



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230721002.1
Qualification of additional mold compound for select devices
Change Notification / Sample Request

Date: July 27, 2023
To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of 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 changes discussed within this PCN will not take effect any earlier than the proposed first ship date 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 or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team
SC Business Services

20230721002.1
Attachment: 1

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
TL431CLP	null
TL431CLPM	null
TL431CLPR	null
TL431ILPR	null
TL431AILP	null
TL431AILPR	null
TL431AILPM	null
TL1431CLP	null
TL431ACLPM	null
TL1431CLPR	null
LP2950-50LPRE3	null
TL431ACLPR	null

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

PCN Number:	20230721002.1		PCN Date:	July 27, 2023								
Title:	Qualification of additional mold compound for select devices											
Customer Contact:	Change Management Team	Dept:	Quality Services									
Proposed 1st Ship Date:	Oct 27, 2023		Sample requests accepted until:	Aug 27, 2023								
*Sample requests received after Aug 27, 2023 will not be supported.												
Change Type:												
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material							
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process							
<input checked="" 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 Material							
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process							
PCN Details												
Description of Change:												
This PCN is to inform of an alternate mold compound qualification for the devices listed below as follows:												
<table border="1"> <thead> <tr> <th>What</th> <th>Current</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>SID#402042101</td> <td>S#131010100089</td> </tr> </tbody> </table>					What	Current	New	Mold Compound	SID#402042101	S#131010100089		
What	Current	New										
Mold Compound	SID#402042101	S#131010100089										
Reason for Change:												
Continuity of supply												
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):												
None												
Impact on Environmental Ratings												
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.												
<table border="1"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> </tr> </tbody> </table>					RoHS	REACH	Green Status	IEC 62474	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change
RoHS	REACH	Green Status	IEC 62474									
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change									
Changes to product identification resulting from this PCN:												
Not applicable												
Product Affected:												
BQ2022ALPR	TL431ACLPR	TL431AILPM	TL431CLPM									
LP2950-50LPRE3	TL431ACLPM	TL431AILPM-NT2	TL431CLPR									
TL1431CLP	TL431ACLPR	TL431AILPR	TL431ILP									
TL1431CLPME3	TL431AILP	TL431CLP	TL431ILPR									
TL1431CLPR												

Qualification Report

ATXWH TO92 new compound Qual
Approve Date 05-July-2023

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	#	Test Name	Condition	Duration	Qual Device: TL1431CLP	Qual Device: BQ2022ALPR	Qual Device: LP2950-50LPRE3
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	1/77/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	1/77/0	1/77/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	3/231/0	-	-
FTY	E6	Final Test Yield	-	-	3/3/0	1/1/0	1/1/0

- QBS: Qual By Similarity
- Qual Device TL1431CLP is qualified at NOT CLASSIFIED NOT CLASSIFIED
- Qual Device BQ2022ALPR is qualified at NOT CLASSIFIED NOT CLASSIFIED
- Qual Device LP2950-50LPRE3 is qualified at NOT CLASSIFIED NOT CLASSIFIED
- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

TI Qualification ID: R-CHG-2209-067

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

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