



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN#20210316000.1  
Die Coat addition for select devices  
Change Notification / Sample Request**

**Date:** March 25, 2021  
**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 of the 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 PCN Team ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team  
SC Business Services

**20210316000.1**  
**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
TPS54540DDA	null
TPS54540DDAR	null
TPS54340DDAR	null
TPS54360DDAR	null
TPS54340DDA	null
TPS54560DDAR	null
TPS54560DDA	null

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

<b>PCN Number:</b>	20210316000.1			<b>PCN Date:</b>	Mar 25, 2021
<b>Title:</b>	Die Coating addition for Select Devices				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>		<b>Dept:</b>	Quality Services	
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Jun 22, 2021		<b>Estimated Sample Availability:</b>	Date provided at sample request.	
<b>Change Type:</b>					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>	Wafer Bump Site	<input checked="" type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change		
<b>PCN Details</b>					
<b>Description of Change:</b>					
This notification is to announce the qualification of Polyimide Die Coating material for the devices listed in "Product Affected" section.					
<b>Die Coat Current</b>			<b>Change To</b>		
NONE			POLYIMIDE		
<b>Reason for Change:</b>					
Continuity of Supply					
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>					
None					
<b>Changes to product identification resulting from this PCN:</b>					
Not applicable					
<b>Product Affected:</b>					
TPS54340DDA	TPS54360DDA	TPS54540DDA	TPS54560DDA		
TPS54340DDAR	TPS54360DDAR	TPS54540DDAR	TPS54560DDAR		
TPS54340DDAR-P					

## Qualification Results

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

Type	Test Name / Condition	Duration	Qual Product Reference: <u>TPS54xxxDDAR [a]</u>	QBS Package qual reference: <u>TPS5430QDDARCT</u>
AC	Autoclave 121C	96 Hours	1/77/0	3/231/0
CDM	ESD CDM	250 V	1/3/0	-
ED	Electrical Distributions	Room, hot, and cold test	3/30/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	1/77/0	3/231/0
HTSL	150C	1000 hours	1/45/0	3/231/0
HBM	ESD HBM	2000 V	1/3/0	-
HTOL	Life Test, 125C	1000 Hours	3/231/0	-
LU	Latch-up	125C/LUPS	1/6/0	1/6/0
TC	Temperature Cycle - 65C/150C	500 Cycles	1/77/0	3/231/0

[a] TPS54xxxDDAR covers TPS54340/360/540/560 DDAR part numbers

- QBS: Qual by Similarity

- Qual Device TPS54xxxDDAR family of devices are qualified at LEVEL2-260C

- 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/>

### **Green/Pb-free Status:**

Qualified Pb-Free(SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below, or you can contact your local Field Sales Representative.

Location	E-Mail
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
WW PCN Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

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