Lock-In Preamplifier

SR555 — Current preamplifier

- 10 V/μA fixed gain
- 120 kHz bandwidth
- Bias voltage input
- Powered by SRS lock-in amplifiers



• SR555 ... \$1095 (U.S. list)

The SR555 is a low-noise, high-bandwidth, fixed-gain current (trans-impedance) amplifier designed to work with SRS lockin amplifiers. Current amplifiers provide gain close to the experimental detector, allowing the user to minimize input cable length and its corresponding input capacitance. The SR555 minimizes noise and pickup before they permanently degrade the signal-to-noise ratio, reducing measurement time in noise-limited experiments. Power is brought from the lock-in by a 9-pin cable. The SR555 can also be operated independently by applying the appropriate DC power.

SR555 Specifications

Gain Bandwidth Input noise (typ.)	10^7 V/A 120 kHz (-3 dB) 42 fA/ $\sqrt{\text{Hz}}$ at 1 kHz
Current input	
Impedance	$< 50 \Omega$
Bias current	<3 pA
DC bias input	
Range	$\pm 5 \text{ VDC}$
Settling time	<150 ms
Impedance	1 ΜΩ
Gain accuracy	1 %
Gain stability	±50 ppm/°C
Output	20 Vpp max. balanced differential
	10 mA max., 50 Ω
Power	Supplied by SR510, SR530, SR810,
	SR830, SR850 or SR124 via
	control cable
Mechanical	3.0"×1.3"×5.1" (WHD)
Weight	10 oz.
Warranty	One year parts and labor on defects
	in materials and workmanship

Ordering Information SR555 Lock-in preamplifier

\$1095



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