




<b>PCN Number:</b>	20190110000.1		<b>PCN Date:</b>	Jan 15, 2019	
<b>Title:</b>	Transfer of select P2-XMOS devices from GFAB to DFAB Wafer Fab site				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>		<b>Dept:</b>	Quality Services	
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Apr 15, 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 checked="" type="checkbox"/>	Wafer Fab Materials	<input checked="" 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 transfer of select P2-XMOS devices from GFAB to the DFAB (DL-LIN) Wafer Fab site for the selected devices listed in the "Product Affected" section.					
<b>Current Fab Site</b>			<b>New Fab Site</b>		
<b>Current Fab Site</b>	<b>Process</b>	<b>Wafer Diameter</b>	<b>New Fab Site</b>	<b>Process</b>	<b>Wafer Diameter</b>
GFAB6	P2-XMOS	150 mm	DL-LIN	P2-XMOS	200 mm
<b>GFAB6 Die Metallization</b>			<b>DL-LIN Die Metallization</b>		
12kA - Al 0.5%Cu			16kA - Al 0.5%Cu		
Qual details are provided in the Qual Data Section.					
<b>Reason for Change:</b>					
Greenock, Scotland (GFAB) Wafer Fab site closure					
<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>					
Current Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City		
GFAB6	GF6	GBR	Greenock		
<b>New Fab Site:</b>					
New Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City		
DL-LIN	DLN	USA	Dallas		
Sample product shipping label (not actual product label)					
 TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 20:		 G4		(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483SI2 (P) (2P) REV: (V) 0055517 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS	
MSL 2 / 260C / 1 YEAR SEAL DT MSL 1 / 235C / UNLIM 03/29/04 OPT: ITEM: 39 LBL: 5A (L) TO: 1750					
<b>Product Affected:</b>					
LM629M-6/NOPB	LM629M-8/NOPB	LM629MX-8/NOPB	LM629MX-8/S7002371		
LM629M-8					

## Qualification Report

Approve Date 08-January-2019

### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM629M-8/NOPB	QBS Process Reference: TLV9002ID
AC	Autoclave (121C, 2atm)	96 Hours	1/77/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	1/800	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
HBM	ESD - HBM	1000 V	3/9/0	3/9/0
CDM	ESD - CDM	1000 V	3/9/0	3/9/0
HTOL	Life Test, 125C	300 Hours	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0	3/231/0
LU	Latch-up	(per JESD78)	3/18/0	3/18/0
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0

- QBS: Qual By Similarity

- Qual Device LM629M-8/NOPB 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.

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>