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

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

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***Differential Gain*    *Open-Loop Gain*** ..... 6

..... 7

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..... 7



# Open-Loop Gain

,  $A_{ol}$

OP-Amp

. Open-Loop Gain

OP-Amp

Open-Loop Gain

- Open-Loop Gain

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

:

- $V_{out}$ ;
- $V_{input(dif)}$ ;

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

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

# Differential Gain

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

- Op-Amp

•

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

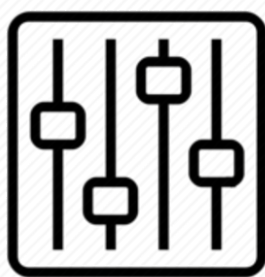
:

- $V_{out}$ ;

- $V_{input(dif)}$ :

## Differential Gain    Open-Loop Gain

- **Differential Gain:**
- **Open-Loop Gain:**                      [Op-Amp](#)



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