



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20260611002.1
Datasheet for TL05x, TL3472, TLC27xx
Change Notification

Date: June 18, 2026
To: Newark/Farnell PCN

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 **60** days of the date of this notice. Lack of acknowledgement of this notice within 60 days constitutes acceptance and approval of this change.

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

20260611002.1
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
TLC272CDR	NULL
TLC272ACP	NULL
TLC272BCP	NULL

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

PCN Number:	20260611002.1		PCN Date:	June 18, 2026
Title:	Datasheet for TL05x, TL3472, TLC27xx			
Customer Contact:	Change Management team	Dept:	Quality Services	
Proposed 1st Ship Date:	September 16, 2026			
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.																															
 TL051, TL051A, TL052 TL052A, TL054, TL054A SLOS178B – JANUARY 1997 – REVISED JANUARY 2026 <table border="1"> <thead> <tr> <th>Changes from Revision A (February 2003) to Revision B (January 2026)</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>• Deleted "Precision grades are available (1.5mV, TL051A)"</td> <td>1</td> </tr> <tr> <td>• Changed BIFET to FET</td> <td>1</td> </tr> <tr> <td>• Deleted "Faster slew rate (20V/μs typ) without increased power consumption.....</td> <td>1</td> </tr> <tr> <td>• Changed JFET to FET.....</td> <td>1</td> </tr> <tr> <td>• Deleted Trimming function details.....</td> <td>1</td> </tr> <tr> <td>• Deleted Bipolar and CMOS power consumption comparison.....</td> <td>1</td> </tr> <tr> <td>• Updated Pin1 and Pin5 from OFFSET1 and OFFSET2 to NC</td> <td>3</td> </tr> <tr> <td>• Combined Single, dual and quad channel electrical characteristics.....</td> <td>6</td> </tr> <tr> <td>• Changed Input Offset Current value from 4pA to 10pA for 5V and 5pA to 10pA for 15V.....</td> <td>6</td> </tr> <tr> <td>• Changed Input Noise at 10Hz from 70nV/√Hz to 50nV/√Hz and at 1kHz from 18nV/√Hz to 10.8nV/√Hz.....</td> <td>6</td> </tr> <tr> <td>• Changed Crosstalk Attenuation value from 120dB to 106dB.....</td> <td>6</td> </tr> <tr> <td>• Updated Large-signal differential voltage amplification section values.....</td> <td>6</td> </tr> <tr> <td>• Combined Single, dual and quad channel electrical characteristics.....</td> <td>9</td> </tr> <tr> <td>• Updated Large-signal differential voltage amplification section values.....</td> <td>9</td> </tr> </tbody> </table>		Changes from Revision A (February 2003) to Revision B (January 2026)	Page	• Deleted "Precision grades are available (1.5mV, TL051A)"	1	• Changed BIFET to FET	1	• Deleted "Faster slew rate (20V/μs typ) without increased power consumption.....	1	• Changed JFET to FET.....	1	• Deleted Trimming function details.....	1	• Deleted Bipolar and CMOS power consumption comparison.....	1	• Updated Pin1 and Pin5 from OFFSET1 and OFFSET2 to NC	3	• Combined Single, dual and quad channel electrical characteristics.....	6	• Changed Input Offset Current value from 4pA to 10pA for 5V and 5pA to 10pA for 15V.....	6	• Changed Input Noise at 10Hz from 70nV/√Hz to 50nV/√Hz and at 1kHz from 18nV/√Hz to 10.8nV/√Hz.....	6	• Changed Crosstalk Attenuation value from 120dB to 106dB.....	6	• Updated Large-signal differential voltage amplification section values.....	6	• Combined Single, dual and quad channel electrical characteristics.....	9	• Updated Large-signal differential voltage amplification section values.....	9
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Changes from Revision G (September 2003) to Revision H (December 2025)	Page
• Deleted High slew-rate.....	1
• Deleted Low harmonic distortion.....	1
• Deleted Large capacitance drive capability	1
• Changed Wide bandwidth product from 4MHz to 4.5MHz	1
• Changed Fast setting time from 1.1 μ s to 2 μ s.....	1
• Updated Gain-bandwidth product from 4MHz to 4.5MHz.....	1
• Deleted Ordering information table.....	1
• Deleted Schematic Information.....	1
• Updated Thermal impedance D package value from 97°C/W to 130.7°C/W.....	4
• Updated Input offset current from 6nA to 0.01nA.....	5
• Updated Input bias current from 100nA to 0.01nA.....	5
• Updated Low-level Output voltage at 10k Ω from –14.7V to –14.8V.....	5
• Updated High-level Output voltage from 4V to 4.8V	5
• Updated High-level Output voltage at 10k Ω from 14V to 14.8V	5
• Updated Low-level Output voltage from 0.1V to 5mV.....	5
• Updated Short circuit output current for source from –34mA to –75mA.....	5
• Updated Low-level Input voltage for sink from 27mA to 75mA.....	5
• Updated Supply current from 3.5mA to 0.56mA.....	5
• Updated Settling time from 1.1 μ s to 2 μ s for 0.1% and 2.2 μ s to 2.5 μ s for 0.01%.....	6
• Updated Equivalent input noise voltage from 49nV/ $\sqrt{\text{Hz}}$ to 10.8nV/ $\sqrt{\text{Hz}}$	6
• Updated Equivalent input noise current from 0.22pA/ $\sqrt{\text{Hz}}$ to 2fA/ $\sqrt{\text{Hz}}$	6
• Updated Gain bandwidth product from 4MHz to 4.5MHz.....	6
• Deleted Gain bandwidth product minimum value.....	6
• Updated Power bandwidth value from 160kHz to 85KHz.....	6
• Updated Differential input resistance from 150M Ω to 540G Ω	6
• Updated Input capacitance from 2.5pF to 10pF.....	6
• Updated Open-loop output impedance from 20 Ω to 525 Ω	6

Changes from Revision E (February 2002) to Revision F (January 2026)	Page
• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Deleted TLC272Y throughout the document.....	1
• Deleted input offset voltage drift bullet from the <i>Features</i>	1
• Deleted trimmed offset voltage bullet from the <i>Features</i>	1
• Changed low noise typical from 25nV/√Hz to 10.8nV/√Hz in the <i>Features</i>	1
• Deleted references to LinCMOS throughout the document.....	1
• Deleted the <i>Available Options</i> table in the <i>Description</i>	1
• Deleted Equivalent Schematic figure from the document.....	1
• Added the <i>Pin Configuration and Functions</i> section.....	3
• Deleted FK package pinout details from the document.....	3
• Deleted all tables in the <i>Specifications</i> related to TLC272M and TLC272Y	4
• Deleted M-suffix and FK package related information in the <i>Absolute Maximum Ratings</i> table.....	4
• Deleted the <i>Dissipation Ratings</i> table.....	4
• Deleted M suffix table column in the <i>Recommended Operating Conditions</i> table.....	4
• Changed Input offset Voltage for 272C typical from 1.1mV to 0.12mV in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Input offset Voltage for 272AC typical from 0.9mV to 0.12mV in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Input offset Voltage for 272BC typical from 230μV to 0.12mV in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Input offset Voltage for 277C typical from 200μV to 0.12mV in all of the <i>Electrical Characteristics</i> tables.....	5

• Changed Temperature coefficient of input offset voltage from 1.8μV/°C to 0.3μV/°C in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Input offset current from 0.1pA to 10pA in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Input bias current from 0.6pA to 10pA in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Common-mode input voltage range at 25°C and full range from –0.2V to –0.1V in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed High-level output voltage at 5V, 25°C, 0°C and 70°C from 3.8V to 4.95V in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed Large-signal differential voltage amplification at 25°C from 23V/mV to 1000V/mV in all of the <i>Electrical Characteristics</i> tables.....	5
• Deleted large-signal differential voltage amplification at 0°C and 70°C in all of the <i>Electrical Characteristics</i> tables.....	5
• Deleted common-mode rejection ratio at 0°C and 70°C in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed supply-voltage rejection ratio at 25°C from 95dB to 120dB in all of the <i>Electrical Characteristics</i> tables.....	5
• Deleted Supply-voltage rejection ratio at 0°C and 70°C in all of the <i>Electrical Characteristics</i> tables.....	5
• Deleted Supply current (two amplifiers) at 25°C from 1.4mA to 1.12mA in all of the <i>Electrical Characteristics</i> tables.....	5
• Deleted Supply current (two amplifiers) at 0°C and 70°C in all of the <i>Electrical Characteristics</i> tables.....	5
• Changed high-level output voltage at 10V, 25°C from 8.5V to 9.95V in the 10V <i>Electrical Characteristics</i> table.....	6
• Deleted high-level output voltage at 10V, 0°C and 70°C in the <i>Electrical Characteristics</i> table.....	6
• Changed Equivalent input noise voltage from 25nV/√Hz to 10.8nV/√Hz in the <i>Operating Characteristics</i> table.....	9
• Changed V _{IPP} from 1V to 100mV and 2.5V to 1V in the <i>Operating Characteristics</i> table.....	9
• Changed Maximum output-swing bandwidth from 320kHz to 10kHz in the <i>Operating Characteristics</i> table.....	9
• Changed Slew Rate at Unity gain typical at V _{IPP} 100mV from 3.6V/μs to 0.5V/μs and at 1V from 2.9V/μs to 21V/μs in the <i>Operating Characteristics</i> table.....	9
• Changed Unity gain bandwidth typical from 1.7MHz to 4.5MHz in the <i>Operating Characteristics</i> table.....	9
• Changed Phase Margin typical from 46° to 60° in the <i>Operating Characteristics</i> table.....	9
• Deleted all values for –40°C and 85°C in the <i>Operating Characteristics</i> table.....	9
• Added TLC272C, TLC272AC, TLC272BC, TLC277C in the <i>Operating Characteristics</i> table.....	9
• Updated the <i>Typical Characteristics</i> as per latest data.....	10
• Deleted <i>Full Power Response</i> and <i>Test Time</i> sections.....	14
• Deleted <i>Output Characteristics</i> , <i>Feedback</i> , <i>Electrostatic Discharge</i> , and <i>Latch-up</i> sections.....	17

The datasheet number will be changing.

Device Family	Change From:	Change To:
TL05x	SLOS178A	SLOS178B
TL3472	SLOS200G	SLOS200H
TLC27xx	SLOS091E	SLOS091F

These changes may be reviewed at the datasheet links provided.

<https://www.ti.com/product/TL051>

<https://www.ti.com/product/TL3472>

<https://www.ti.com/product/TLC272>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

There are changes in the electrical specifications. Review the updated datasheet for more details on the changes.

Changes to product identification resulting from this PCN:

None.

Product Affected:

TL052CP	TL052CDRG4	TL052AIP.A	TL051CDR
TL052AIDR	TL052CPSR	TL054ACDR.A	TL051CDR.A
TL054AIDR.A	TL054IN.A	TL052CPSR.A	TL052IDR.A
TL054CDR	TL051CP.A	TL052IDR	TL052ACDR.A
TL054CN.A	TL051CP	TL054IDR	TL054IDR.A
TL054ACN	TL052CDR	TL054ACN.A	TL052AIDR.A
TL052IP.A	TL052AIP	TL054CN	TL052ACDR
TL054IN	TL052CP.A	TL054ACDR	TL054CNSR.A
TL052CDRE4	TL052ACP	TL052IP	TL052ACP.A
TL054AIDR	TL054CDR.A	TL054CNSR	TL052CDR.A
TL3472CDR	TL3472CDR.A	TL3472CP	TL3472CP.A
TL3472IDR	TL3472IDR.A	TL3472IP	TL3472IP.A
TLC277IDR	TLC272BCP.A	TLC272CPWR	TLC272CDR1G4
TLC277CPSR.A	TLC272BIP	TLC272AIP	TLC272CP.A
TLC272IDR1G4	TLC272IDR.A	TLC272CPSR	TLC272BCPS.A
TLC272BIDR.A	TLC277IP.A	TLC277CDR	TLC272CDR1G4.A
TLC272IDR	TLC277CP.A	TLC277CPS	TLC272ACP.A
TLC272IDR1G4.A	TLC277IDR.A	TLC277IDRG4.A	TLC272CPWR.A
TLC272BIDR	TLC277CDR.A	TLC277CP	TLC272AIDR.A
TLC272BIDRG4.A	TLC272BCDR	TLC272CP	TLC272AIDR
TLC272CDR.A	TLC272CDR	TLC272CPS.A	TLC272BCPS
TLC272BCP	TLC272AIDRG4	TLC272ACDR	TLC272BCDR.A
TLC277IP	TLC272CPSR.A	TLC272ACP	TLC272BIDRG4
TLC272CPS	TLC277IDRG4	TLC272AIDRG4.A	TLC272IP.A
TLC272IP	TLC277CPS.A	TLC272ACDR.A	TLC272BIP.A
TLC272AIP.A	TLC277CPSR		

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