



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20230412001.1**

**Qualification of a new Die Attach Material for select devices**

**Change Notification / Sample Request**

**Date:** April 12, 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 of the change. If additional data is 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_admin_team@list.ti.com)). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team  
SC Business Services

**20230412001.1**  
**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>
DRV8818PWPR	null
TPA3113D2PWPR	null
LM5176PWPR	null
TPA3118D2DAPR	null
TPA3110D2PWP	null
TPA3110D2PWPR	null
TPA3138D2PWPR	null
TAS5805MPWPR	null
DRV8876PWPR	null
DRV8876PWPT	null
DRV8840PWP	null
LM5176PWPT	null
DRV8840PWPR	null
TPA3138D2PWP	null
DRV8818PWP	null
SN005805PWPR	null
TPA3130D2DAPR	null
TLS2605RDCARG4	GDM460002751
TPA3130D2DAP	null

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

<b>PCN Number:</b>	20230412001.1			<b>PCN Date:</b>	April 12, 2023
<b>Title:</b>	Qualification of a new die attach material 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>	Jul 11, 2023	<b>Sample requests accepted until:</b>	May 12, 2023		
<b>*Sample requests received after May 12, 2023 will not be supported.</b>					
<b>Change Type:</b>					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process
<b>PCN Details</b>					
<b>Description of Change:</b>					
This PCN is to inform of an alternate die attach material for the devices listed below.					
<b>What</b>		<b>Current</b>		<b>New</b>	
<b>Die attach material</b>		4208458		<b>4211470</b>	
<b>Reason for Change:</b>					
Continuity of supply					
<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>	
<input checked="" type="checkbox"/> No Change		<input checked="" type="checkbox"/> No Change		<input checked="" type="checkbox"/> No Change	
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<b>Changes to product identification resulting from this PCN:</b>					
None					
<b>Product Affected:</b>					
DRV10987SLIPWPR	LM5176PWPR	TAS5806MDCPR	TPA3113D2PWPR		
DRV8818PWP	LM5176PWPT	TAS5806MDDCP	TPA3118D2DAP		
DRV8818PWPR	SN005805PWPR	TAS5806MDDCPR	TPA3118D2DAPR		
DRV8840PWP	SN8C0183PWP	TAS5807MDCP	TPA3130D2DAP		
DRV8840PWPR	SN8C0183PWPR	TAS5807MDCPR	TPA3130D2DAPR		
DRV8876NPWPR	SNB9039DCP-P	TLS2605RDCARG4	TPA3138D2PWP		
DRV8876NPWPT	TAS5805M0PWPR	TPA3110D2PWP	TPA3138D2PWPR		
DRV8876PWPR	TAS5805MPWP	TPA3110D2PWPR	TPS8802DCPR		

DRV8876PWPT	TAS5805MPWPR	TPA3113D2PWP
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TI Information  
Selective Disclosure

## Qualification Report

Approve Date 07-APRIL -2023

### Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: TAS5807MDCPR	Qual Device: TLS2605RDCARG4	QBS Reference: LP8880DCPRQ1
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	3/231/0	3/231/0	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	175C	500 Hours	-	-	3/135/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	-	1/15/0
PD	C4	Physical Dimensions	Cpk>1.67	-	-	-	3/30/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	1/30/0	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	3/90/0

- QBS: Qual By Similarity
- Qual Device TAS5807MDCPR and TLS2605RDCARG4 are 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/>

#### Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

TI Qualification ID: R-CHG-2207-055

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

Location	E-Mail
WW Change Management Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

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