


Standardized Information for Process/Product Change Notification (PCN)

From: Version on 2019-10-04 - Revision: 1.0

1. PCN basic data					
Customer	Name Customer:				
	Contact Email address:				
	Site submitting the change:		Melexis Ieper		
	Affected site(s):	Melexis Supplier	Melexis Ieper	Melexis Erfurt	Melexis Sofia
	1.1 Company	MCM-5707			
1.2 PCN No.	Business Continuity Plan Unisem Batam Products				
1.3 Title of PCN	Active Components - Integrated Circuits				
1.4 Product Category	16-07-19				
1.5 Issue date	1.5 PCN revision history (optional)				
V1.0	1.7 Issue date of previous revision	1.8 Delta to previous revision (optional)			
V2.0	15-07-19	Initial PCN			
V3.0	29-08-19	Initial PCN update			
	18-06-20	Final PCN - products in UA GR			

2. PCN Team		
2.1 Contact supplier	pcn_mlx (Lisa Vanheerswynghels)	
2.1.1 Name	+32 57 22 62 07	
2.1.2 Phone	pcn_mlx@melexis.com	
2.1.3 Email		
2.2 Team supplier (optional)	2.2.1 Name (optional)	2.2.3 Email (optional)
Hanne Thielen Customer Communication Coordination		hth@melexis.com
Vincent Vanzeven Global Quality Manager		vyn@melexis.com
Karen Stinckens Global Purchasing Manager		kss@melexis.com
Tim Vanwesen Package Architect		tmv@melexis.com
Arnaud Devos Functional Safety and Reliability Manager		ade@melexis.com

3. Changes			
No.	3.0 Ident	3.1 Category	3.2 Type of change
#1	SEM-PA-18	PROCESS - ASSEMBLY	Move of all or part of assembly to a different location/site/subcontractor
#2	SEM-PA-02	PROCESS - ASSEMBLY	Change of leadframe base material
#3	SEM-PA-07	PROCESS - ASSEMBLY	Die attach material
#4	SEM-PA-16	PROCESS - ASSEMBLY	Change of direct material supplier
#5	SEM-PA-17	PROCESS - ASSEMBLY	Change of specified-assembly process sequence (deletion and/or additional process step)
#6	SEM-PA-19	PROCESS - ASSEMBLY	Die Scribe or separation
#7	SEM-EQ-02	EQUIPMENT	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.

4. Description of change	
Change #	New
Change #1	Assembly house location : Unisem Batam (Indonesia)
Change #2	C151
Change #3	CRM1076WA
Change #4	leadframe supplier: HDS gold wire supplier: Henness
Change #5	Process sequence Unisem : Plating -> Dejunk / Trim / Singulation
Change #6	die sawing method: Single
Change #7	sawing, plasma cleaning, molding
4.6 Anticipated impact on form, fit, function, reliability or processability?	- Based on Risk Assessment including AEC-Q100 and ZVEI guidelines - Use of package generic qualification data (from the assembly houses and Melexis) considering Automotive Grades, Assembly Bill-of-Material & Bill-of-Process and Wafer Technology - Whenever possible, re-use of Melexis qualified Bill-of-Material & Bill-of-Process will be applied
4.7 Reference parts with customer number	

5. Reason / motivation for change	
5.1 Motivation	Discontinuation communication from Unisem about operations closure at Unisem Batam by 30-Sep-2019.
5.2 Additional explanation (optional)	On 28-Jun-2019 Melexis received formal notification about Unisem Batam Operations discontinuation (see Melexis letter dated 01-Jul-2019). Melexis is using Unisem Batam as subcontractor for the assembly of several products. Subsequently, Melexis has decided to execute its Business Continuity Plan and activate alternative sources to the fullest extent.

6. Marking of parts / traceability of change	
6.1 Description	Traceability through lot number and shipment date.

7. Timing / schedule	
7.1 Date of qualification results	available
7.2 Last order date (optional)	Closed
7.3 Last delivery date (optional)	Q4 2019
7.4 Intended start of delivery	Q2 2020
7.5 Qualification samples available?	Yes available
7.6 Customer feedback required until	30-Jun-2020

8. Qualification / validation	
8.1 Description (e.g. qual. plan/report, AEC-Q...)	- Based on Risk Assessment including AEC-Q100 and ZVEI guidelines - Use of package generic qualification data (from the assembly houses and Melexis) considering Automotive Grades, Assembly Bill-of-Material & Bill-of-Process and Wafer Technology - Whenever possible, re-use of Melexis qualified Bill-of-Material & Bill-of-Process will be applied
8.2 Qualification report and qualification results	available (see attachment)      issue date

9. Input to customer for risk assessment process	
See attached presentation: BOM & BOP Risk Assessment	

10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)	
BOM & BOP Risk Assessment UA without Cap_Final_Lingsen.pdf MLX92211_Product_Qualification_Report.pdf MLX92241_Product_Qualification_Report.pdf MLX92242_Product_Qualification_Report.pdf	

11. Affected parts									
11.1 Current					11.2 New (if applicable)				
11.1.1 Customer Part No.	11.1.2 Supplier Part Name	11.1.3 Assembly House	11.1.4 Package Name	11.1.5 Part Description (optional)	11.1.6 Additional Part Information (optional)	11.2.2 Supplier Part Name	11.2.3 Assembly House	11.2.4 Package Name	11.2.6 Additional Part Information (optional)
N/A	MLX922111UA-AAA-000-BU	Unisem Batam	UA GR			MLX922111UA-AAA-000-BU	Lingsen, Taiwan	UA GR	
N/A	MLX922411UA-AAA-003-BU	Unisem Batam	UA GR			MLX922411UA-AAA-003-BU	Lingsen, Taiwan	UA GR	
N/A	MLX922411UA-AAA-005-BU	Unisem Batam	UA GR			MLX922411UA-AAA-005-BU	Lingsen, Taiwan	UA GR	
N/A	MLX922411UA-AAA-007-BU	Unisem Batam	UA GR			MLX922411UA-AAA-007-BU	Lingsen, Taiwan	UA GR	
N/A	MLX922421UA-AAA-000-BU	Unisem Batam	UA GR			MLX922421UA-AAA-000-BU	Lingsen, Taiwan	UA GR	
N/A	MLX922311UA-AAA-000-BU	Unisem Batam	UA GR			MLX922311UA-AAA-000-BU	Lingsen, Taiwan	UA GR	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life until Q1/2021
N/A	MLX922411UA-AAA-003-BU	Unisem Batam	UA GR			MLX922411UA-AAA-003-BU	Lingsen, Taiwan	UA GR	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life until Q1/2021
N/A	MLX922411UA-AAA-005-BU	Unisem Batam	UA GR			MLX922411UA-AAA-005-BU	Lingsen, Taiwan	UA GR	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life until Q1/2021
N/A	MLX922411UA-AAA-007-BU	Unisem Batam	UA GR			MLX922411UA-AAA-007-BU	Lingsen, Taiwan	UA GR	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life until Q1/2021
N/A	MLX922421UA-AAA-000-BU	Unisem Batam	UA GR			MLX922421UA-AAA-000-BU	Lingsen, Taiwan	UA GR	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life until Q1/2021

**Customer Feedback/Approval Form**

Form based on ZVEI - Revision 3.0.0

<b>Title of PCN:</b>			
Business Continuity Plan Unisem Batam Products			

<b>Customer PCN No.</b>		<b>Supplier PCN No.</b>	<b>MCM-5707</b>
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**Please check the appropriate box below:**

<b>1. Feedback</b>	<b>date:</b>	
We agree with this proposed change for the parts as listed in chapter '11. Affected parts'. Approval letter will be sent in written form.		
We agree with this proposed change schedule and will start with the PCN process. Approval letter will be sent in written form after evaluation.		
We disapprove because:		
<b>Remark:</b>		

<b>2. Feedback</b>	<b>date:</b>	
We acknowledge qualification / validation as assigned in chapter 8 of the PCN.		
We need more information:		
We need the following samples:		
<b>Estimated closing date for PCN:</b>		

<b>Final Feedback/Approval</b>	<b>date:</b>	

<b>Sender:</b>	
<b>Company:</b>	
<b>Name:</b>	
<b>Address/Location:</b>	
<b>Signature:</b>	
<b>Date:</b>	

<b>Please return to: [your Sales partner]</b>	
<b>Name:</b>	pcn_mlx (Lisa Vanheerswyngiels)
<b>Address/Location:</b>	
<b>Phone:</b>	+32 57 22 62 07
<b>Fax:</b>	
<b>Email:</b>	pcn_mlx@melexis.com