

<b>PCN Number:</b>	20190307000.1		<b>PCN Date:</b>	Mar 11, 2019
<b>Title:</b>	Qualification of UMC-F8AB as an additional Wafer Fab Site option for select devices in LBC5 Technology			
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>		<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Jun 11, 2019	<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			

### PCN Details

#### Description of Change:

Texas Instruments is pleased to announce the qualification of UMC-F8AB fabrication facility as an additional Wafer Fab source for the selected devices listed in "Product Affected" section.

Current Sites			Additional Sites		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DP1DM5	LBC5	200mm	UMC-F8AB	LBC5	200mm
CFAB	LBC5	200mm			

Qual details are provided in the Qual Data Section.

#### Reason for Change:

Continuity of Supply

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

None

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

##### Current

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
DP1DM5	DM5	USA	Dallas
CFAB	CU3	CHN	Chengdu

##### New Fab Site

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
UMC-F8AB	UAB	TWN	Hsin-Chu

Sample product shipping label (not actual product label)

 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>	 	(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS
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#### Product Affected Group:

DRV8802PWP	DRV8818PWPR	DRV8860PW	LV14260PDDA
DRV8802PWPR	DRV8825PWP	DRV8860PWPR	LV14260PDDAR

DRV8803PWP	DRV8825PWPR	DRV8860PWR	LV14360PDDA
DRV8803PWPR	DRV8829PWP	LMR16010PDDA	LV14360PDDAR
DRV8804PWP	DRV8829PWPR	LMR16010PDDAR	LV14360SDDA
DRV8804PWPR	DRV8840PWP	LMR16020PDDA	LV14360SDDAR
DRV8805PWP	DRV8840PWPR	LMR16020PDDAR	SN003255DDV
DRV8805PWPR	DRV8841PWP	LMR16030PDDA	SN003255DDVR
DRV8813PWP	DRV8841PWPR	LMR16030PDDAR	SN22020PWPR
DRV8813PWPR	DRV8842PWP	LMR16030SDDA	TPA3255DDV
DRV8814PWP	DRV8842PWPR	LMR16030SDDAR	TPA3255DDVR
DRV8814PWPR	DRV8843PWP	LV14160PDDA	TPA5640DDV
DRV8818PWP	DRV8843PWPR	LV14160PDDAR	TPA5640DDVR

## Qualification Report

Approval Date 20-February-2019

### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: DRV8818PWP
AC	Autoclave, 121C/2 atm	96 Hours	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0
HBM	ESD - HBM	2500 V	1/3/0
CDM	ESD - CDM	1000 V	1/3/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	2/154/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0
LU	Latch-up	(per JESD78)	1/6/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0

- QBS: Qual By Similarity

- Qual Device DRV8818PWP is qualified at LEVEL3-260C

- 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.

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USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
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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>