Keysight Technologies Low Noise Filter Improves B2961A/62A Power Source Noise Performance

Accessory for the Keysight B2961A/62A 6.5 Digit Low Noise Power Sources

The Keysight Technologies, Inc. N1294A-022 Low Noise Filter (LNF) provides noise levels comparable to those of linear power supplies and also supports the B2961A/62A's wide bipolar voltage and current ranges (up to 210 V/3 A). In addition, the LNF enables the B2961A/62A to drive capacitive loads of up to 1 mF.



	Supplemental Characteristics			Values
F.	Max. output	Voltage	DC	210 V
		Current	DC	3 A
	Noise	Voltage source	0.1 to 10 Hz	5 µVрр
			10 to 20 MHz	350 µVrms
		Current source	0.1 to 10 Hz	1 рАрр
			10 to 1 MHz	450 µArms
	Maximum capacitive load			1 mF
	Output/residual resistance			0.3 Ω nominal (2-wire)
	Small signal bandwidth			2 kHz nominal (1A/3A ranges)
				800 Hz nominal (100 mA range)

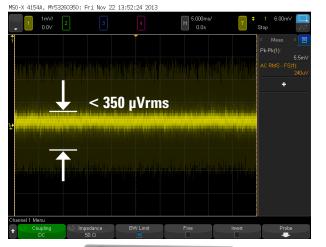
Note: Please see the datasheet (5991-0663EN) of the B2961A/62A for more detail



Noise levels comparable to those of linear power supplies

Used together, the Low Noise Filter (LNF) and the Keysight B2961A/62A 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.





B2961A/62A power source with NLF

B2961A/62A 6.5 Digit Low Noise Power Source

The Keysight B2961A/62A 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.



N1294A-021 Ultra Low Noise Filter

An Ultra-Low Noise Filter (ULNF) is also available for the B2961A/62A. The ULNF lowers the B2961A/62A's noise floor and when used together the noise density of this solution is 1 nVrms/ \sqrt{Hz} at 10 kHz for voltages and currents of up to 42 V and 100 mA. Please refer to 5991-3884EN for more detail.



To Learn More....please visit our website below: www.keysight.com/find/precisionSOURCE



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