

PSpice Model Operational Amplifier TI OPA1612

Model Information

Model An original macro model
Call Name MDC_OPA1612_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+

File List Model Library MDC_OPA1612_PS01.lib

Model Report MDC_OPA1612_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev. CProduct name OPA1612

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

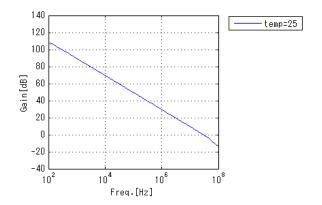


Simulation results are following.

Explanatory notes — : simulated

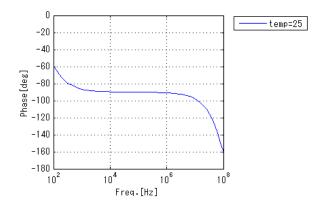
GainFreq.[Temp]

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



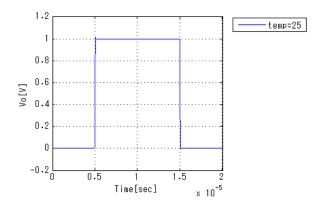
PhaseFreq.[Temp]

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



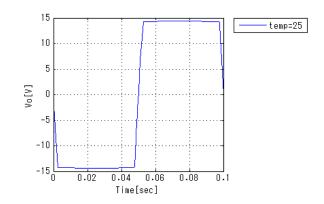
Slew rate

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



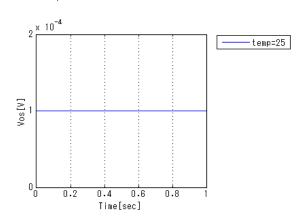
Voltage output swing

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



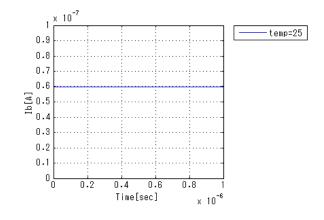
Input offset voltage

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



Input bias current

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

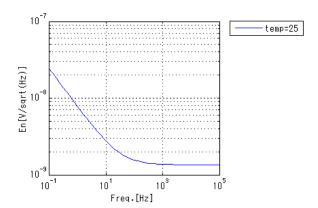




Simulation results are following. Explanatory notes — : simulated

Input referred voltage noise

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





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