

LMC7101

Tiny Low Power Operational Amplifier with Rail-To-Rail Input and Output

General Description

The LMC7101 is a high performance CMOS operational amplifier available in the space saving SOT 23-5 Tiny package. This makes the LMC7101 ideal for space and weight critical designs. The performance is similar to a single amplifier of the LMC6482/4 type, with rail-to-rail input and output, high open loop gain, low distortion, and low supply currents.

The main benefits of the Tiny package are most apparent in small portable electronic devices, such as mobile phones, pagers, notebook computers, personal digital assistants, and PCMCIA cards. The tiny amplifiers can be placed on a board where they are needed, simplifying board layout.

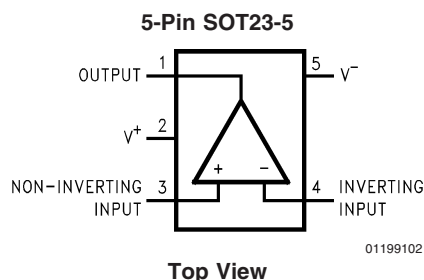
Features

- Tiny SOT23-5 package saves space—typical circuit layouts take half the space of SO-8 designs
- Guaranteed specs at 2.7V, 3V, 5V, 15V supplies
- Typical supply current 0.5 mA at 5V
- Typical total harmonic distortion of 0.01% at 5V
- 1.0 MHz gain-bandwidth
- Similar to popular LMC6482/4
- Input common-mode range includes V^- and V^+
- Tiny package outside dimensions—120 x 118 x 56 mils, 3.05 x 3.00 x 1.43 mm

Applications

- Mobile communications
- Notebooks and PDAs
- Battery powered products
- Sensor interface

Connection Diagram

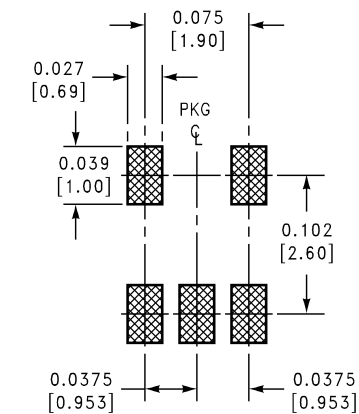
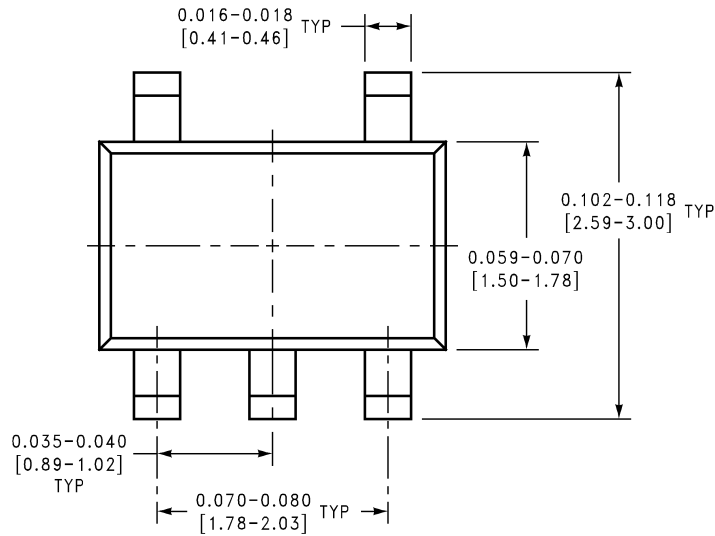


Ordering Information

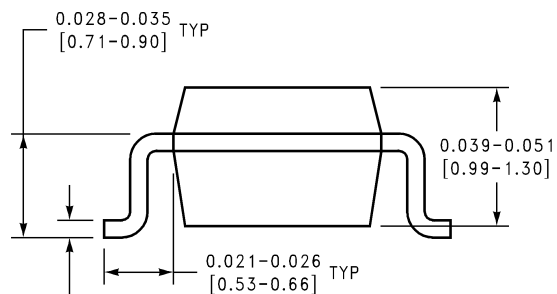
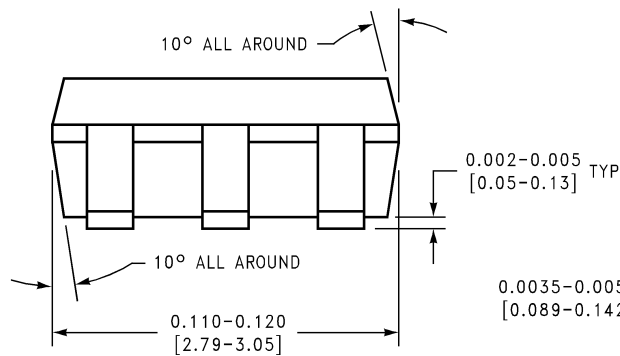
Package	Ordering Information	NSC Drawing Number	Package Marking	Supplied As
5-Pin SOT 23-5	LMC7101AIM5	MA05A	A00A	1k Units on Tape and Reel
	LMC7101AIM5X	MA05A	A00A	3k Units Tape and Reel
	LMC7101BIM5	MA05A	A00B	1k Units on Tape and Reel
	LMC7101BIM5X	MA05A	A00B	3k Units Tape and Reel

Physical Dimensions inches (millimeters)

unless otherwise noted



LAND PATTERN RECOMMENDATION



MA05A (REV D)

5-Pin SOT Package

Order Number LMC7101AIM5, LMC7101AIM5X, LMC7101BIM5 or LMC7101BIM5X
NS Package Number MA05A

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