Lock-In Preamplifier

SR556 — Current preamplifier



- · 1 V/nA fixed gain
- \cdot 5 fA/ \sqrt{Hz} input noise
- · Bias voltage input
- · Powered by SRS lock-in amplifiers

• SR556 ... \$1095 (U.S. list)

The SR556 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 SR556 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 SR556 can also be operated independently by applying the appropriate DC power.

SR556 Specifications

Gain	10 ⁹ V/A	
Bandwidth	3 kHz (-3 dB)	
Input noise (typ.)	5 fA/√Hz at 1 kHz	
Current input		
Impedance	<50 Ω	
Bias current	<3 pA	
DC bias input		
Range	±5 VDC	
Settling time	<250 ms	
Impedance	1 MΩ	
Gain accuracy	1%	
Gain stability	$\pm 50 ppm/^{\circ}C$	
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	
2	in materials and workmanship	
	1	

Ordering Information

SR556	Lock-in preamplifier	\$1095
-------	----------------------	--------



phone: (408)744-9040 www.thinkSRS.com