

LTspice Model Operational Amplifier Texas Instruments Incorporated. TL974IPWR

Model Information

Model	A macro model		
Call Name	MDC_TL974IPWR_LT		
Pin Assign	1:OUT1 2:IN1- 3:IN1+ 4:VCC+ 5:IN2+ 6:IN2- 7:OUT2 8:OUT3 9:IN3- 10:IN3+ 11:VCC- 12:IN4+ 13:IN4- 14:OUT4		
File List	Model Library MDC_TL974IPWR_LT.lib		
	Model Report MDC_TL974IPWR_LT.pdf(this file)		
Verified Simula	ator Version LTspice XVII		
Note			

References

The information which was used for modeling is as follow:

[Data Sheet] • Date/Version • Product name

Company name

SLOS467H –OCTOBER 2006–REVISED JANUARY 2015 TL974IPWR Texas Instruments Incorporated.

[Characteristics listed] • Characteristics

Open Loop Gain Input offset voltage Output current limit Slew Rate Input Voltage Noise

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C



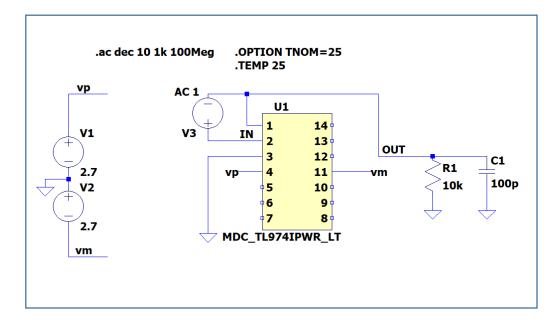
O: Implemented

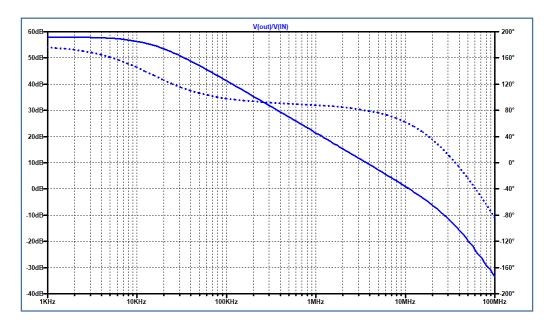
× : Not Implemented

	— : Not applicable	
Model Functions Table	RANK=1	. Not applicable
Functions	RANK	Implemented
Open Loop Gain	1	0
Unity Frequency	1	0
Phase Margin	1	0
Input Offset Voltage	1	0
Input Offset Current	1	—
Bias Current	1	—
Maximum output amplitude voltage	1	0
Slew Rate	1	0
Equivalent Input Noise Voltage	2	0
Equivalent Input Noise Current	2	_



Open Loop Gain TestBench

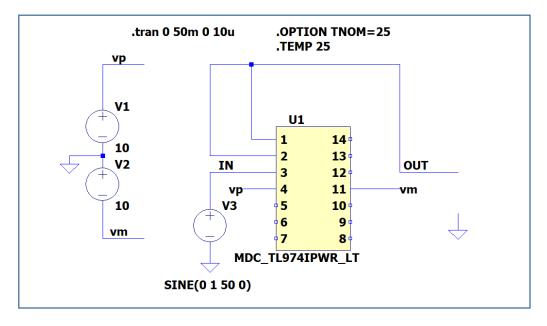


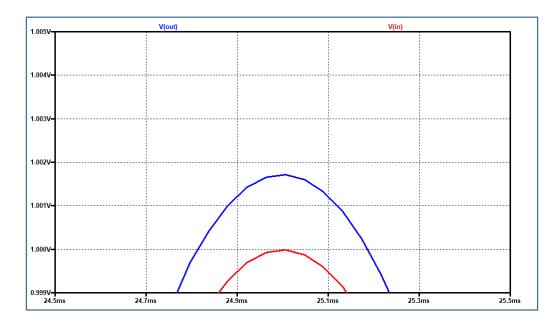


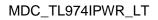


Input offset voltage

TestBench



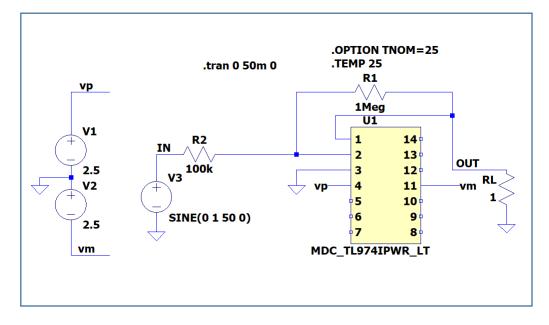


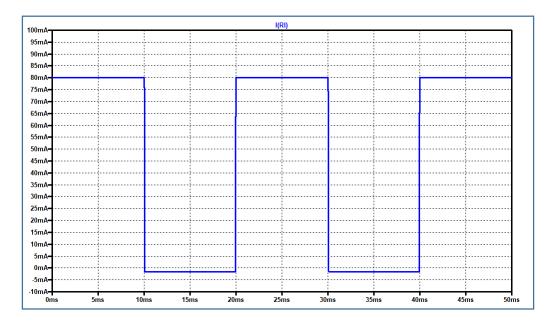




Output current limit

TestBench

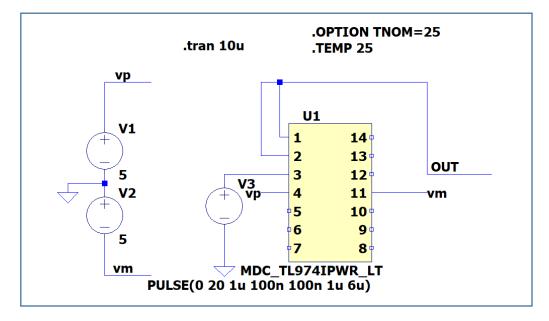


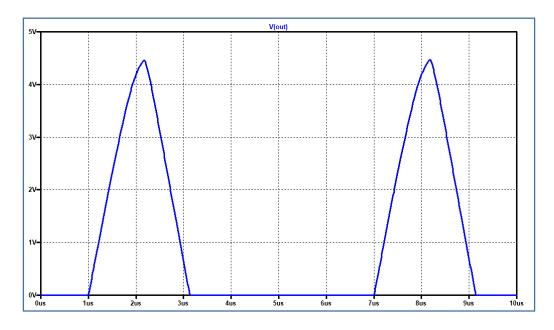




Slew rate

TestBench

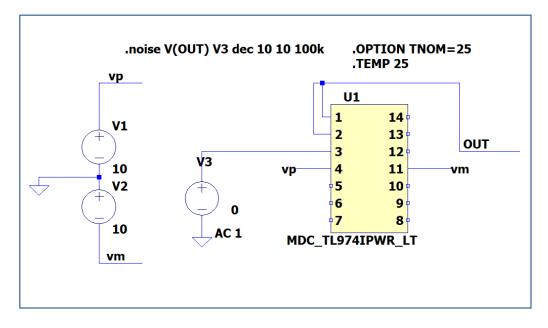


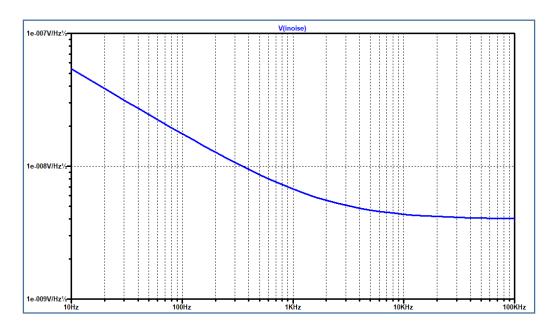




Equivalent Input Noise Voltage

TestBench







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