Small Instrumentation Modules

SIM980 — Analog summing amplifier (4-channel)

- Four summing inputs
- ±10 V operating range
- · 1 MHz bandwidth
- Low crosstalk (–80 dB)
- ·<100 μV input offset
- · High slew rate

• SIM980 ... \$1095 (U.S. list)





SIM980 Summing Amplifier

The SIM980 Summing Amplifier has four input channels that can be added or subtracted from each other. The output noise is less than 60 nV/\day{Hz}, and crosstalk between channels is less than -80 dB. With a bandwidth of 1 MHz, a slew rate of 40 V/ μ s, and input offsets that are trimmed to $\pm 100 \mu$ V, the SIM980 is extremely useful in many analog applications.

The digital control circuitry in the SIM980 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

Number of inputs

Function Inverting, non-inverting or off

Gain Impedance $1\,\mathrm{M}\Omega$ DC to 1 MHz Bandwidth Output noise 60 nV/√Hz @ 1 kHz Crosstalk −80 dB @ 1 kHz

 $\pm 100 \,\mu\text{V}$ (after 5 min. warm up) Offset

Max. input & output ±10 V Input slew rate $40 \, V/\mu s$

THD 0.01% (80dB) @ 1kHz

Output slew rate

0°C to 40°C, non-condensing Operating temperature Interface Serial via SIM interface

BNC (5 front-panel, 1 rear-panel) Connectors DB15 (male) SIM interface

Power (max.) Powered by SIM900 Mainframe, or

by user-provided DC power supply $(\pm 15 \text{ V and } +5 \text{ V})$

 $1.5" \times 3.6" \times 7.0"$ (WHD), 1.5 lbs. Dimensions, weight Warranty

One year parts and labor on defects in materials and workmanship

Ordering Information

Summing amplifier \$1095



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