

## N1298C Low Noise Filter, 210 V/3 A

### Low Noise Filter Minimize B2961B/62B Power Source Noise Performance

The Keysight N1298C Low Noise Filter (LNF) provides noise levels comparable to those of linear power supplies and also supports the B2961B/62B's wide bipolar voltage and current ranges (up to 210 V/3 A). In addition, the LNF enables the B2961B/62B to drive capacitive loads of up to 1 mF.

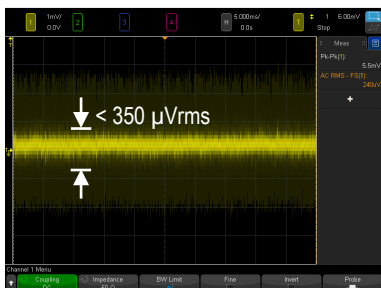


Supplemental characteristics			Values
Max. output	Voltage	DC	210 V
	Current	DC	3 A
Noise	Voltage source	0.1 to 10 Hz	5 $\mu$ Vpp
		10 to 20 MHz	30 $\mu$ Vrms
	Current source	0.1 to 10 Hz	60 pApp
		10 to 1 MHz	450 nArms
Maximum capacitive load			1 mF
Output/residual resistance		2-wire	0.3 $\Omega$ nominal
Small signal bandwidth		1A/3A ranges	2 kHz nominal
		100 mA range	800 Hz nominal

## Uncover More of the True Characteristics of Noise Sensitive Devices

Used together, the Low Noise Filter (LNF) and the Keysight B2961B/62B provide clean voltage sourcing equivalent to that of much costlier precision linear voltage and current sources. Best of all, this solution supports all of the output ranges (210 V@105 mA, 21 V@1.5 A and 6 V@3 A) while providing exceptional low noise performance.

The LNF also supports 4-wire connections to allow accurate sourcing and measurement far from the output terminals of the filter.



## B2961B/62B 6.5 Digit Low Noise Power Source

The Keysight B2961B/62B is an advanced power supply/source. It can source either voltage or current with 6.5 digits of resolution while also monitoring both voltage and current. This makes it essential for a variety of measurement applications.



## N1298A High Current Ultra-Low Noise Filter

A High Current Ultra-Low Noise Filter (HC-ULNF) is also available for the B2961B/62B. The HC-ULNF lowers the B2961B/62B's noise floor and when used together the noise density of this solution is  $1 \text{ nVrms}/\sqrt{\text{Hz}}$  at 10 kHz for voltages and currents of up to 21 V and 500 mA.



## N1298B Ultra-Low Noise Filter

An ultra-low noise filter (ULNF) is also available for the B2961B/62B. The ULNF lowers the B2961B/62B's noise floor and when used together the noise density of this solution is  $1 \text{ nVrms}/\sqrt{\text{Hz}}$  at 10 kHz for voltages and currents of up to 42 V and 100 mA.



More information: [www.keysight.com/find/precisionSOURCE](http://www.keysight.com/find/precisionSOURCE)

Learn more at: [www.keysight.com](http://www.keysight.com)

Find us at [www.keysight.com](http://www.keysight.com)

This information is subject to change without notice. © Keysight Technologies, 2020, Published in USA, December 1, 2020, 3120-1561.EN