

<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		<b>POLYIMIDE</b>			
<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

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