



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

**PCN# 20150824000**

**Qualification of CFAB as an additional wafer fab site option for select devices in the  
LBC5 process technology  
Change Notification / Sample Request**

**Date:** 8/26/2015  
**To:** MOUSER 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.

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)).

PCN Team  
SC Business Services




**20150824000**  
**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>
TAS5612LADDVR	null
TAS5622ADDV	null

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

<b>PCN Number:</b>	20150824000		<b>PCN Date:</b>	08/26/2015																			
<b>Title:</b>	Qualification of CFAB as an additional wafer fab site option for select devices in LBC5 process technology																						
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>			<b>Dept:</b>	Quality Services																		
<b>Proposed 1<sup>st</sup> Ship Date:</b>	11/26/2015		<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 type="checkbox"/> Wafer Bump Material	<input type="checkbox"/> Wafer Bump Process																					
<input checked="" 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 change notification is to announce the qualification of CFAB as an additional wafer fab site option for the LBC5 devices listed in the product affected section of this document.																							
<table border="1"> <thead> <tr> <th colspan="3">Current</th> <th colspan="3">Additional</th> </tr> <tr> <th>Current Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> <th>Additional Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> </tr> </thead> <tbody> <tr> <td>DP1DM5</td> <td>LBC5</td> <td>200 mm</td> <td>CFAB</td> <td>LBC5</td> <td>200 mm</td> </tr> </tbody> </table>						Current			Additional			Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter	DP1DM5	LBC5	200 mm	CFAB	LBC5	200 mm
Current			Additional																				
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter																		
DP1DM5	LBC5	200 mm	CFAB	LBC5	200 mm																		
The LBC5 process technology has been running successfully in production at CFAB since 2012.																							
<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>																							
<b>Current</b>																							
Chip Sites	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City																				
DP1DM5	DM5	USA	Dallas																				
<b>New</b>																							
Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City																				
CFAB	CU3	CHN	Chengdu																				
Sample product shipping label (not actual product label)																							
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">  <p><b>TEXAS INSTRUMENTS</b> MADE IN: Malaysia 2DC: 20: MSL 2 / 260C/1 YEAR SEAL DT MSL 1 / 235C/UNLIM 03/29/04 OPT: ITEM: 39 <b>LBL: 5A (L)T0:1750</b></p> </div> <div style="width: 15%; text-align: center;">  </div> <div style="width: 15%; text-align: center;">  </div> <div style="width: 40%;"> <p>(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) (2P) REV: (V) 0033317 (20L) CS0: SHE (21L) CC0:USA (22L) AS0: MLA (23L) AC0: MYS</p> </div> </div>																							

Product Affected:				
SN9A040DWR	TAS5612LDDV	TAS5622ADDV	TAS5624DDV	
SN9A041DWR	TAS5612LDDVR	TAS5622ADDVR	TAS5624DDVR	
TAS5612LADDV	TAS5614LADDV	TAS5624ADDV		
TAS5612LADDVR	TAS5614LADDVR	TAS5624ADDVR		

### Qualification Report

#### Qualification of LBC5 Process Technology at CFAB Approved 03/02/2012

#### Die Attributes

Attributes	Process QBS : TAS5613APHD Approved: 3/2/2012	Process QBS: DRV8813A0PWP Approved: 3/2/2012	Process QBS: SN8C0183PWP Approved: 3/2/2012
Wafer Fab Site	CFAB	CFAB	CFAB
Wafer Fab Process	LBC5	LBC5	LBC5
Wafer Diameter	200mm	200mm	200mm

- QBS: Qual By Similarity
- Qual Device TAS5613APHD and SN8C0183PWP are qualified at LEVEL3-260C
- Qual Device DRV8813A0PWP is qualified at LEVEL1-260C

### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TAS5613APHD	Qual Device: DRV8813A0PWP	Qual Device: SN8C0183PWP
AC	Autoclave 121C	96 Hours	3/77/0	3/77/0	-
ED	Electrical Characterization	Per Datasheet Parameters	3/Pass	3/Pass	3/3/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/77/0	-	-
HBM	ESD - HBM	1500 V	3/21/0	1/3/0	-
CDM	ESD - CDM	250 V	3/15/0	1/3/0	-
HTOL	Life Test, 155C	240 Hours	3/77/0		3/77/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/77/0	-	-
LU	Latch-up	(per JESD78)	3/6/0	1/6/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/77/0	3/77/0	-

- 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>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>