



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20240930007.1**  
**Datasheet for LMC648x**

**Change Notification**

**Date:** October 01, 2024

Dear Customer:

This is a notice of change to a product data sheet for a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team  
SC Business Services

**20240930007.1**  
**Data Sheet Change Notification**  
**Attachments**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

| DEVICE           | CUSTOMER PART NUMBER |
|------------------|----------------------|
| LMC6482AIMX/NOPB | NULL                 |
| LMC6482AIN/NOPB  | NULL                 |
| LMC6482IMMX/NOPB | NULL                 |
| LMC6482IMX/NOPB  | NULL                 |
| LMC6482IN/NOPB   | NULL                 |
| LMC6484AIMX/NOPB |                      |
| LMC6484AIMX/NOPB | NULL                 |
| LMC6484AIN/NOPB  | NULL                 |
| LMC6484IMX/NOPB  | NULL                 |
| LMC6484IN/NOPB   | NULL                 |

Technical details of this Product Change follow on the next page(s).

|                                           |                           |                                     |                    |                          |                     |
|-------------------------------------------|---------------------------|-------------------------------------|--------------------|--------------------------|---------------------|
| <b>PCN Number:</b>                        | 20240930007.1             |                                     |                    | <b>PCN Date:</b>         | October 01, 2024    |
| <b>Title:</b>                             | Datasheet for LMC648x     |                                     |                    |                          |                     |
| <b>Customer Contact:</b>                  | Change Management team    | <b>Dept:</b>                        | Quality Services   |                          |                     |
| <b>Proposed 1<sup>st</sup> Ship Date:</b> | December 30, 2024         |                                     |                    |                          |                     |
| <b>Change Type:</b>                       |                           |                                     |                    |                          |                     |
| <input type="checkbox"/>                  | Assembly Site             | <input type="checkbox"/>            | Design             | <input type="checkbox"/> | Wafer Bump Material |
| <input type="checkbox"/>                  | Assembly Process          | <input checked="" type="checkbox"/> | Datasheet          | <input type="checkbox"/> | Wafer Bump Process  |
| <input type="checkbox"/>                  | Assembly Materials        | <input type="checkbox"/>            | Part number change | <input type="checkbox"/> | Wafer Fab Site      |
| <input type="checkbox"/>                  | Mechanical Specification  | <input type="checkbox"/>            | Test Site          | <input type="checkbox"/> | Wafer Fab Materials |
| <input type="checkbox"/>                  | Packing/Shipping/Labeling | <input type="checkbox"/>            | Test Process       | <input type="checkbox"/> | Wafer Fab Process   |

  

| PCN Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>Description of Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <p>The product datasheet(s) is being updated as summarized below.<br/> The following change history provides further details.</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  </div> <div style="text-align: right;"> <b>LMC6482</b><br/> <b>LMC6484</b><br/> <small>SNOS674J – OCTOBER 1997 – REVISED SEPTEMBER 2024</small> </div> </div> <table border="1" style="width: 100%;"> <thead> <tr> <th>Changes from Revision I (February 2024) to Revision J (September 2024)</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Updated front page figure, <i>Unity-Gain Difference Amplifier</i>, to swap IN+ and IN–.....</td> <td>1</td> </tr> <tr> <td>• Changed LMC648xI common-mode rejection ratio MIN from 65dB to 60dB for 5V supply and from 60dB to 55dB for 3V supply.....</td> <td>6</td> </tr> <tr> <td>• Changed common-mode rejection ratio MIN for LMC648xI from 60dB to 58dB for T<sub>A</sub> = –40°C to +85°C.....</td> <td>6</td> </tr> <tr> <td>• Changed LMC648xAI common-mode rejection ratio MIN from 64dB to 60dB for 3V supply.....</td> <td>9</td> </tr> <tr> <td>• Updated Figure 7-17, <i>Half-Wave Rectifier With Input Current Protection (R<sub>i</sub>)</i> to illustrate correct circuit.....</td> <td>25</td> </tr> </tbody> </table> |                  | Changes from Revision I (February 2024) to Revision J (September 2024) | Page            | • Updated front page figure, <i>Unity-Gain Difference Amplifier</i> , to swap IN+ and IN–..... | 1       | • Changed LMC648xI common-mode rejection ratio MIN from 65dB to 60dB for 5V supply and from 60dB to 55dB for 3V supply..... | 6               | • Changed common-mode rejection ratio MIN for LMC648xI from 60dB to 58dB for T <sub>A</sub> = –40°C to +85°C..... | 6 | • Changed LMC648xAI common-mode rejection ratio MIN from 64dB to 60dB for 3V supply..... | 9 | • Updated Figure 7-17, <i>Half-Wave Rectifier With Input Current Protection (R<sub>i</sub>)</i> to illustrate correct circuit..... | 25 |
| Changes from Revision I (February 2024) to Revision J (September 2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Page             |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| • Updated front page figure, <i>Unity-Gain Difference Amplifier</i> , to swap IN+ and IN–.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| • Changed LMC648xI common-mode rejection ratio MIN from 65dB to 60dB for 5V supply and from 60dB to 55dB for 3V supply.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| • Changed common-mode rejection ratio MIN for LMC648xI from 60dB to 58dB for T <sub>A</sub> = –40°C to +85°C.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6                |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| • Changed LMC648xAI common-mode rejection ratio MIN from 64dB to 60dB for 3V supply.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9                |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| • Updated Figure 7-17, <i>Half-Wave Rectifier With Input Current Protection (R<sub>i</sub>)</i> to illustrate correct circuit.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25               |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <p>The datasheet number will be changing.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Device Family</th> <th>Change From:</th> <th>Change To:</th> </tr> </thead> <tbody> <tr> <td>LMC648x</td> <td>SNOS674I</td> <td><b>SNOS674J</b></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | Device Family                                                          | Change From:    | Change To:                                                                                     | LMC648x | SNOS674I                                                                                                                    | <b>SNOS674J</b> |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| Device Family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Change From:     | Change To:                                                             |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| LMC648x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SNOS674I         | <b>SNOS674J</b>                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <p>These changes may be reviewed at the datasheet links provided.<br/> <a href="http://www.ti.com/product/LMC6482">http://www.ti.com/product/LMC6482</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <b>Reason for Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| To accurately reflect device characteristics. The datasheet update is driven by the changes announced on PCN 20240930009.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| Electrical specification performance changes as indicated above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <b>Changes to product identification resulting from this PCN:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| <b>Product Affected:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| Devices affected by changes in PCN 20240930009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| LMC6482AIMX/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LMC6484AIMX/NOPB | LMC6482AIN/NOPB                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| Datasheet Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                        |                 |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |
| LMC6484IMX/J7000533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LMC6484IN/NOPB   | LMC6482IMMX/NOPB                                                       | LMC6482IMX/NOPB |                                                                                                |         |                                                                                                                             |                 |                                                                                                                   |   |                                                                                          |   |                                                                                                                                    |    |

|                |                 |                 |  |
|----------------|-----------------|-----------------|--|
| LMC6482IN/NOPB | LMC6484IMX/NOPB | LMC6484AIN/NOPB |  |
|----------------|-----------------|-----------------|--|

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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