Small Instrumentation Modules

SIM984 — Isolation amplifier

- \cdot Isolation voltage up to ± 1000 V
- Gain of x1, x10, or x100
- 1 MHz bandwidth
- 15 nV/√Hz input noise
- \cdot 1 M Ω input impedance



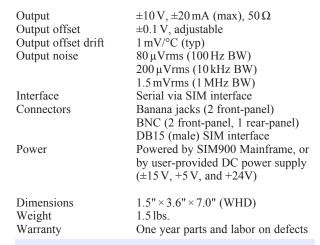


SIM984 Isolation Amplifier

The SIM984 is a wide bandwidth, low noise isolation amplifier. It has a gain of up to x100 and a bandwidth up to 1 MHz. The input stage is floating and is optically coupled to the output stage which is chassis grounded. The input signal can float up to 1000 V above or below ground. DC output offset can be adjusted from the front panel with a small screwdriver. In addition to measuring isolated signals, the SIM984 can also be used to break ground loops and reduce common-mode interference.

Specifications

Isolation voltage IMRR Max. input Input impedance Input noise (typ) Gain Frequency range ±1000 V (max) 150 dB (DC) ±10 V 1 MΩ 15 nV/√Hz at 1 kHz x1, x10, x100 (±0.5 %) DC to 100 Hz (Low BW) DC to 10 kHz Mediate BW) DC to 1 MHz (High BW)



Ordering Information

SIM984 Isolation amplifier



