


Standardized Information for Process/Product Change Notification (PCN)

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

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	pcn_mlx (Lisa Vanheerswynghels)	
2.1.2 Phone	+32 57 22 62 07	
2.1.3 Email	pcn_mlx@melexis.com	
2.2 Team Supplier (optional)		
2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)
Hanne ThielesCustomer Communication Coordination		hth@melexis.com
Vincent VanzevenGlobal Quality Manager		vvn@melexis.com
Karen StinckensGlobal Purchasing Manager		kss@melexis.com
Tim VanervenPackage Architect		tmv@melexis.com
Arnaud DevosFunctional 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-07	PROCESS - ASSEMBLY	Die attach material
#3	SEM-PA-16	PROCESS - ASSEMBLY	Change of direct material supplier
#4	SEM-PA-17	PROCESS - ASSEMBLY	Change of specified-assembly process sequence (deletion and/or additional process step)
#5	SEM-PA-19	PROCESS - ASSEMBLY	Die Scribe or separation
#6	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 #	Old	New
Change #1	Assembly house location : Unisem Batam (Indonesia)	Assembly house location : See section 11.
Change #2	topic is subject of the capacitor attach material only: F541 HBF.HBCDD free	topic is subject of the capacitor attach material only: M705-RGS800HF No Clean (SAC305)
Change #3	capacitor attach supplier: Heraeus gold wire supplier: Heraeus	capacitor attach supplier: SMI gold wire supplier: Tanaka
Change #4	Process sequence Unisem : Plating -> Dejunk / Trim / Singulation	Process sequence Lingsen : Dejunk / Trim -> Plating -> Singulation
Change #5	die sawing method: Single	die sawing method: Dual
Change #6		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 with Cap_Final_Lingsen.pdf MLX92221_MLX92241_MLX92242_UA_cap_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	MLX92242LUA-AAA-100-BU	Unisem Batam	UA GR CAP			MLX92242LUA-AAA-100-BU	Lingsen, Taiwan	UA GR CAP	
N/A	MLX92242LUA-AAA-100-BU	Unisem Batam	UA GR CAP			MLX92242LUA-AAA-100-BU	Lingsen, Taiwan	UA GR CAP	- was for intermediate solution only - the PCN does not cover and support the intermediate solution anymore - the intermediate solution go to End of Life

**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