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**Open-Loop Gain** ..... 5

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**Differential Gain** ..... 5

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***Differential Gain*    *Open-Loop Gain*** ..... 5

..... 6

..... 6

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..... 6



# Open-Loop Gain

,  $A_{ol}$

OP-Amp

. Open-Loop Gain

OP-Amp

Open-Loop Gain

- Open-Loop Gain

$$A_{ol} = \frac{V_{out}}{V_+ - V_-}$$

- OP-Amp Open-Loop Gain ,  $10^5 \sim 10^7$  (100,000 ~ 10,000,000)

- 
- OP-Amp (Gain-Bandwidth Product) 가 OP-Amp

# Differential Gain

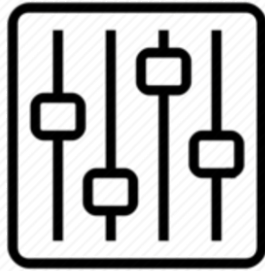
Differential Gain Op-Amp가 (  $V_+$   $V_-$  ) ( $V_+ - V_-$ )

- Op-Amp

$$A_{diff} = \frac{V_{out}}{V_+ - V_-}$$

# Differential Gain Open-Loop Gain

- Differential Gain:
- Open-Loop Gain: Op-Amp



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