



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20240813005.1
Datasheet for OPAx131
Change Notification

Date: August 28, 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

20240813005.1
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
OPA131U	NULL
OPA131UA	NULL
OPA131UA/2K5	NULL
OPA131UJ	NULL
OPA131UJ/2K5	NULL
OPA2131UA	NULL
OPA2131UA/2K5	NULL
OPA2131UJ	NULL
OPA2131UJ/2K5	NULL
OPA4131NA	NULL
OPA4131NJ	NULL
OPA4131PA	NULL
OPA4131PJ	NULL
OPA4131UA	NULL
OPA4131UA/1K	NULL

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

PCN Number:	20240813005.1		PCN Date:	August 28, 2024
Title:	Datasheet for OPAx131			
Customer Contact:	Change Management team	Dept:	Quality Services	
Proposed 1st Ship Date:	November 26, 2024			
Change Type:				
☐	Assembly Site	☐	Design	☐
☐	Assembly Process	☒	Data Sheet	☐
☐	Assembly Materials	☐	Part number change	☐
☐	Mechanical Specification	☐	Test Site	☐
☐	Packing/Shipping/Labeling	☐	Test Process	☐
☐		☐	Wafer Bump Material	
☐		☐	Wafer Bump Process	
☐		☐	Wafer Fab Site	
☐		☐	Wafer Fab Materials	
☐		☐	Wafer Fab Process	

PCN Details

Description of Change:

The product datasheet(s) is being updated as summarized below.
The following change history provides further details.



OPA131, OPA2131, OPA4131

SBOS040B – NOVEMBER 1994 – REVISED JULY 2024

Changes from Revision A (December 2002) to Revision B (July 2024)	Page
• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Added the <i>Device Information</i> table, and the <i>Applications, Pin Configuration and Functions, Specifications, Recommended Operating Conditions, Thermal Information, Application and Implementation, Typical Application, Device and Documentation Support, and Mechanical, Packaging, and Orderable Information</i> sections.....	1
• Updated <i>Description</i>	1
• Deleted obsolete PDIP packages for OPA131 and OPA2131.....	3
• Updated input voltage in <i>Absolute Maximum Ratings</i>	6
• Added input current and related footnote to <i>Absolute Maximum Ratings</i>	6
• Changed format of <i>Electrical Characteristics</i> to latest standard.....	8
• Updated nominal conditions in the header of <i>Electrical Characteristics</i>	8
• Deleted channel separation specification.....	8
• Updated common-mode voltage MAX value.....	8
• Updated common-mode rejection ratio and common-mode input impedance test conditions.....	8
• Changed differential input impedance from $10^{10}\Omega \parallel 1\text{pF}$ to $10^{10}\Omega \parallel 5\text{pF}$	8
• Changed common-mode input impedance from $10^{10}\Omega \parallel 3\text{pF}$ to $10^{10}\Omega \parallel 4.3\text{pF}$	8
• Updated open loop voltage gain MIN and TYP values for $R_L = 10\text{k}\Omega$ and $R_L = 2\text{k}\Omega$	8
• Updated settling time test condition.....	8
• Moved voltage output negative MIN values to MAX values.....	8
• Deleted note 1 from <i>Electrical Characteristics</i>	8
• Updated Figure 5-15, <i>Small-Signal Overshoot vs Load Capacitance</i>	9
• Updated text in <i>Offset Voltage Trim</i>	12
• Changed Figure 1, OPA130 Offset Voltage Trim Circuit, to Figure 6-1, Second-Order Low-Pass Filter.....	12
• Updated <i>Input Bias Current</i> description.....	12

The datasheet number will be changing.

Device Family	Change From:	Change To:
OPAx131	SBOS040A	SBOS040B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/OPA131>

Reason for Change:			
To accurately reflect device characteristics. The datasheet changes were driven by the changes announced in PCN 20240202010			
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):			
Electrical specification performance changes as indicated above.			
Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
OPA131U	OPA131UA	OPA131UA/2K5	OPA131UJ
OPA131UJ/2K5	OPA2131UA	OPA2131UA/2K5	OPA2131UA/2K5G4
OPA2131UAE4	OPA2131UAG4	OPA2131UJ	OPA2131UJ/2K5
OPA4131NA	OPA4131NJ	OPA4131PA	OPA4131PAG4
OPA4131PJ	OPA4131UA	OPA4131UA/1K	

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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