

# S1134 Series Multi-channel Signal Generator

(Frequency Range: 10MHz - 40GHz, 2-8 channels)



## Key Features

- Frequency range: 10MHz to 40GHz
- 2-8 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 phase-coherent and low phase noise signal generator with 2-8 channels. Every channel can be independently fully adjusted. S1134 series can cover frequency range from 10MHz to 40GHz with frequency resolution as low as 0.01 Hz.

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.

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

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## Technical Specifications

Model	S1134 Series
<b>Output</b>	
Frequency Range	10MHz - 20/40GHz (each channel can be different) <i>*For other frequency range, contact us for customization*</i>
Output Channel	2-8 channels
Frequency Resolution	0.01Hz
Maximum Output Power	10MHz to 20GHz: +15dBm 20GHz to 40GHz: +13dBm
Minimum Output Power	-110dBm
Power Resolution	0.01dB
Switching Speed	≤20ms
Power Level Uncertainty	≤±1.3dB @>-20dBm ≤±1.5dB @-20 to -70dBm ≤±3dB @≤ -70dBm
Harmonic Spurious	≤-50dBc @10dBm output
Non-harmonic Spurious	10MHz - 12GHz: ≤-70dBc 12GHz - 20GHz: ≤-65dBc 20GHz - 40GHz: ≤-60dBc
Channel to Channel Isolation	≥80dB
Pulse Modulation	Minimum pulse width 50ns
SSB Phase Noise (@10GHz )	≤-86dBc/Hz@100Hz ≤-108dBc/Hz@1KHz ≤-116dBc/Hz@10KHz ≤-116dBc/Hz@100KHz ≤-120dBc/Hz@1MHz ≤-140dBc/Hz@10MHz

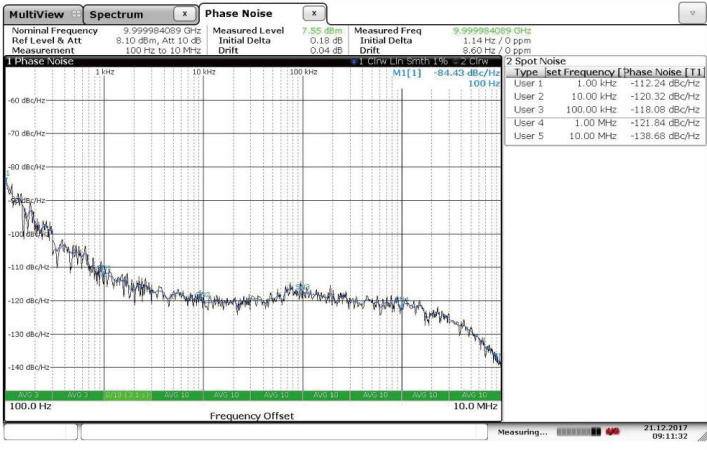
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<p>SSB Phase Noise (@10GHz )</p>	 <p>Phase Noise @ 10GHz</p>
<p><b>Frequency Reference</b></p>	
<p>Both external and internal reference supported</p>	
<p>Internal Reference Frequency Temperature Stability</p>	<p><math>\pm 5e-8</math>, 0°C to +50°C</p>
<p>Internal Reference Frequency</p>	<p>10MHz</p>
<p>Internal Reference Output Power</p>	<p><math>\geq 5</math> dBm</p>
<p>External Reference Input Level Range</p>	<p>5dBm - 10dBm</p>
<p>SSB of Internal Reference</p>	<p><math>\leq -125</math> dBc/Hz@10Hz  <math>\leq -140</math> dBc/Hz@100Hz  <math>\leq -150</math> dBc/Hz@1KHz  <math>\leq -155</math> dBc/Hz@10KHz  <math>\leq -155</math> dBc/Hz@100KHz</p>
<p><b>General Information</b></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-20GHz/40GHz
S1134T	3-channel output, frequency range: 10MHz-20GHz/40GHz
S1134Q	4-channel output, frequency range: 10MHz-20GHz/40GHz
S1134F	5-channel output, frequency range: 10MHz-20GHz/40GHz
S1134S	6-channel output, frequency range: 10MHz-20GHz/40GHz
S1134H	7-channel output, frequency range: 10MHz-20GHz/40GHz
S1134O	8-channel output, frequency range: 10MHz-20GHz/40GHz

### Example:

S1134T-224: 3CH output, t channels are 10MHz-20GHz, 1 channel is 10MHz-40GHz.

S1134Q-2222: 4CH output, all channels are 10MHz-20GHz.

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