

PSpice Model

Operational Amplifier

NewJRC

NJM4580

Model Information

Model An original macro model
Call Name MDC_NJM4580_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_NJM4580_PS01.lib
 Model Report MDC_NJM4580_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 Ver.2012-09-14
- Product name NJM4580
- Company name New Japan Radio Co.,Ltd.
- Characteristics GainFreq.[Temp],PhaseFreq.[Temp],Slew rate,Voltage output swing,Input offset voltage,Input bias current,Input referred voltage noise

Simulation Condition

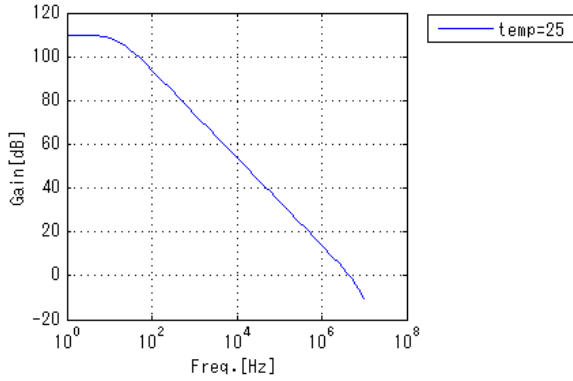
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

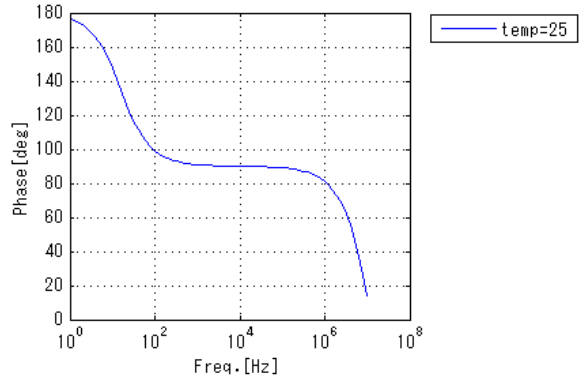
GainFreq.[Temp]

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



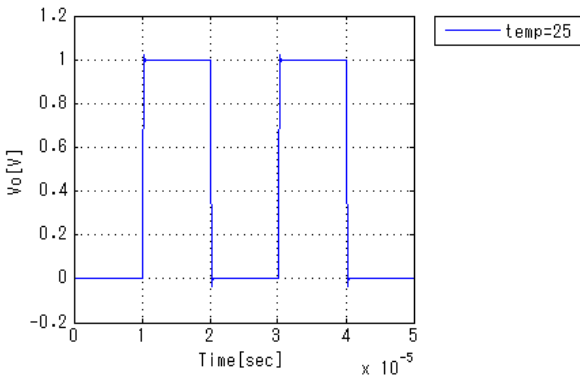
PhaseFreq.[Temp]

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



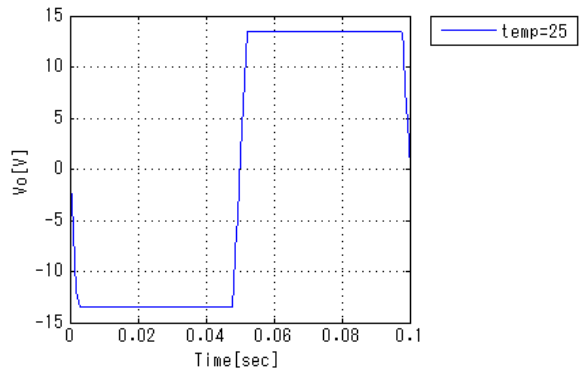
Slew rate

Vs+ = 15V, Vs- = -15V, Gain = 1



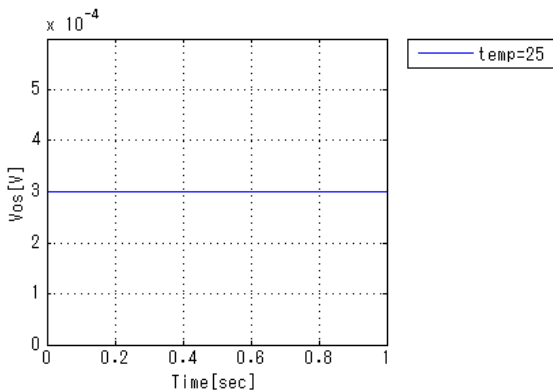
Voltage output swing

Vs+ = 15V, Vs- = -15V, RI = 2000ohm



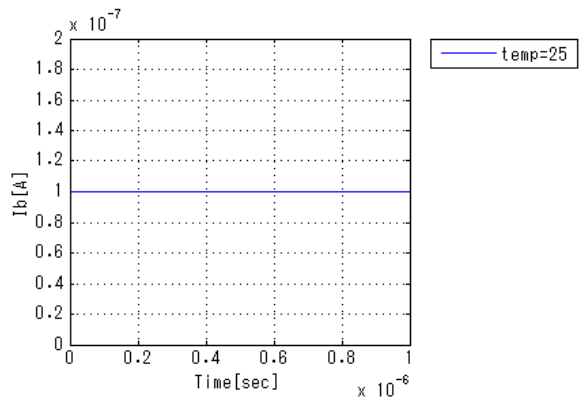
Input offset voltage

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



Input bias current

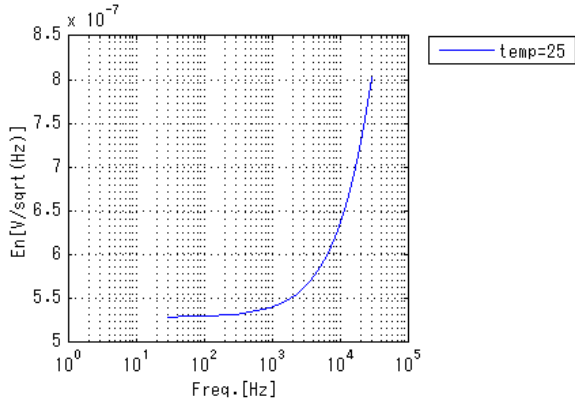
Vs+ = 15V, Vs- = -15V



Simulation results are following.
Explanatory notes — : simulated

Input referred voltage noise

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



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