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Moore's Lobby Podcast

Changing the World One Wireless RF Chip at a Time

0:00 / 0:00

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- Latest

- Microchip's New Plug-and-Play Bluetooth Solutions Lower RF Design Barriers
 - Nvidia, Qualcomm, and MediaTek Showcase AI Processors at Computex 2024
 - Intel Makes Way for the AI PC Era With New Lunar Lake Architecture
 - Speeding Derivative SoC Designs With Networks-on-Chips

- News

- Microchip's New Plug-and-Play Bluetooth Solutions Lower RF Design Barriers
 - Nvidia, Qualcomm, and MediaTek Showcase AI Processors at Computex 2024
 - Intel Makes Way for the AI PC Era With New Lunar Lake Architecture
 - Efabless Welcomes Weebit Nano's ReRAM to Its Custom Chip Design Platform

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- Using Clever Techniques to Convert a Passive Audio Filter Into an Active Filter
 - Shake It Off! A Digital Drawing Pad Inspired by the Iconic Etch A Sketch
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 - Using a Raspberry Pi Pico to Enhance a Vintage Radio Shack Microcomputer Kit

- Technical Articles

- Using Advanced SPICE models to Characterize an NMOS Transistor
- Using Complex Permeability to Characterize Magnetic Core Losses
- Simulating the Short-Circuit Power Dissipation of a CMOS Inverter
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 - How To Use SMT Adapter Modules for Advanced IC Package Transitioning
 - A Guide to Effective Probe Selection for Low Noise Power Integrity Measurements
- Industry White Papers
 - How Can Bluetooth® Technology Enable Digital Transformation Across the Industrial IoT?
 - Advanced Embedded Systems Debug with Jitter and Real-Time Eye Analysis
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 - EA Elektro-Automatik's Future-Proof Battery Cycler and Test System Adapts to Evolving EV Battery Technologies
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 - 555 timer Astable Mode output Voltage

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- Textbooks

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- Learn the basic concepts of direct current (DC), circuit laws, electrical safety, and testing.

- **Alternating Current (AC)**

- Learn the fundamentals of alternating current (AC), impedance, motors, and transmission lines.

- **Semiconductors**

- Introduction to transistors, diodes, solid-state device theory, and semiconductor circuits.

- **Digital Logic and Circuits**

- Discover binary number systems, Boolean algebra, digital circuits, computation, and memory.

- **Quick Reference Guides**

- Collection of helpful resources: equations, resistor color codes, basic math, circuit simulation, and troubleshooting.

- **DIY Electronics Projects**

- Hands-on electronics experiments covering DC and AC circuits, analog and digital circuits, and semiconductors.

- Video Lectures & Tutorials

- **Electronic Systems**

- Representative systems, system notation, connectivity, and system level troubleshooting.

- **Basic Electronics and Units of Measure**

- The fundamental concepts, terms, and units of measure common to all electronics.

- **Basic Components and Technical Notation**

Learn about basic electronic components and technical notation.

- **Circuits**

Understanding the application and principles of circuits.

- **Circuit Troubleshooting**

Strategies to diagnose malfunctioning systems and identify specific defects in circuits.

- **Alternating Current**

The Importance of alternating current in electrical and electronic systems.

- Worksheets

- **Basic Electricity**

Voltage, current, resistance and other basic concepts of electricity.

- **DC Electric Circuits**

The unidirectional flow of an electric charge and its role in DC circuits.

- **AC Electric Circuits**

The fundamental relationship between voltage, current and resistance in AC Circuits.

- **Network Analysis Techniques**

Analysis of complex working procedures of AC and DC circuits.

- **Discrete Semiconductor Devices and Circuits**

Diodes, transistors, rectifiers, thyristors and more.

■ Analog Integrated Circuits

Circuits dealing with signals free to vary from zero to full power supply voltage.

○ Industry Webinars

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○ Virtual Workshops

■ Industry Virtual Workshop: Using Accelerometers Made for Industry 4.0 and Smart Factories

● Tools

○ Calculators

■ View All Calculators

■ Analog

■ Connectors

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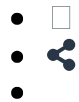
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PCB Layout , EDA & Simulations

how to add OP amp 741 to LT spice



□ HomeForumsHardware DesignPCB Layout , EDA & Simulations

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 andhavarapu lokesh ·  Aug 17, 2017

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Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 17, 2017

#1

hello everyone

Can anyone tell me how to add OP amp 741 to LT spice simulation tool

 Jabari, itsnsreehari, Mohamed K and 2 others

 [Like](#)

**crutschow**

Joined Mar 14, 2008 34,782

Aug 17, 2017

#2

For LTspice IV:

Put the .lib file in *C:\Program Files (x86)\LTC\LTspiceIV\lib\sub*.

Put the .asy file in *C:\Program Files (x86)\LTC\LTspiceIV\lib\sym\Opamps*

Attachments

**LM741.lib**

2.6 KB Views: 10,769

**LM741.ASY**776 bytes
Views: 10,263

Call me Zapper -- (Curmudgeon Elektroniker)

--The important thing about having knowledge is knowing where it correctly applies.--

[My circuit collection.](#)

□ Ashukmr, yankiiiiiiiiiii, chronicblade and 32 others

□ [Like](#)



Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 17, 2017

#3

Thank you very much for reply

□ itsnsreehari

□ [Like](#)



Thread Starter
andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 17, 2017

#4

crutschow said:

Fafor LTspice IV:

Put the .lib file in C:\Program Files (x86)\LTC\LTspiceIV\lib\sub.

Put the .asy file in C:\Program Files (x86)\LTC\LTspiceIV\lib\sym\Opamps

after downloading and adding to that folder what should i do i couldnot see the LM741 in that opamp folder of LT SPICE Directive

itsnsreehari and ThamiNxele

Like



crutschow

Joined Mar 14, 2008 34,782

Aug 17, 2017

#5

Did you close and reopen LTspice?

It should be there if you put the .asy file in the sym\Opamps folder.

Call me Zapper -- (Curmudgeon Elektroniker)

--The important thing about having knowledge is knowing where it correctly applies.--

[My circuit collection.](#)

itsnsreehari

[Like](#)



Alec_t

Joined Sep 17, 2013 14,392
Aug 17, 2017

#6

Are you using LTS version IV or XVII? Version XVII reads its data from the/Documents/LTspice/lib path when using Windows10.

Last edited: Aug 17, 2017

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

+V+, danton_ufpi, itsnsreehari and 2 others

[Like](#)



Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46
Aug 17, 2017

#7

Alec t said:

Are you using LTS version IV or VII? Version VII reads its data from the/Documents/LTspice/lib path when using Windows10.

yes i am using windows 10 and LTSPICE XVII

itsnsreehari

☐ [Like](#)



Alec_t

Joined Sep 17, 2013 14,392

Aug 17, 2017

#8

Then put your .lib file in the Users/...../Documents/LTspice XVII/lib/sub folder and put the .asy file in the Users/...../Documents/LTspice XVII/lib/sym/opamps folder.

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

☐ SudokuMann, itsnsreehari, Eagle1903 and 6 others

☐ [Like](#)



Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 17, 2017

#9

Alec t said: 

Then put your .lib file in the Users/...../Documents/LTspice XVII/lib/sub folder and put the .asy file in the Users/...../Documents/LTspice XVII/lib/sym/opamps folder.

Thank you i will update you

 [Like](#)



Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 18, 2017

#10

Hi sir i copied the .lib, .asy files according how you said even though i am not able to see the component in opamp folder

 [Like](#)



Alec_t

Joined Sep 17, 2013 14,392

Aug 18, 2017

#11

If you copied the file correctly and scroll through the C:\Users\User\Documents\LTspiceXVII\lib\sym\opamps\ folder you should see it.

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

[Like](#)

Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 18, 2017

#12

Alec t said:

If you copied the file correctly and scroll through the C:\Users\User\Documents\LTspiceXVII\lib\sym\opamps\ folder you should see it.

Attachments



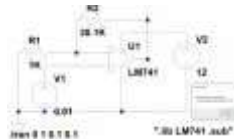
Capture.PNG

40.3 KB Views: 748



LM741opampfold...

44.5 KB Views: 878



Capture2_andhav...

39.8 KB Views: 958

[Like](#)

**Alec_t**

Joined Sep 17, 2013 14,392

Aug 18, 2017

#13

Remove the quotes characters surrounding the **.lib** command on the schematic.

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

☐ [Like](#)

Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 18, 2017

#14

Alec t said:

Remove the quotes characters surrounding the **.lib** command on the schematic.

thank you sir

☐ [Like](#)

E

eetech00

Joined Jun 8, 2013 4,032

Aug 18, 2017

#15

Hi

Change the statement to:

`.lib LM741.lib`☐ [Like](#)


Thread Starter

andhavarapu lokesh

Joined Aug 17, 2017 46

Aug 19, 2017

#16

eetech00 said: 

Hi

Change the statement to:

`.lib LM741.lib`

i am getting error like can not be open 741.lib even i change to .lib LM741.lib

[Like](#)**Alec_t**

Joined Sep 17, 2013 14,392

Aug 19, 2017

#17

In post #12 you show the wrong_path for the file that LTspiceXVII uses.

> This PC > Local Disk (C:) > Program Files > LTC > LTspiceXVII > lib > sym > Opamps

This is where the file needs to be :-

> This PC > Documents > LTspiceXVII > lib > sym > Opamps

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

□ alpacasheep and djsfantasi

[Like](#)**E****eetech00**

Joined Jun 8, 2013 4,032

Aug 19, 2017

#18

Hi

Post #17 is the correct default path for the .asy symbol file.

The correct default path for the .lib file is:

This PC->Documents->Program Files->LTC->LTspiceXVII->lib->sub

The statement shown in post #15 is correct for the default .lib file path.

☐ [Like](#)



Alec_t

Joined Sep 17, 2013 14,392

Aug 19, 2017

#19

In Win10, LTspiceXVII installs the .asy files and the sub files in default (or user-specified) locations, but (as far as I can tell) only reads from shadow copies in folders in the Documents path.

My circuit designs are experimental. They are tested by simulation; not built. Component modifications/additions may be needed in a practical circuit. **Due precautions must be taken for any circuit involving mains voltage or static-sensitive components.**

Alec's First Law:- Every problem has a solution (given the right information and resources).

☐ platapoes

☐ [Like](#)



Thread Starter
andhavarapu lokesh
Joined Aug 17, 2017 46
Aug 21, 2017

#20

Alec t said:

In Win10, LTspiceXVII installs the .asy files and the sub files in default (or user-specified) locations, but (as far as I can tell) only reads from shadow copies in folders in the Documents path.




Thank you everyone i sorted out my mistake

Like

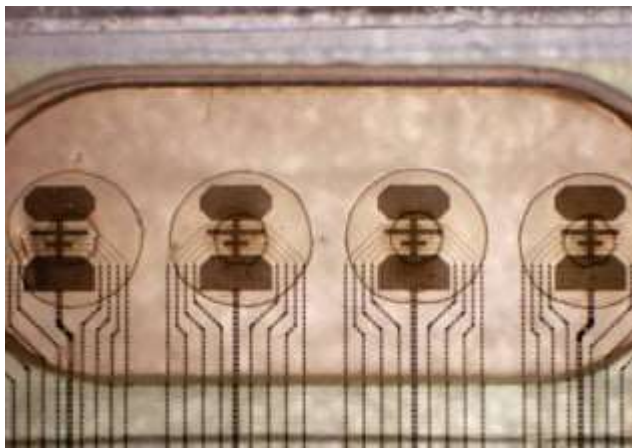
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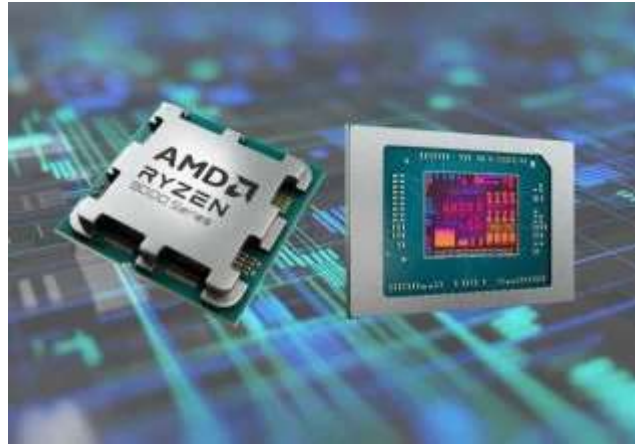
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