

PCN Number:	20180307000		PCN Date:	Mar 9, 2018																									
Title:	Transfer of select P2-AMPS devices from GFAB to DFAB Wafer Fab site																												
Customer Contact:	PCN Manager		Dept:	Quality Services																									
Proposed 1st Ship Date:	Jun 9, 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 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 P2-AMPS 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>P2-AMPS</td> <td>150 mm</td> <td>DL-LIN</td> <td>P2-AMPS</td> <td>200 mm</td> </tr> <tr> <td>GFAB8</td> <td>P2-AMPS</td> <td>200 mm</td> <td>DL-LIN</td> <td>P2-AMPS</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	P2-AMPS	150 mm	DL-LIN	P2-AMPS	200 mm	GFAB8	P2-AMPS	200 mm	DL-LIN	P2-AMPS	200 mm
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GFAB8	P2-AMPS	200 mm	DL-LIN	P2-AMPS	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:																													
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DL-LIN	DLN	USA	Dallas																										
Sample product shipping label (not actual product label)																													
Product Affected:																													
5962-9453401MPA	LMC6061AIM/NOPB	LMC6482IM	LMC6772AIMM/NOPB																										
5962-9453402MCA	LMC6061AIMX/NOPB	LMC6482IM/NOPB	LMC6772AIMMX/NOPB																										
5962-9453402QXA	LMC6061IM/NOPB	LMC6482IMM	LMC6772AIMX/NOPB																										

5962-9560302QCA	LMC6061IMX	LMC6482IMM/NOPB	LMC6772BIM
CC01302BC4TR/NOPB	LMC6061IMX/NOPB	LMC6482IMMX	LMC6772BIM/NOPB
CC01366AC2TR/NOPB	LMC6062AIM	LMC6482IMMX/NOPB	LMC6772BIMX
LDC6994BIME/NOPB	LMC6062AIM/NOPB	LMC6482IMX	LMC6772BIMX/NOPB
LDC6994BIMX/NOPB	LMC6062AIMX/NOPB	LMC6482IMX/E7001822	LMC6772BIN/NOPB
LDC6996AIME/NOPB	LMC6062I MDC	LMC6482IMX/NOPB	LMC7101AIM5
LDC6996AIMX/NOPB	LMC6062IM	LMC6482IN/NOPB	LMC7101AIM5/J7002454
LMC555CM	LMC6062IM/NOPB	LMC6482M MD8	LMC7101AIM5/NOPB
LMC555CM/NOPB	LMC6062IMX	LMC6484AIM	LMC7101AIM5X
LMC555CMM	LMC6062IMX/NOPB	LMC6484AIM/NOPB	LMC7101AIM5X/NOPB
LMC555CMM/NOPB	LMC6062IN/NOPB	LMC6484AIMX	LMC7101BIM5
LMC555CMMX	LMC6064AIM	LMC6484AIMX/NOPB	LMC7101BIM5/NOPB
LMC555CMMX/NOPB	LMC6064AIM/NOPB	LMC6484AIMX/SL163019	LMC7101BIM5X
LMC555CMX	LMC6064AIMX/NOPB	LMC6484AIN/NOPB	LMC7101BIM5X/NOPB
LMC555CMX/NOPB	LMC6064IM/NOPB	LMC6484AMJ/883	LMC7101BIM5X/S7001246
LMC555CN/NOPB	LMC6064IMX/NOPB	LMC6484AMWG/883	LMC7101BIM5X/S7002311
LMC555CTP/NOPB	LMC6064IN/NOPB	LMC6484IM	LMC7111BIM5
LMC555CTPX/NOPB	LMC6081AIM	LMC6484IM/NOPB	LMC7111BIM5/NOPB
LMC555IM/NOPB	LMC6081AIM/NOPB	LMC6484IMX	LMC7111BIM5X
LMC555IMX/NOPB	LMC6081AIMX/NOPB	LMC6484IMX/J7000533	LMC7111BIM5X/NOPB
LMC567CMX/NOPB	LMC6081IM/NOPB	LMC6484IMX/NOPB	LMC7211AIM
LMC6001A MDC	LMC6081IMX/E2000158	LMC6484IN/NOPB	LMC7211AIM/NOPB
LMC6001AIN/NOPB	LMC6081IMX/NOPB	LMC6492AEM	LMC7211AIM5
LMC6001BIN/NOPB	LMC6081IN/NOPB	LMC6492AEM/NOPB	LMC7211AIM5/NOPB
LMC6022IM/NOPB	LMC6081-MDA	LMC6492AEMX/NAK2	LMC7211AIM5X
LMC6022IMX/NOPB	LMC6082AIM	LMC6492AEMX/NOPB	LMC7211AIM5X/NOPB
LMC6024IM/NOPB	LMC6082AIM/NOPB	LMC6492BEM	LMC7211AIMX/NOPB
LMC6024IMX/NOPB	LMC6082AIMX/NOPB	LMC6492BEM/NOPB	LMC7211BIM
LMC6032IM	LMC6082AIN/NOPB	LMC6492BEMX/NAK1	LMC7211BIM/NOPB
LMC6032IM/NOPB	LMC6082IM	LMC6492BEMX/NOPB	LMC7211BIM5
LMC6032IMX/NOPB	LMC6082IM/NOPB	LMC6494AEM	LMC7211BIM5/HFLF
LMC6032IN/NOPB	LMC6082IMX	LMC6494AEM/NOPB	LMC7211BIM5/NOPB
LMC6034IM	LMC6082IMX/NOPB	LMC6494AEMX/NOPB	LMC7211BIM5X
LMC6034IM/NOPB	LMC6082IN/NOPB	LMC6494BEM/NOPB	LMC7211BIM5X/NOPB
LMC6034IMX/NOPB	LMC6084AIM/NOPB	LMC6494BEMX/NOPB	LMC7211BIM5X/S5000708
LMC6035IM/NOPB	LMC6084AIMX/NOPB	LMC6494BEMX/S5000651	LMC7211BIMX/NOPB
LMC6035IMM/NOPB	LMC6084IM/NOPB	LMC660AIM	LMC7215IM/NOPB
LMC6035IMMX/NOPB	LMC6084IMX/NOPB	LMC660AIM/NOPB	LMC7215IM5
LMC6035IMX/NOPB	LMC6442AIM/NOPB	LMC660AIMX	LMC7215IM5/NOPB
LMC6035IMX/S5000965	LMC6442AIMX/NOPB	LMC660AIMX/NAK1	LMC7215IM5X
LMC6035ITL/NOPB	LMC6442IM/NOPB	LMC660AIMX/NOPB	LMC7215IM5X/NOPB
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LMC6036IMTX/NOPB	LMC6462AIM/NOPB	LMC660CM/NOPB	LMC7221AIM5/NOPB
LMC6036IMX/ELLI904	LMC6462AIMX/NOPB	LMC660CMX/NOPB	LMC7221AIM5X/NOPB

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LMC6041AIM	LMC6462BIM/NOPB	LMC662AIM	LMC7221BIM
LMC6041AIM/NOPB	LMC6462BIMX/NOPB	LMC662AIM/NOPB	LMC7221BIM/NOPB
LMC6041AIMX/NOPB	LMC6462BIN/NOPB	LMC662AIMX	LMC7221BIM5
LMC6041IM/NOPB	LMC6462B-MDC	LMC662AIMX/NOPB	LMC7221BIM5/NOPB
LMC6041IMX/NOPB	LMC6464AIM	LMC662AIN/NOPB	LMC7221BIM5X
LMC6041IN/NOPB	LMC6464AIM/NOPB	LMC662CM	LMC7221BIM5X/NOPB
LMC6042AIJ	LMC6464AIMX	LMC662CM/NOPB	LMC7221BIMX
LMC6042AIM	LMC6464AIMX/NOPB	LMC662CMX	LMC7221BIMX/NOPB
LMC6042AIM/NOPB	LMC6464AMJ-QML	LMC662CMX/ELLI976	LMC7225IM5
LMC6042AIMX/NOPB	LMC6464BIM	LMC662CMX/NOPB	LMC7225IM5/NOPB
LMC6042AIN/NOPB	LMC6464BIM/NOPB	LMC662CN/NOPB	LMC7225IM5X/NOPB
LMC6042IM	LMC6464BIMX	LMC6762AIM	LMC8101TP/NOPB
LMC6042IM/NOPB	LMC6464BIMX/NOPB	LMC6762AIM/NOPB	LMC8101TPX/NOPB
LMC6042IMX/NOPB	LMC6464BIN/NOPB	LMC6762AIMX	LPC660AIM/NOPB
LMC6042IN/NOPB	LMC6482AI MDA	LMC6762AIMX/NOPB	LPC660AIMX/NOPB
LMC6044AIM	LMC6482AIM	LMC6762BIM	LPC660IM/NOPB
LMC6044AIM/NOPB	LMC6482AIM/NOPB	LMC6762BIM/NOPB	LPC660IMX/NOPB
LMC6044AIMX/NOPB	LMC6482AIMX	LMC6762BIMX	LPC662AIM
LMC6044IM	LMC6482AIMX/E7001821	LMC6762BIMX/NOPB	LPC662AIM/NOPB
LMC6044IM/NOPB	LMC6482AIMX/NAK1	LMC6772AIM	LPC662AIMX/NOPB
LMC6044IMX/NOPB	LMC6482AIMX/NOPB	LMC6772AIM/NOPB	LPC662IM/NOPB
LMC6044IN/NOPB	LMC6482AIN/NOPB	LMC6772AIMM	LPC662IMX/NOPB
LMC6044-MDC	LMC6482AMJ/883		

Qualification Report

DFAB Process qualification P2-AMPS (CP25 with depletion devices and poly 1 to poly 2 Cap) BCPALMC7101CZ8 - LMC7101QM5/NOPB

Approve Date 08-Feb-2018

Product Attributes

Attributes	Qual Device: LMC7101QM5/NOPB
Assembly Site	TIEM
Package Family	SOT
Flammability Rating	UL 94 V-0
Wafer Fab Supplier	DFAB -200
Wafer Process	P2-AMPS

- QBS: Qual By Similarity

- Qual Devices qualified at LEVEL1-260CG: LMC7101QM5/NOPB

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LMC7101QM5/NOPB
AC	Autoclave 121C	96 Hours	3/231/0
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	3/90/0
ELFR	Early Life Failure Rate, 150C	24 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	1500 V	3/9/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	Life Test, 150C	1000 Hours	3/231/0
LU	Latch-up	(per JESD78)	3/18/0
MQ	Manufacturability (Assembly)	(per automotive requirements)	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

Qualification Report

DFAB Process qualification P2-AMPS - BCPALMC6482BC8 - LMC6482AIM/NOPB (CP25 /Poly Fuse) Approve Date 05-Mar-2018

Product Attributes

Attributes	Qual Device: LMC6482AIM/NOPB
Assembly Site	TIEM
Package Family	SOIC
Flammability Rating	UL 94 V-0
Wafer Fab Supplier	DFAB -200
Wafer Process	P2-AMPS

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL1-260CG: LMC6482AIM/NOPB

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LMC6482AIM/NOPB
AC	Autoclave 121C	96 Hours	3/231/0
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	3/90/0
ELFR	Early Life Failure Rate, 150C	24 Hours	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0
HBM	ESD - HBM	1500 V	3/9/0
CDM	ESD - CDM	1500 V	3/9/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	Life Test, 150C	300 Hours	3/231/0
LU	Latch-up	(per JESD78)	3/18/0
MQ	Manufacturability (Assembly)	(per motive requirements)	Pass
MQ	Manufacturability (Wafer Fab)	(per mfg. Site specification)	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0

- Preconditioning was performed forclave, 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