Small Instrumentation Modules

SIM983 — Scaling amplifier

- · Adjustable gain and offset
- · 3½-digit resolution
- · 1 MHz bandwidth
- · Low-noise input
- ±10 V operating range





SIM983 Scaling Amplifier

The SIM983 Scaling Amplifier provides fine adjustable gain and offset control for analog signals. Both gain and offset are set with 3½ digits of resolution, and the signal path has more than 1 MHz of bandwidth. Its low noise, high gain, and high slew rate make the SIM983 a very convenient tool for sensitive analog signal conditioning.

The digital control circuitry in the SIM983 is designed with SRS's special clock-stopping architecture in which the microcontroller is turned on only when switch settings are being changed. This guarantees that no digital noise contaminates low-level analog signals.

Specifications

Max. input $\pm 10 \, V$

Gain ± 0.01 to ± 19.99

 $\begin{array}{ll} \text{Max. output} & \pm 10 \, \text{V} \\ \text{THD} & 0.01 \, \% \, (80 \, \text{dB}) \, \textit{@} \, 1 \, \text{kHz} \end{array}$

Slew rate $70 \text{ V/}\mu\text{s}$

Operating temperature 0 °C to 40 °C, non-condensing
Interface Serial via SIM interface
Connectors BNC (2 front-panel, 1 rear-panel)

DB15 (male) SIM interface

Power +5 VDC (100 mA max.), ±15 VDC (300 mA max.)

Dimensions 1.5"×3.6"×7.0" (WHD)

Weight 1.5 lbs.

Warranty One year parts and labor on defects

in materials and workmanship

Ordering Information

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