



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20131210001A**  
**Qualification of Alternate Assembly site & Material set for the TPD4E001DBVR**  
**Change Notification / Sample Request**

**Date:** 2/17/2014  
**To:** MOUSER PCN

Dear Customer:

Rev A is being issued to correct the bond wire reference in the ASEWH column of the Description of change section.

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.

We request you acknowledge 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 you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services  
Phone: +1(214) 480-6037  
Fax: +1(214) 480-6659

**20131210001A**  
**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>
TPD4E001DBVR	null

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

<b>PCN Number:</b>	20131210001A	<b>PCN Date:</b>	2/18/2018
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**Title:** Qualification of Alternate Assembly site & Material set for the TPD4E001DBVR

**Customer Contact:** [PCN Manager](#) **Phone:** +1(214)480-6037 **Dept:** Quality Services

**Proposed 1<sup>st</sup> Ship Date:** 03/12/2014 **Estimated Sample Availability:** 12/12/2013

<b>Change Type:</b>					
<input checked="" type="checkbox"/>	Assembly Site	<input checked="" type="checkbox"/>	Assembly Process	<input checked="" 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 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		

### PCN Details

**Description of Change:**

Rev A is being issued to correct the bond wire reference in the ASEWH column of the Description of change section.

Texas Instruments is pleased to announce the qualification of NFME (Nantong Fujitsu Microelectronics) as an alternate assembly site for the TPD4E001DBVR. Material Difference are noted below:

	ASEWH	NFME
<b>Mold Compound</b>	SID#4020039A1	<b>SID#R-17</b>
<b>Mount Compound</b>	SID#1220001A1	<b>SID#A-03</b>
<b>Bond Wire</b>	0.8mil, <del>Cr</del> Au	<b>1.0mil, Cu</b>
<b>Lead Finish</b>	NiPdAu	<b>Matt Sn</b>

Upon expiry of this PCN, TI will combine lead free solutions in a single **standard part number**, for example; **TPD4E001DBVR** – can ship with both Matte Sn and NiPdAu.

**Reason for Change:**

Continuity of Supply

**Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):**

None

**Changes to product identification resulting from this PCN:**

Assembly Site		
ASE Weihai (ASEWH)	Assembly Site Origin (22L)	ASO: AWH
Nantong Fujitsu Microelectronics	Assembly Site Origin (22L)	ASO: <b>NFM</b>

Sample product shipping label (not actual product label)

**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)TO:1750**

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

G4 = NiPdAu  
G3= MATTE Sn

**Topside Device marking:**  
 Assembly site code for AWH= I  
 Assembly site code for NFM= E

**Product Affected**

TPD4E001DBVR

**Reference Qualification Data**

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

**Qual Vehicle: TPD4E001DBVR (MSL 1-260C)**

**Package Construction Details**

Assembly Site:	NFME	Mold Compound:	SID#R-17
# Pins-Designator, Family:	6-DBV, SOT	Mount Compound:	SID#A-03
Lead Finish	Matte Sn	Bond Wire:	1.0mil Cu

**Qualification:**  Plan  Test Results

Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Biased HAST	130C/85%RH (192 Hrs)	77/0	77/0	77/0
**High Temp. Storage Bake	150C (1000 Hrs)	77/0	--	--
**T/C -65C/150C	-65C/+150C (1000 Cyc)	77/0	77/0	77/0
**Unbiased HAST	130C/85%RH/33.3 psia (192 hrs)	77/0	--	--
Ball Bond Shear	5 units, >76 balls, 0 fails	Pass	Pass	Pass
Bond Strength	5 units, >76 balls, 0 fails	Pass	Pass	Pass
Die Shear	76 Wire, 3 units min	Pass	Pass	Pass
Electrical Characterization	Side by Side, Over Temp	Pass	--	--

Notes \*\*- Preconditioning sequence: Level 1-260C.

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or 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>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>