



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20231127001.1A**

**Qualification alternate Lead finish material for select devices  
Change Notification / Sample Request**

**Date:** February 23, 2024  
**To:** Digi-Key PCN

Dear Customer:

**Revision A** is to announce the addition of a new devices that was not included on the original PCN notification.

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

**20231127001.1A**  
**Change Notification / Sample Request**  
**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.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
CC1120RHBR	null
CC1120RHBT	null
CC1121RHBR	null
CC1121RHBT	null
CC1125RHBR	null
CC1125RHBT	null
CC1175RHBR	null
CC1175RHBT	null
CC1200RHBR	null
CC1200RHBT	null
CC1201RHBR	null
CC1201RHBT	null

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

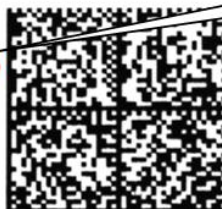
<b>PCN Number:</b>	20231127001.1A			<b>PCN Date:</b>	February 23, 2024						
<b>Title:</b>	Qualification of alternate lead finish material for select devices										
<b>Customer Contact:</b>	Change Management team		<b>Dept:</b>	Quality Services							
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Feb 28, 2024 May 23, 2024 (rev A)		<b>Sample Requests accepted until:</b>	Mar 23, 2024*							
<b>*Sample requests received after Mar 23, 2024 will not be supported.</b>											
<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 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						
<b>PCN Details</b>											
<b>Description of Change:</b>											
<p><b>Revision A</b> is to announce the <u>addition</u> of new devices that was not included on the original PCN notification. The new device is highlighted and <b>bolded</b> in the device list below. The expected first shipment date for the new device will be 90 days from this notice (May 23, 2024) for the newly added device only. The proposed 1<sup>st</sup> ship date of Feb 28, 2024 still applies for the original set of devices.</p> <p>This PCN is to inform of an alternate lead finish material set for the list of devices in the product affected sections below.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>What</th> <th>Current</th> <th>Additional</th> </tr> <tr> <td>Lead finish</td> <td>NiPdAu</td> <td>Matte Sn</td> </tr> </table> <p>Upon expiry of this PCN, there will be a transition period where TI will combine lead free solutions in a single <u>standard part number</u>. For example; <b><u>TPS61291DRVR</u></b> – can ship with both Matte Sn and NiPdAu.</p> <p>Example:</p> <ul style="list-style-type: none"> <li>– Customer order for 7500 units of TPS61291DRVR with 2500 units SPQ (Standard Pack Quantity per Reel).</li> <li>– TI can satisfy the above order in one of the following ways. <ul style="list-style-type: none"> <li>I. 3 Reels of NiPdAu finish.</li> <li>II. 3 Reels of Matte Sn finish</li> <li>III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish.</li> <li>IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.</li> </ul> </li> </ul>						What	Current	Additional	Lead finish	NiPdAu	Matte Sn
What	Current	Additional									
Lead finish	NiPdAu	Matte Sn									
<b>Reason for Change:</b>											
Standardization											
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>											
None											
<b>Impact on Environmental Ratings</b>											
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.											
<b>RoHS</b>	<b>REACH</b>	<b>Green Status</b>	<b>IEC 62474</b>								
<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:**

Sample product shipping label (not actual product label)

**G4 = NiPdAu**  
**G3 = Matte Sn**

 **TEXAS**  
**INSTRUMENTS**  
MADE IN: Malaysia  
2DC: 2Q:  
MSL '2 /260C/1 YEAR SEAL DT  
MSL 1 /235C/UNLIM 03/29/04  
OPT:  
ITEM: 39  
LBL: 5A (L)T0:1750



(1P) SN74LS07NSR  
(Q) 2000 (D) 0336  
(31T) LOT: 3959047MLA  
(4W) TKY(1T) 7523483SI2  
(P)  
(2P) REV: (V) 0033317  
(20L) CS0: SHE (21L) CC0:USA  
(22L) AS0: MLA (23L) AC0: MYS

**Product Affected:**

<b>CC1120RHBR</b>	<b>CC1125RHBR</b>	<b>CC1200RHBT</b>	<b>CC2544RHBT</b>
<b>CC1120RHBT</b>	<b>CC1125RHBT</b>	<b>CC1201RHBR</b>	<b>TLMW401RHBR</b>
<b>CC1121RHBR</b>	<b>CC1175RHBR</b>	<b>CC1201RHBT</b>	TPS61291DRVR
<b>CC1121RHBT</b>	<b>CC1175RHBT</b>	<b>CC2544RHBR</b>	TPS61291DRVT
<b>CC1125ARHBR</b>	<b>CC1200RHBR</b>	<b>CC2544RHBR</b>	

**Qualification Report**

Approve Date 11-October -2023

## Qualification Results

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

Type	Test Name	Condition	Duration	Qual Device: <u>TPS61291DRVR</u>
AC	Autoclave	121C/15psig	96 Hours	3/231/0
TC	Temperature Cycle	-65C/150C	500 Cycles	3/231/0
HTSL	High Temperature Storage Life	175C	420 Hours	3/231/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	(per mfg. Site specification)	Pass

QBS: Qual By Similarity

Qual Device TPS61291DRVR is qualified at MSL1 260C

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/>

## Qualification Report

Approve Date 16-February -2024

### Qualification Results

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

Type	Test Name	Condition	Duration	Qual Device: CC2544RHB
AC	Autoclave	121C/15psig	96 Hours	3/231/0
TC	Temperature Cycle	-65C/150C	500 Cycles	3/231/0
HTSL	High Temperature Storage Life	175C	420 Hours	3/231/0
SD	PB-Free Solderability	PB-Free Solderability	PB-Free Solderability	1/22/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	(per mfg. Site specification)	Pass

QBS: Qual By Similarity

Qual Device CC2544RHB is qualified at MSL3 260C

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/>

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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