narrow pulse modulation, minimum pulse width 50ns
- Rise/fall time 10ns

Overview

Saluki S1134 series signal generator is a low-phase-noise coherent signal generator that supports 2-5 independent channel outputs. Output frequency: 10MHz-40GHz, output power range is -110dBm to +20dBm, each channel is independently controllable. Standard 2U/3U rack-mounted chassis structure. The multi-channel coherent signal generator has excellent performance in applications requiring high signal quality and stable coherence of each channel. High stability OCXO references provide excellent frequency accuracy and frequency stability. In addition, the signal source has high-frequency reference input and output ports, which can ensure that the phases of multiple output channels and multiple instruments are strictly coherent and stable for a long time. At the same time, the multi-channel coherent signal source has a LAN control interface, which can ensure convenient and efficient program control. The remote control of the instrument can be quickly realized through any host system, and the application program interface (API) or programming example provided at the same time makes the instrument programming very simple.

Applications: Local Oscillator Replacement / Component Test / Receiver Sensitivity Test / R&D low noise microwave generator

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Technical Specifications

Model	S1134 Series
Output	
Frequency Range	10MHz - 24/40GHz (each channel can be different) <i>*For other frequency range, contact us for customization*</i>
Output Channel	2-5 channels
Frequency Resolution	0.01Hz
Maximum Output Power	10MHz to 20GHz: +15dBm 20GHz to 40GHz: +13dBm
Minimum 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 to -65dBm $\leq \pm 3\text{dB}$ @ $\leq -65\text{dBm}$
Harmonic Spurious	$\leq -40\text{dBc}$ @ 10MHz - 200MHz, $\leq -50\text{dBc}$ @ 200MHz - 20GHz, $\leq -55\text{dBc}$ @ 20GHz - 40GHz
Non-harmonic Spurious	10MHz - 12GHz: $\leq -70\text{dBc}$ 12GHz - 20GHz: $\leq -65\text{dBc}$ 20GHz - 40GHz: $\leq -60\text{dBc}$
Channel to Channel Isolation	$\geq 80\text{dB}$
Pulse Modulation	Minimum pulse width 50ns
SSB Phase Noise (@10GHz)	$\leq -86\text{dBc/Hz}$ @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

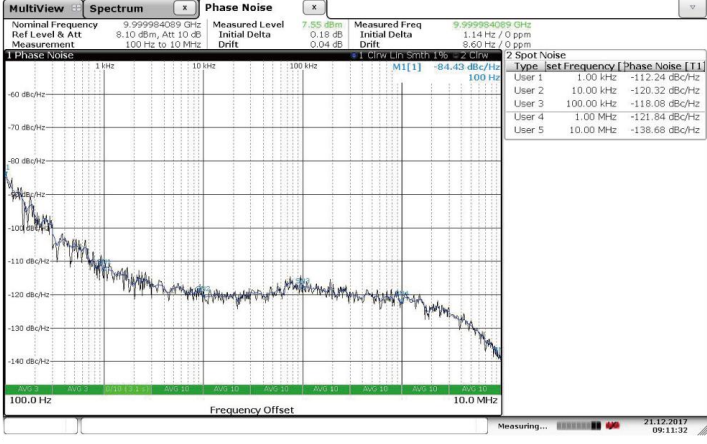
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<p>SSB Phase Noise (@10GHz)</p>	 <p>Phase Noise @10GHz</p>
<p>Frequency Reference</p>	
<p>Both external and internal reference supported</p>	
<p>Internal Reference Frequency Temperature Stability</p>	<p>$\pm 5 \times 10^{-8}$, 0°C to +50°C</p>
<p>Internal Reference Frequency</p>	<p>10MHz</p>
<p>Internal Reference Output Power</p>	<p>≥ 5 dBm</p>
<p>External Reference Input Level Range</p>	<p>5dBm - 10dBm</p>
<p>SSB of Internal Reference</p>	<p> ≤ -125 dBc/Hz@10Hz ≤ -140 dBc/Hz@100Hz ≤ -150 dBc/Hz@1KHz ≤ -155 dBc/Hz@10KHz ≤ -155 dBc/Hz@100KHz </p>
<p>General Information</p>	
<p>LAN Control</p>	<p>RJ-45 (TCP/IP over Ethernet)</p>

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Operation Temperature	0°C to +50°C
Operation Humidity	20%-80% (+30°C)
Power Supply	AC 176-264VAC, 45Hz-65Hz
Dimension	483 (W) × 89 (H) × 559 (D) mm (2U) 483 (W) × 134 (H) × 559 (D) mm (3U)
Weight	≤20kg

Ordering Information

The output frequency of each channel can be configured flexibly.

Module No.	Item
S1134D	2-channel output, frequency range: 10MHz-24GHz/40GHz
S1134T	3-channel output, frequency range: 10MHz-24GHz/40GHz
S1134Q	4-channel output, frequency range: 10MHz-24GHz/40GHz
S1134F	5-channel output, frequency range: 10MHz-24GHz/40GHz

Example:

S1134T-224: 3CH output, 2 channels are 10MHz-24GHz, 1 channel is 10MHz-40GHz.

S1134Q-2222: 4CH output, all channels are 10MHz-24GHz.

Note: Information will conduct the necessary updates, the contents of this document are subject to change without notice