Standardized Information for Process/Product Change Notification (PCN)

1. PCN basic data		
1.1 Company	TAIWAN SEMICONDUCTOR	
1.2 PCN No.	PCN17027	
1.3 Title of PCN	A new fully-automated SMC backend assembly line increase for Consumer	
1.4 Product Category	Active Components − Discrete Components	▼
1.5 Issue date	2017/09/15	
1.6 PCN revision history (optional)	**1.7 Issue date of previous revision (optional)**	**1.8 Delta to previous revision (optional)**

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	Sunnie Pan	
2.1.2 Phone	+886-2-8913-1588 Ext:2205	
2.1.3 Email	sunnie@mail.ts.com.tw	
2.2 Team supplier (optional)		
2.2.1 Name (optional)	**2.2.2 Phone (optional)**	**2.2.3 Email (optional)**
Dino Ho	+886-2-8913-1588 Ext:2123	dino@mail.ts.com.tw
Vince Li	+86-543-869-1091 Ext:3101	vince@mail.tsyew.com.cn
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3. Changes			
No.	**3.0 Ident**	**3.1 Category**	**3.2 Type of change**
#1	**SEM-PA-13**	PROCESS - ASSEMBLY	Change of product marking
#2	**SEM-PA-14**	PROCESS - ASSEMBLY	Change in process technology (e.g. sawing, die attach, bonding, moulding, plating, trim and form, lead frame preperation, …)
#3	**SEM-PA-16**	PROCESS - ASSEMBLY	Change of direct material supplier
#4	**SEM-PS-01**	PACKING/SHIPPING	Packing/shipping specification change
#5	**SEM-PS-03**	PACKING/SHIPPING	Change of carrier (tray, reel)

4. Description of change		
	Old	**New**

Change #1	1. Manual SMC
	   Marking no square around datecode
		1. Manual SMC
		   Marking no square around datecode
		
		2.Fully-automated SMC
		   Marking add special square around datecode

Change #2	1. Manual SMC production line	1.Manual SMC production line 2.Fully-automated SMC production line only for green product

Change #3	1. Manual SMC Lead Frame
	   Supplier : A
	   Material : KFC
		1. Manual SMC Lead Frame
		   Supplier : A
		   Material : KFC
		
		2.Fully-automated SMC Lead Frame
		   Supplier : B
		   Material : KFC

Change #4	1. Manual SMC Packing code M6:13" Diameter Plastic Reel R6:13" Diameter Paper Reel R7:7" Diameter Plastic Reel	1. Manual SMC Packing code M6:13" Diameter Plastic Reel R6:13" Diameter Paper Reel R7:7" Diameter Plastic Reel 2.Fully-automated SMC Packing code V6 :13" Diameter Plastic Reel V7: 7" Diameter Plastic Reel
Change #5	Packing Refer to the picture of the comparison report	Packing Refer to the picture of the comparison report
4.6 Anticipated impact on form, fit, function, reliability or processability?	No impact in form, fit, function and reliability but better processability for less human handling	
4.7 Reference parts with customer number (optional)		

5. Reason / motivation for change	
5.1 Motivation	Add a new SMC matrix assembly line
5.2 Additional explanation (optional)	

6. Marking of parts / traceability of change	
6.1 Description	Use diferent packing code to control

7. Timing / schedule		
7.1 Date of qualification results	2017/07/27	
7.2 Last order date (optional)		Not applicable
7.3 Last delivery date (optional)		Not applicable
7.4 Intended start of delivery	2017/12/15	
7.5 Qualification samples available?	When get customer order and after 2 weeks can be submitted	
7.6 Customer feedback required until	2017/10/16	

8. Qualification / validation			
8.1 Description (e.g. qual. plan/report, AEC-Q...)	According to AEC-Q101		
8.2 Qualification report and qualification results	available (see attachement)	issue date	2017/07/27

9. Input to customer for risk assessment process
Human Resource : Low Risk Equipment : Low Risk Technique-Wafer : Low Risk Technique-Assembly : New process Sample submit time : within 14 days Form/ Fit / Function : Low Risk Reliability : Low Risk

10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)
Please see in the official announcement mail.

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 n (optional)	11.1.6 Additional Part Information	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)