

SIM914 350 MHz Preamplifier

- DC to 350 MHz bandwidth
- Two independent amplifier channels
- Voltage gain of 5 (14 dB) per channel
- 6.4 nV/√Hz input noise
- 3 ns overload recovery
- Excellent phase linearity

SIM914...\$675 (U.S. List)

The SIM914 dual channel 350 MHz preamplifier contains two wide bandwidth, DC coupled amplifiers, each with a gain of 5 (14 dB). Its fast rise time, low noise, and excellent DC accuracy make it an ideal instrument for amplifying signals like those from photomultiplier tubes and photodiodes.

The gain stages on the SIM914 can be cascaded multiple times without creating oscillation problems. Input clamping gives a 3 ns recovery time from a 10× overload.

A wide bandwidth and 50 Ω input and output impedance ensure a linear phase response across the entire frequency range, preserving pulse shapes.

The SIM914 is part of a wide range of modules available for the SIM (Small Instrumentation Modules) platform from Stanford Research Systems. For more information, please contact SRS at 408-744-9040 or visit our web site at www.thinkSRS.com.





Power Dimensions Weiaht Warranty

Connectors

Crosstalk

Interface

Inputs

Outputs

Bandwidth

Voltage gain

Inputs

Outputs

Input noise

Specifications

SRS SIM914 Dual

50 Ω , DC coupled 50Ω , DC coupled DC to 350 MHz 1 ns 5 per channel (14 dB) 6.4 nV/√Hz, typical ±200 mV

±1V 2.7 ns 3 ns for 10× overload $\pm 50 \text{ V for } < 1 \mu\text{s}$ $\pm 1.6 V$ $\pm 1.3 V$ -60 dB

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

BNC (4 front)

DB15 (M) SIM Interface

±5 V (100 mA)

 $1.5" \text{ W} \times 3.6" \text{ H} \times 7.0" \text{ D}$

1.4 lbs

One year parts & labor against defects in workmanship and

materials





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