

Noise 2

Multiple Choice Quiz

TI Precision Labs – Op Amps



Quiz: Noise 2

1. Which is not a noise source used in intrinsic noise calculations.

- a. Op Amp voltage noise sources
- b. Op amp current noise sources
- c. Inductor noise sources
- d. Resistor noise sources

2. (T/F) Noise gain is the same as signal gain.

- a. True
- b. False

3. Where is the noise voltage source located?

- a. Between the inputs
- b. At the non-inverting input
- c. At the output

4. To determine total rms noise, you must ____.

- a. Integrate the spectral density.
- b. Integrate noise power and take the square root of the result.

Quiz: Noise 2

5. How do you convert noise voltage spectral density to noise power density?

- a. Take the square root of the voltage spectral density.
- b. Square the voltage spectral density.
Integrate the voltage spectral density.
- c. Multiply the voltage density by 6.

6. How do you convert rms noise to peak-to-peak?

- a. Multiply by 3.
- b. Multiply by 6.
- c. Integrate noise power.
- d. Integrate noise spectral density.

7. What is the slope of the 1/f region in a voltage spectral density curve?

- a. $1/f$
- b. $1/\sqrt{f}$

Quiz: Noise

8. What are the two regions in the spectral density curve that are considered in most noise calculations?

- a. Burst noise, and current noise.
- b. rms noise, and peak-to-peak noise
- c. $1/f$ noise, and broadband noise
- d. 60Hz noise, and digital switching noise

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Multiple Choice Quiz: Solutions

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