

Bandwidth 2

Multiple Choice Quiz

TI Precision Labs – Op Amps



Quiz: Bandwidth 2

1. What happens to A_{OL} value below the dominant pole?

- a. A_{OL} decreases by 20 dB/decade
- b. A_{OL} decreases by 40 dB/decade
- c. A_{OL} increases by 20 dB/decade
- d. A_{OL} is the constant dc value

2. What happens to A_{OL} value above the dominant pole?

- a. A_{OL} decreases by 20 dB/decade
- b. A_{OL} decreases by 40 dB/decade
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3. Why does closed loop gain follow the A_{OL} curve at high frequencies?

- a. Because loop gain is small
- b. Because loop gain is large

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4. If the gain bandwidth product for an amplifier is 1MHz, and the closed loop gain is 10, what is the bandwidth?

- a. 1MHz
- b. 10MHz
- c. 100kHz
- d. 10kHz

5. Amplifiers with high bandwidth tend to have ____ quiescent current than amplifiers with low bandwidth?

- a. Higher
- b. Lower

6. Compare a CMOS to a Bipolar amplifier. Assume both amplifiers have the same quiescent current. Which will have the highest bandwidth?

- a. CMOS
- b. Bipolar

Quiz: Bandwidth 2

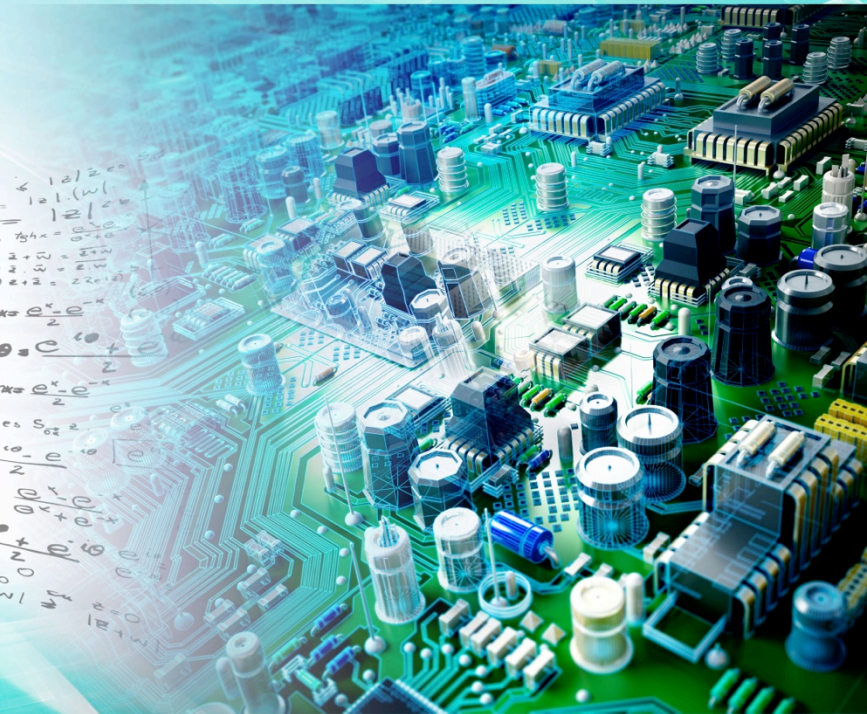
7. Looking at a wide range of different types of op amps, what is the range of bandwidth you would expect to see?

- a. 100Hz to 1MHz
- b. 100kHz to 1GHz
- c. 100MHz to 10GHz
- d. 10kHz to 500MHz

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Multiple Choice Quiz: Solutions

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