

Standardized Information for Process/Product Change Notification (PCN)

Based on the JEDEC Standard JESD46 standard (latest release)

Not for publication unless permission is granted by LEM		1. PCN basic data	
1.1 Company	 LEM Life Energy Motion	LEM International SA Route du Nant d'Avril 152 1217 Meyrin Switzerland	
1.2 PCN No.	PCN-060_2024_0-OMTO2423401		
1.3 Title of PCN			
1.4 Product Category	Electronic module - Current sensor		
1.5 Issue date	18/09/2024		
1.6 PCN revision history (optional)	1.7 Issue date of previous revision (optional)	1.8 Delta to previous revision (optional)	

Form provided by ZVETI - Revision 5.0

2. PCN Team			
2.1 Contact supplier			
2.1.1 Name	Magdalena Peycheva - Product Life Cycle Coordinator		
2.1.2 Phone			
2.1.3 Email	Mpy@lem.com		
2.2 Team supplier (optional)			
2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)	
Stéphane Rollier - Product Life Cycle manager	0041227061449	sro@lem.com	

3. Changes			
No.	3.0 Ident	3.1 Category	3.2 Type of change
#1	SEM-DS-01	DATA SHEET	Change of datasheet parameters/electrical specification (min./max./typ. values) and/or AC/DC specification
#2	SEM-PA-05	PROCESS - ASSEMBLY	Change of lead and heat slug plating material/plating thickness (external)
#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)

4. Description of change		
	Old	New
Change #1	Plating material Tin Bismuth (SnBi) on POD drawing	Plating material 100% Matte Tin
Change #2	Tin Bismuth (SnBi) 3-13µm	100% Matte Tin (Sn) 8-15µm
Change #3	Plating process at subcontractor in Indonesia	Plating process at assembly site in Indonesia
Change #4	No annealing Marking before plating	Annealing 155±5°C 1H Marking after plating

4.1 Anticipated impact on form, fit, function, reliability or processability?	No impact on form, fit or function. Following internal risk assessment and ZVEI/AEC-Q100 recommendations, impact on solderability, product reliability, whisker growth and processability to be assessed.
4.2 Reference parts with customer number (optional)	

5. Reason / motivation for change	
5.1 Motivation	Change required due to current subcontractor operations discontinuation.
5.2 Additional explanation (optional)	More detailed information about the change according to the enclosed document (pdf file ref: "HMSR Products - New plating line")

6. Marking of parts / traceability of change	
6.1 Description	No change in marking of parts. Traceability ensured by assembly lot number and date code through OSAT ERP system.

7. Timing / schedule		
7.1 Date of qualification results		Week 42 2024
7.2 Last order date (optional)		
7.3 Last delivery date (optional)		
7.4 Intended start of delivery		Week 44 2024
7.5 Qualification samples available?		Samples can be requested to Product Life Cycle coordinator or through Sales contact.
7.6 Customer feedback required until	2024/10/11	

8. Qualification / validation		
8.1 Description (e.g. qual. plan/report, AEC-Q...)	Refer to Qualification Plan sheet in the attached slides (pdf file ref: "HMSR Products - New plating line")	
8.2 Qualification report and qualification results	will be available at date	issue date 2024/10/18

9. Input to customer for risk assessment process		
Details in attached slides (pdf file ref: "HMSR Products - New plating line")		

10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)										

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 Supplier Part No. (optional)	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 Supplier Part No. (optional)	11.2.4 Package Name	11.2.6 Additional Part Information (optional)	
HMSR 6-SMS	90.T4.09.000.0		HMSR							
HMSR 8-SMS	90.T4.11.000.0		HMSR							
HMSR 10-SMS	90.T4.13.000.0		HMSR							
HMSR 15-SMS	90.T4.15.000.0		HMSR							
HMSR 20-SMS	90.T4.17.000.0		HMSR							
HMSR 20-SMS/SP11	90.T4.17.011.0		HMSR							
HMSR 30-SMS	90.T4.20.000.0		HMSR							
HMSR DA 5-2 54000	90.V5.05.004.0		HMSR							
HMSR DA 10-4 50000	90.V5.07.000.0		HMSR							
HMSR DA 15-6 50000	90.V5.09.000.0		HMSR							
HMSR DA 15-6 54000	90.V5.09.004.0		HMSR							
HMSR DA 20-8 50000	90.V5.11.000.0		HMSR							
HMSR DA 20-8 54000	90.V5.11.004.0		HMSR							
HMSR DA 25-10 50000	90.V5.13.000.0		HMSR							
HMSR DA 25-10 54000	90.V5.13.004.0		HMSR							

Customer Feedback/Approval Form

Form provided by ZVEI - Revision 5.0

Title of PCN:			
Customer PCN No.		Supplier PCN No.	PCN-060_2024_0-OMTO2423401
Please check the appropriate box below:			
1. feedback to be provided within 2 weeks after the reception of the PCN.			
<input type="checkbox"/>	1. Feedback	date:	
<input type="checkbox"/>	We agree with this proposed change for the parts as listed in chapter '11. Affected parts'. Approval letter will be sent in written form.		
<input type="checkbox"/>	We agree with this proposed change schedule and will start with the PCN process. Approval letter will be sent in written form after evaluation.		
<input type="checkbox"/>	We disapprove because:		
<input type="checkbox"/>			
<input type="checkbox"/>	Remark:		
<input type="checkbox"/>			
2. feedback to be provided within 4 weeks after the reception of the PCN.			
<input type="checkbox"/>	2. Feedback	date:	
<input type="checkbox"/>	We acknowledge qualification / validation as assigned in chapter 8 of the PCN.		
<input type="checkbox"/>	We need more information:		
<input type="checkbox"/>	We need the following samples:		
<input type="checkbox"/>	Estimated closing date for PCN:		
<input type="checkbox"/>			
Final Feedback/Approval			
<input type="checkbox"/>	Final Feedback/Approval	date:	
<input type="checkbox"/>			

Sender:	
Company:	
Name:	
Address/Location:	
Signature:	
Date:	

Please return to: [your Sales partner]	
Name:	Magdalena Peycheva - Product Life Cycle Coordinator
Address/Location:	
Phone:	
Fax:	
Email:	Mpy@lem.com

In case LEM does not receive any feedback within 4 weeks at the latest after PCN notification, LEM will assume:

- Customer acceptance to the change
- No need for samples
- No additional need

