



产品 手 册

仪器型号: SRS斯坦福锁相放大器SR551

西安安泰测试科技有限公司

仪器维修|租赁|销售|测试

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Lock-In Preamplifier

SR551 — High impedance preamplifier



- \cdot >1 T Ω input impedance
- Gain of ×10
- · Single-ended and differential inputs
- · 1 MHz bandwidth
- · 12 nV/ \sqrt{Hz} at 1 kHz voltage noise
- · Powered by SRS lock-in amplifiers

The SR551 High Impedance Preamplifier works with SRS lock-in amplifiers to measure voltages from sources with moderate to high source impedance. The preamplifier is designed for source impedances of up to gigaohms with little error from resistive loading, due to its exceptionally high 1 T Ω input impedance.

The SR551 operates with a fixed votage gain of $\times 10$, amplifying signals from DC to 1 MHz.. Power and control signals are brought from an SRS lock-in amplifier by a 9-pin cable (included). The SR551 may also be operated independently by applying appropriate power supply voltages (± 20 VDC).

SR551 Specifications

Input impedance $>1 T\Omega$ Inputs Single-ended or differential Input range -4 V to +4 V $\times 10$ Gain Gain accuracy ± 0.5 % at 1 kHz Gain stability ±25 ppm/°C (0°C to 40°C) Bandwidth 1 MHz (-3 dB) Input bias current <1 pA $12 \text{ nV}/\sqrt{\text{Hz}}$ at 1 kHz (typ.) Input voltage noise Input current noise $0.6 \text{ fA}/\sqrt{\text{Hz}}$ at 1 kHz (typ.) CMRR >90 dB at 1 kHz Input offset voltage $< 500 \mu V$ $3 \mu V/^{\circ}C$ (0°C to 40°C) (typ) Vos drift 8 Vp (max), balanced differential Output 10 mA (max), 50 Ω Supplied by SRS Lock-In Amplifier Power "Preamp Power" via control cable Dimensions 3.0" × 1.3" × 5.1" (WHL) Weight 1 lbs. Temperature range 0°C to 40°C Warranty One year parts and labor on defects in materials and workmanship

Ordering Information

SR551 Lock-in preamplifier

\$750

