

SIM914

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Small Instrumentation Modules

SIM914 — 350 MHz preamplifier (2-channel)

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



SIM914 Dual 350 MHz Preamplifier

The SIM914 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 of several SIM914 can be cascaded without creating oscillation problems. Input clamping gives a 3 ns recovery time from a 10 \times overload.

Wide bandwidth, along with 50 Ω input and output impedance, ensures a linear phase response across the entire frequency range, preserving pulse shapes.

SIM914 Specifications

Amplifier channels	2
Inputs, outputs	50 Ω , DC coupled
Bandwidth	DC to 350 MHz (1 ns rise/fall time)
Voltage gain	5 per channel (14 dB)

Input noise	6.4 nV/ $\sqrt{\text{Hz}}$ (typ.)
Operating range	± 200 mV (inputs), ± 1 V (outputs)
Propagation delay	2.7 ns (typ.)
Recovery time	3 ns for 10 \times overload
Input protection	± 50 V for < 1 μ s
Output clamp	± 1.6 V
Output overload detect	± 1.3 V
Crosstalk	-60 dB
Operating temperature	0 $^{\circ}$ C to 40 $^{\circ}$ C, non-condensing
Connectors	BNC (4 front), DB15/M SIM interface
Power	Powered by SIM900 Mainframe, or external DC supply (+5 V)
Dimensions, weight	1.5" \times 3.6" \times 7.0" (WHD), 1.4 lbs.
Warranty	One year parts and labor on defects in materials and workmanship

Ordering Information

SIM914 350 MHz preamplifier

Small Instrumentation Modules

SIM900 Series — Product overview



SIM900 Series

- SIM mainframe
- Analog PID controller
- AC Resistance bridge
- Bessel/Butterworth filters
- Preamplifiers
- Temperature monitors
- Analog signal conditioning
- Isolated voltage source
- Octal 4-wire multiplexer
- Quad digital voltmeter
- Rubidium frequency standard

SIM — Small Instrumentation Modules — is a compact test and measurement platform for a wide range of applications. Unlike other modular systems, SIM offers complete front-panel as well as remote operation, allowing you to choose between manual and computer control. Up to eight instruments share the same mainframe which provides power, clock synchronization, communications, and module status. For additional versatility, you can cascade mainframes or other RS-232 instruments, and even operate modules outside the mainframe.

With SIM, you configure precision measurement and control systems, achieving the exact functionality you need while avoiding the cost of unnecessary features.

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