

PSpice Model

Operational Amplifier

TI

TLV272

Model Information

Model An original macro model
Call Name MDC_TLV272_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_TLV272_PS01.lib
 Model Report MDC_TLV272_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 NOVEMBER 2016
- Product name TLV272
- Company name Texas Instruments Inc.
- Characteristics GainFreq.[Temp],PhaseFreq.[Temp],Slew rate,Voltage output swing,Input offset voltage,Input bias current,Input referred voltage noise

Simulation Condition

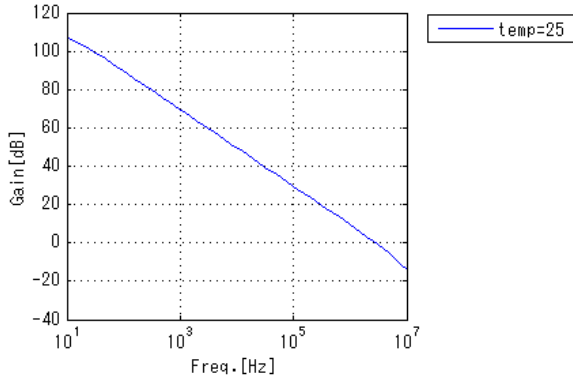
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

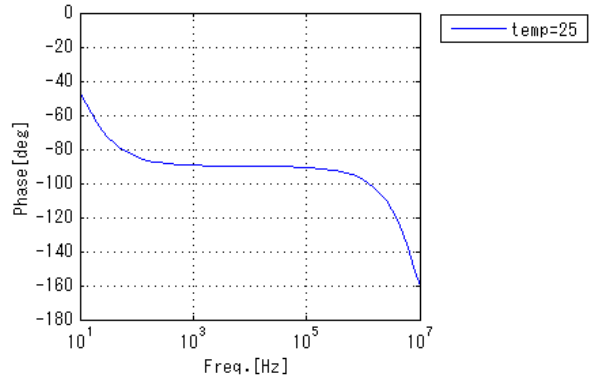
GainFreq.[Temp]

Vs+ = 5V, Vs- = 0V



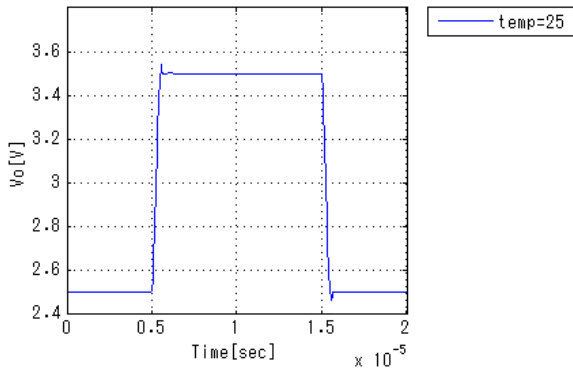
PhaseFreq.[Temp]

Vs+ = 5V, Vs- = 0V



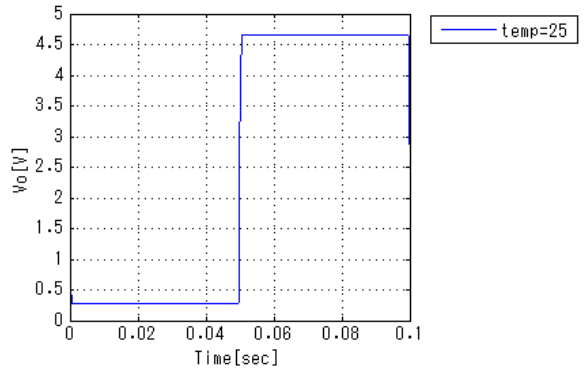
Slew rate

Vs+ = 5V, Vs- = 0V, Gain = 1



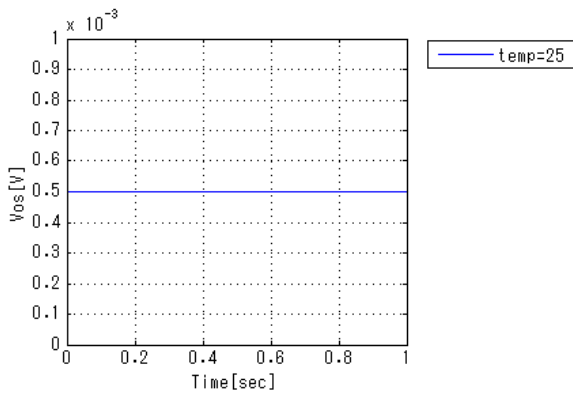
Voltage output swing

Vs+ = 5V, Vs- = 0V, RI = 2000ohm



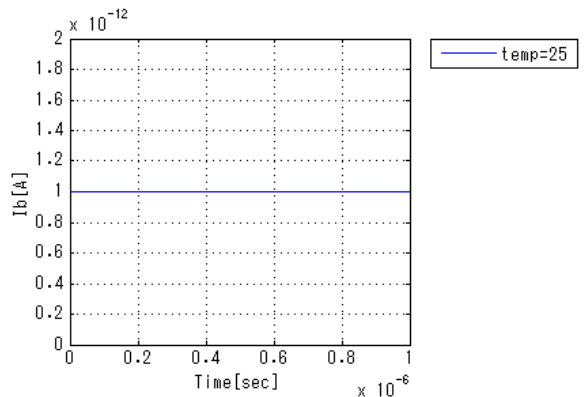
Input offset voltage

Vs+ = 5V, Vs- = -5V



Input bias current

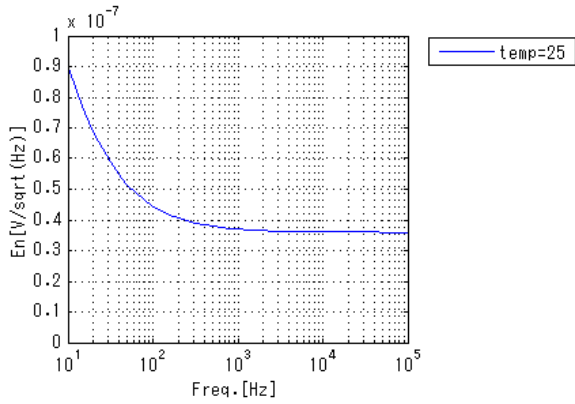
Vs+ = 5V, Vs- = 0V



Simulation results are following.
Explanatory notes — : simulated

Input referred voltage noise

$V_{s+} = 5V$, $V_{s-} = 0V$



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