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</p>
- High slew rate





• SIM980 ... \$675 (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/ \sqrt{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 Gain Impedance Bandwidth

4 Inverting, non-inverting or off $1 \times$ $1\,M\Omega$ DC to 1 MHz

 $60 \,\mathrm{nV}/\sqrt{\mathrm{Hz}}$ (*a*) 1 kHz Output noise Crosstalk -80 dB @ 1 kHz Offset $\pm 100 \,\mu V$ (after 5 min. warm up) Max. input & output ±10 V Input slew rate THD Output slew rate Operating temperature Interface Connectors Power (max.)

Dimensions, weight

Warranty

 $40 V/\mu s$ 0.01 % (80 dB) @ 1 kHz 75 V/µs 0°C to 40°C, non-condensing Serial via SIM interface BNC (5 front-panel, 1 rear-panel) DB15 (male) SIM interface +5 VDC (100 mA),±15 VDC (300 mA) 1.5"×3.6"×7.0" (WHD), 1.5 lbs. One year parts and labor on defects in materials and workmanship

Ordering Information

SIM980 Summing amplifier \$675



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