

PSRR Quiz Problems

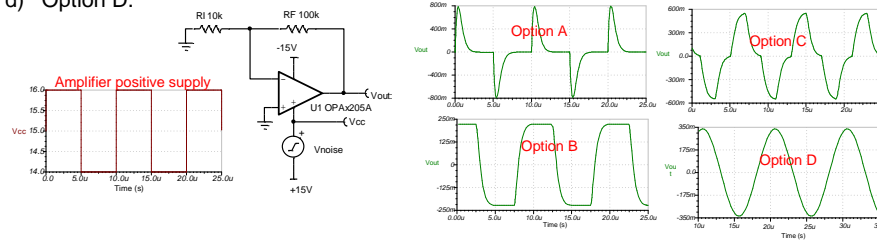
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Quiz: PSRR

1. (True/False) Variation in the op amp power supply voltage can cause error due to CMRR and PSRR.
 - a) True.
 - b) False.

Quiz: PSRR

2. Assume there is a square 100kHz noise signal on the power supply. What shape and amplitude will the output signal have?
- a) Option A.
 - b) Option B.
 - c) Option C.
 - d) Option D.



TI Information - Selective Disclosure

 TEXAS INSTRUMENTS

PSRR Quiz Solutions

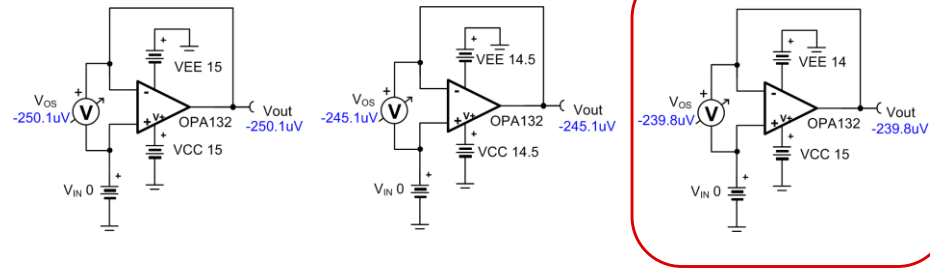
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Quiz: PSRR

1. (True/False) Variation in the op amp power supply voltage can cause error due to CMRR and PSRR.

a) True.

b) False.



TI Information – Selective Disclosure

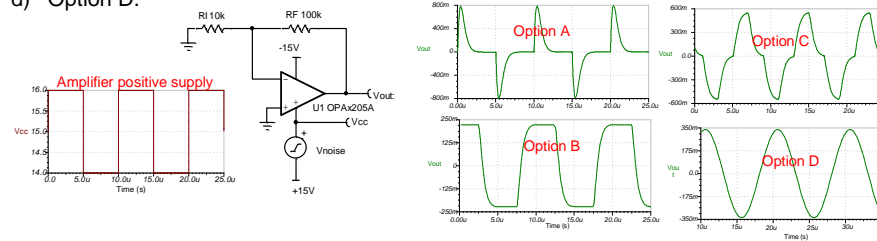
TEXAS INSTRUMENTS

The common mode input is relative to the power supply. Thus, a change in supply voltage, will often introduce a common mode voltage shift as well. The figure on the far right illustrates an example where the power supply change also shifts common mode.

Quiz: PSRR

2. Assume there is a square 100kHz noise signal on the power supply. What shape and amplitude will the output signal have?

- a) Option A.
- b) Option B.
- c) Option C.
- d) Option D.



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TEXAS INSTRUMENTS

The PSRR lecture explains that the PSRR curve over frequency effectively acts like a differentiator. When the supply switches like a square wave, the differentiated output will be a pulse on each edge of the square wave. You can simulate this for conformation.