Small Instrumentation Modules

SIM980 — Analog summing amplifier (4-channel)



Traunstraße 21, A-2120 Wolkersdorf T:+43 2245 6725 F:+43 2245 559633 office@prager-elektronik.at www.prager-elektronik.at

- · Four summing inputs
- $\cdot \pm 10$ V operating range
- \cdot 1 MHz bandwidth
- · Low crosstalk (-80 dB)
- \cdot <100 μ V input offset
- · High slew rate





• SIM980 ... \$1795 (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

-80 dB @ 1 kHz
±100 μV (after 5 min. warm up)
±10 V
40 V/μs
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
Powered by SIM900 Mainframe, or
by user-provided DC power supply
(±15 V and +5 V)
1.5" × 3.6" × 7.0" (WHD), 1.5 lbs.
One year parts and labor on defects
in materials and workmanship

