

# PSpice Model

## Operational Amplifier

### TI

### TL072CP

#### Model Information

**Model** An original macro model  
**Call Name** MDC\_TL072CP\_PS  
**Pin Assign** 1:Out 2:In- 3:In+ 4:V- 5:V+  
**File List** Model Library MDC\_TL072CP\_PS01.lib  
 Model Report MDC\_TL072CP\_PS.pdf (this file)  
**Verified Simulator Version** PSpice version 16.6  
**Note**

#### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version JUNE 2015
- Product name TL072CP
- Company name Texas Instruments Inc.
- Characteristics GainFreq.[Temp],PhaseFreq.[Temp],Voltage output swing,Input offset voltage,Input bias current

#### Simulation Condition

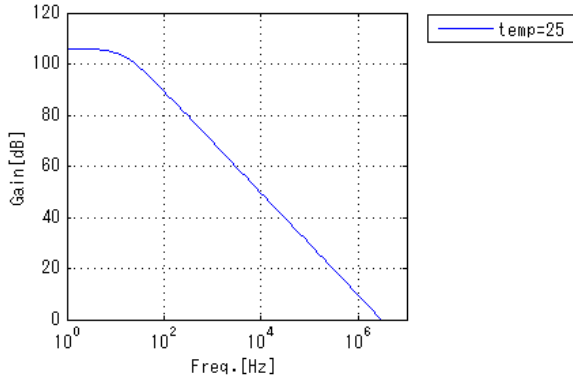
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.  
 Explanatory notes — : simulated

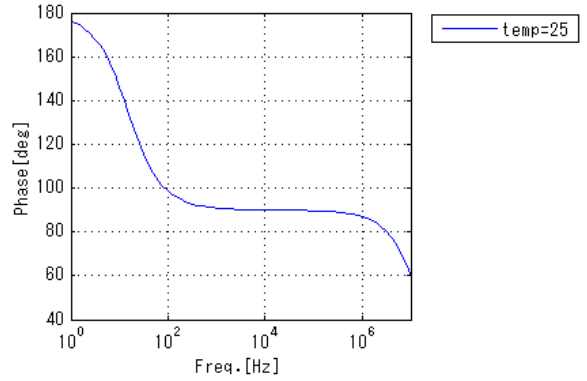
**GainFreq.[Temp]**

Vs+ = 15V, Vs- = -15V



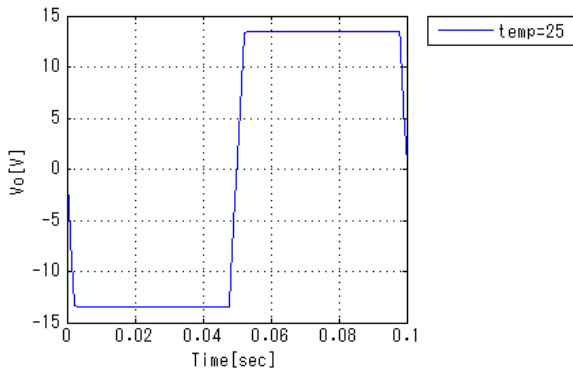
**PhaseFreq.[Temp]**

Vs+ = 15V, Vs- = -15V



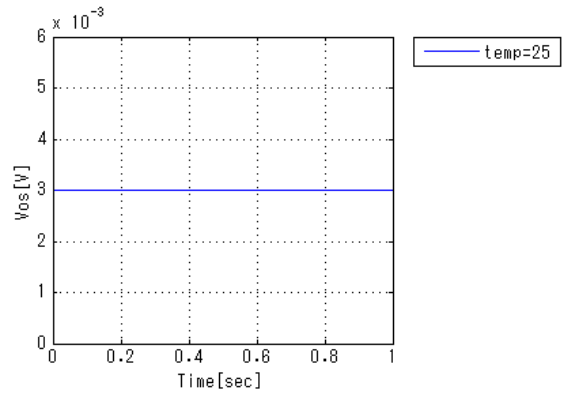
**Voltage output swing**

Vs+ = 15V, Vs- = -15V, RI = 10000ohm



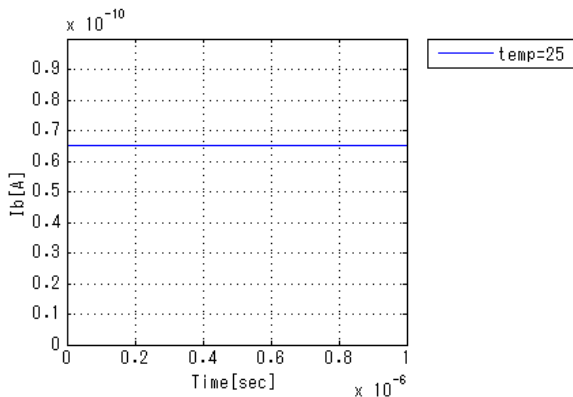
**Input offset voltage**

Vs+ = 15V, Vs- = -15V



**Input bias current**

Vs+ = 15V, Vs- = -15V



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