

PCN Number:	20180301001		PCN Date:	Mar 2, 2018																									
Title:	Transfer of select VIP1P devices from GFAB to DFAB (DL-LIN) Wafer Fab site																												
Customer Contact:	PCN Manager		Dept:	Quality Services																									
Proposed 1st Ship Date:	Jun 2, 2018		Estimated Sample Availability:	Date provided at sample request.																									
Change Type:																													
<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																										
PCN Details																													
Description of Change:																													
This change notification is to announce the transfer of select VIP1P devices from GFAB to the DFAB (DL-LIN) Wafer Fab site for the selected devices listed in the "Product Affected" section.																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Current Fab Site</th> <th colspan="3">New Fab Site</th> </tr> <tr> <th>Current Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> <th>New Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> </tr> </thead> <tbody> <tr> <td>GFAB6</td> <td>VIP1P</td> <td>150 mm</td> <td>DL-LIN</td> <td>VIP1P</td> <td>200 mm</td> </tr> <tr> <td>GFAB6</td> <td>VIP1P</td> <td>200 mm</td> <td>DL-LIN</td> <td>VIP1P</td> <td>200 mm</td> </tr> </tbody> </table>						Current Fab Site			New Fab Site			Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter	GFAB6	VIP1P	150 mm	DL-LIN	VIP1P	200 mm	GFAB6	VIP1P	200 mm	DL-LIN	VIP1P	200 mm
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GFAB6	VIP1P	200 mm	DL-LIN	VIP1P	200 mm																								
Qual details are provided in the Qual Data Section.																													
Reason for Change:																													
Greenock, Scotland (GFAB) Wafer Fab site closure																													
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																													
None																													
Changes to product identification resulting from this PCN:																													
Current:																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Current Chip Site</th> <th>Chip Site Origin Code (20L)</th> <th>Chip Site Country Code (21L)</th> <th>Chip Site City</th> </tr> </thead> <tbody> <tr> <td>GFAB6</td> <td>GF6</td> <td>GBR</td> <td>Greenock</td> </tr> <tr> <td>GFAB8</td> <td>GF8</td> <td>GBR</td> <td>Greenock</td> </tr> </tbody> </table>						Current Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City	GFAB6	GF6	GBR	Greenock	GFAB8	GF8	GBR	Greenock												
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DL-LIN	DLN	USA	Dallas																										
Sample product shipping label (not actual product label)																													
Product Affected:																													
LM10520MH/NOPB	LP2982IM5-5.0/NOPB	LP2985IM5X-3.3/S5001421	LP2989AIMMX-2.5/NOPB																										
LM10520MHE/NOPB	LP2982IM5X-3.0/NOPB	LP2985IM5X-3.6/NOPB	LP2989AIMMX-5.0/NOPB																										
LM10520MHX/NOPB	LP2982IM5X-3.3/NOPB	LP2985IM5X-4.0/NOPB	LP2989AIMX-1.8/NOPB																										

LM10540MH/NOPB	LP2982IM5X-5.0/NOPB	LP2985IM5X-4.5/NOPB	LP2989AIMX-2.5/E7002218
LM10540MHE/NOPB	LP2983AIM5-1.0/NOPB	LP2985IM5X-5.0	LP2989AIMX-2.5/NOPB
LM10540MHX/NOPB	LP2983AIM5-1.2/NOPB	LP2985IM5X-5.0/NOPB	LP2989AIMX-3.0/NOPB
LP2980AIM5-2.5	LP2983AIM5X-1.0/NOPB	LP2986AILD-3.3/NOPB	LP2989AIMX-3.3/NOPB
LP2980AIM5-2.5/NOPB	LP2983AIM5X-1.2/NOPB	LP2986AILD-3.3/NOPB	LP2989AIMX-5.0/NOPB
LP2980AIM5-2.5/S7002303	LP2983IM5-1.0/NOPB	LP2986AIM-3.0/NOPB	LP2989ILD-2.5/NOPB
LP2980AIM5-3.0	LP2983IM5-1.2/NOPB	LP2986AIM-3.3	LP2989ILD-3.0/NOPB
LP2980AIM5-3.0/NOPB	LP2983IM5X-1.0/NOPB	LP2986AIM-3.3/NOPB	LP2989ILD-3.3/NOPB
LP2980AIM5-3.3	LP2983IM5X-1.2/NOPB	LP2986AIM-5.0	LP2989ILD-5.0/NOPB
LP2980AIM5-3.3/NOPB	LP2985AIM5-1.5/NOPB	LP2986AIM-5.0/NOPB	LP2989ILD-3.3/NOPB
LP2980AIM5-3.3/S7002302	LP2985AIM5-1.8/NOPB	LP2986AIMM-3.0/NOPB	LP2989ILD-3.3/S5000796
LP2980AIM5-4.7/NOPB	LP2985AIM5-2.0/NOPB	LP2986AIMM-3.3/NOPB	LP2989ILD-5.0/NOPB
LP2980AIM5-5.0	LP2985AIM5-2.5/NOPB	LP2986AIMM-5.0/NOPB	LP2989IM-1.8
LP2980AIM5-5.0/NOPB	LP2985AIM5-2.7/NOPB	LP2986AIMMX-3.0/NOPB	LP2989IM-1.8/NOPB
LP2980AIM5X-2.5	LP2985AIM5-2.8	LP2986AIMMX-5.0/NOPB	LP2989IM-2.5/NOPB
LP2980AIM5X-2.5/NOPB	LP2985AIM5-2.8/NOPB	LP2986AIMX-3.3/NOPB	LP2989IM-3.0/NOPB
LP2980AIM5X-3.0	LP2985AIM5-2.9/NOPB	LP2986AIMX-5.0/NOPB	LP2989IM-3.3
LP2980AIM5X-3.0/NOPB	LP2985AIM5-3.0	LP2986ILD-3.3/NOPB	LP2989IM-3.3/NOPB
LP2980AIM5X-3.3	LP2985AIM5-3.0/NOPB	LP2986IM-3.0/NOPB	LP2989IM-5.0/NOPB
LP2980AIM5X-3.3/NOPB	LP2985AIM5-3.1/NOPB	LP2986IM-3.3/NOPB	LP2989IMM-2.8/NOPB
LP2980AIM5X-4.7/NOPB	LP2985AIM5-3.3	LP2986IM-5.0	LP2989IMM-3.0/NOPB
LP2980AIM5X-5.0/NOPB	LP2985AIM5-3.3/NOPB	LP2986IM-5.0/NOPB	LP2989IMM-3.3/NOPB
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LP2980IM5-3.3	LP2985AIM5-3.8/NOPB	LP2986IMM-5.0/NOPB	LP2989IMMX-2.8/NOPB
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LP2980IM5-3.8/NOPB	LP2985AIM5-4.5/NOPB	LP2986IMX-3.0/NOPB	LP2989IMMX-5.0/NOPB
LP2980IM5-4.7/NOPB	LP2985AIM5-5.0	LP2986IMX-3.3/E7002697	LP2989IMX-1.8/NOPB
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LP2980IM5-5.0/NOPB	LP2985AIM5-5.7/NOPB	LP2986IMX-3.3/S2	LP2989IMX-3.3/NOPB
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LP2980IM5X-3.0/NOPB	LP2985AIM5X-2.5/NOPB	LP2987AILD-5.0/NOPB	LP2992AILD-5.0/NOPB
LP2980IM5X-3.3	LP2985AIM5X-2.6/NOPB	LP2987AIMM-5.0/NOPB	LP2992AILD-3.3/NOPB
LP2980IM5X-3.3/NOPB	LP2985AIM5X-2.8/NOPB	LP2987AIMX-5.0/NOPB	LP2992AILD-5.0/NOPB
LP2980IM5X-5.0	LP2985AIM5X-2.9/NOPB	LP2987ILD-3.3/NOPB	LP2992AIM5-1.5/NOPB
LP2980IM5X-5.0/J7001473	LP2985AIM5X-3.0/NOPB	LP2987IM-3.0/NOPB	LP2992AIM5-1.8/NOPB
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LP2980IM5X-ADJ	LP2985AIM5X-3.3/NOPB	LP2987IM-5.0/NOPB	LP2992AIM5-2.5/NOPB
LP2980IM5X-ADJ/NOPB	LP2985AIM5X-3.6/NOPB	LP2987IMM-3.3/NOPB	LP2992AIM5-3.3
LP2981AIM5-2.5	LP2985AIM5X-3.8/NOPB	LP2987IMM-5.0/NOPB	LP2992AIM5-3.3/NOPB
LP2981AIM5-2.5/NOPB	LP2985AIM5X-4.0/NOPB	LP2987IMMX-3.3/NOPB	LP2992AIM5-5.0/NOPB
LP2981AIM5-3.0/NOPB	LP2985AIM5X-4.5/NOPB	LP2987IMX-3.0/NOPB	LP2992AIM5X-1.5/NOPB
LP2981AIM5-3.3	LP2985AIM5X-5.0	LP2987IMX-5.0/NOPB	LP2992AIM5X-1.8/NOPB

LP2981AIM5-3.3/NOPB	LP2985AIM5X-5.0/NOPB	LP2988AIM-5.0	LP2992AIM5X-2.5/NOPB
LP2981AIM5-3.6/NOPB	LP2985AIM5X-6.1/NOPB	LP2988AIM-5.0/NOPB	LP2992AIM5X-3.3/NOPB
LP2981AIM5-5.0	LP2985I30/DWA	LP2988AIMM-2.8/NOPB	LP2992AIM5X-5.0/NOPB
LP2981AIM5-5.0/NOPB	LP2985IM5-1.8	LP2988AIMM-3.0/NOPB	LP2992ILD-1.8/NOPB
LP2981AIM5X-3.0/NOPB	LP2985IM5-1.8/NOPB	LP2988AIMM-3.3/NOPB	LP2992ILD-2.5/NOPB
LP2981AIM5X-3.3/NOPB	LP2985IM5-2.0/NOPB	LP2988AIMM-5.0/NOPB	LP2992ILD-3.3/NOPB
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LP2981IM5-5.0/NOPB	LP2985IM5-3.3/NOPB	LP2988IMX-5.0/NOPB	LP2992IM5-3.0
LP2981IM5X-3.0/NOPB	LP2985IM5-3.5/NOPB	LP2989AILD-3.0/NOPB	LP2992IM5-3.0/NOPB
LP2981IM5X-3.3/NOPB	LP2985IM5-3.6/NOPB	LP2989AILD-3.3/NOPB	LP2992IM5-3.3
LP2981IM5X-3.6/NOPB	LP2985IM5-3.8/NOPB	LP2989AILD-5.0	LP2992IM5-3.3/NOPB
LP2981IM5X-36C	LP2985IM5-4.0/NOPB	LP2989AILD-5.0/NOPB	LP2992IM5-5.0/NOPB
LP2981IM5X-5.0	LP2985IM5-4.5/NOPB	LP2989AILD-2.8/NOPB	LP2992IM5X-1.5/NOPB
LP2981IM5X-5.0/NOPB	LP2985IM5-5.0	LP2989AIM-1.8	LP2992IM5X-1.8/NOPB
LP2982AIM5-3.0/NOPB	LP2985IM5-5.0/NOPB	LP2989AIM-1.8/NOPB	LP2992IM5X-2.5/NOPB
LP2982AIM5-3.3	LP2985IM5-5.7/NOPB	LP2989AIM-2.5/NOPB	LP2992IM5X-3.3/NOPB
LP2982AIM5-3.3/NOPB	LP2985IM5-6.1/NOPB	LP2989AIM-3.0/NOPB	LP2992IM5X-5.0/NOPB
LP2982AIM5-5.0/NOPB	LP2985IM5X-1.8/NOPB	LP2989AIM-3.3/NOPB	LP3878SD-1.0/NOPB
LP2982AIM5X-3.0/NOPB	LP2985IM5X-2.0/NOPB	LP2989AIM-5.0	LP3879MR-1.2
LP2982AIM5X-3.3/NOPB	LP2985IM5X-2.5/NOPB	LP2989AIM-5.0/NOPB	LP3879MR-1.2/NOPB
LP2982AIM5X-5.0/NOPB	LP2985IM5X-2.7/NOPB	LP2989AIMM-2.5/NOPB	LP3879MRX-1.2/NOPB
LP2982AIM5X-5.0/S7003010	LP2985IM5X-2.8/NOPB	LP2989AIMM-3.0/NOPB	LP3879SD-1.2/J7002447
LP2982IM5-3.0/NOPB	LP2985IM5X-3.0/NOPB	LP2989AIMM-3.3/NOPB	LP3879SD-1.2/NOPB
LP2982IM5-3.3/NOPB	LP2985IM5X-3.3/NOPB	LP2989AIMM-5.0/NOPB	

Qualification Report

DFAB Process qualification VIP1P -BVPALP2985AY50xxx LP2985AIM5-5.0/NOPB

Approve Date 28-Feb-2018

Product Attributes

Attributes	Qual Device: LP2985AIM5-5.0/NOPB
Assembly Site	TIEM
Package Family	SOT-23
Flammability Rating	UL 94 V-0
Wafer Fab Supplier	DFAB-DALLAS
Wafer Process	VIP1P

- Qual Devices qualified at LEVEL1-260CG: LP2985AIM5-5.0/NOPB-CL, LP2985AIM5-5.0/NOPB-TL

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LP2985AIM5-5.0/NOPB
AC	Autoclave 121C	96 Hours	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0
HBM	ESD - HBM	2500 V	3/9/0
CDM	ESD - CDM	1000 V	3/9/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass
MQ	Manufacturability (Wafer Fab)	(per mfg. Site specification)	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0

- 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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com