Standardized Information for Process/Product Change Notification (PCN)

1. PCN basic data	
1.1 Company	TAIWAN SEMICONDUCTOR
1.2 PCN No.	PCN17007-1
1.3 Title of PCN	A new fully-automated SMA backend assembly line increase
1.4 Product Category	Active Components – Discrete Components
1.5 Issue date	2019/01/10

1.6 PCN revision history (optional)	1.7 Issue date of previous revision (optional)	1.8 Delta to previous revision (optional)
PCN17007	2017/02/07	A new fully-automated SMA backend assembly line increase

Form provided by ZVEI - Revision 3.0.0

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	Sunnie Lin	
2.1.2 Phone	+886-2-8913-1588 Ext:2205	
2.1.3 Email	sunnie.lin@mil.ts.com.tw	
2.2 Team supplier (optional)		
2.2.1 Name (optional)	**2.2.2 Phone (optional)**	**2.2.3 Email (optional)**
Danny Lin	+886-2-8913-1588 Ext:2133	danny_lin@mail.ts.com.tw
Vince Lee	+86-543-869-1091 Ext:3101	vince@mail.tsyew.com.cn
May Zhang	+86-543-869-1091 Ext:3108	may@mail.tsyew.com.cn

3. Changes			
No.	**3.0 Ident**	**3.1 Category**	**3.2 Type of change**
#1	SEM-PA-03	PROCESS - ASSEMBLY	Change in leadframe dimensions
#2	SEM-PA-11	PROCESS - ASSEMBLY	Change of mold compound / encapsulation material
#3	SEM-PA-13	PROCESS - ASSEMBLY	Change of product marking
#4	SEM-PA-14	PROCESS - ASSEMBLY	Change in process technology (e.g. sawing, die attach, bonding, moulding, plating, trim and form, lead frame preperation, …)
#5	SEM-PS-03	PACKING/SHIPPING	Change of carrier (tray, reel)

4. Description of change		
	Old	**New**
Change #1	manual SMA production line	Increase fully-automated SMA production line
Change #2	Lead Frame Supplier : A Material : Copper	Lead Frame Supplier : B Material : Copper
Change #3	Molding Compound Consumer (Non-HF) Type: EME-1100 Supplier : A Material : Epoxy Consumer (HF) Type: EME-E110 Supplier : A Material : Epoxy	Molding Compound Consumer (HF) Type: EME-E500 Supplier : A Material : Epoxy
Change #4	Marking no square around datecode	Marking add special square around datecode
Change #5	Packing 13" Paper Reel & 13" Plastic Reel	Packing 13" Plastic Reel
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	To increase SMA capacity in assembly line for green and non-green
5.2 Additional explanation (optional)	

6. Marking of parts / traceability of change	
6.1 Description	Use the datecode control

7. Timing / schedule		
7.1 Date of qualification results	2016/09/29	
7.2 Last order date (optional)		Not applicable
7.3 Last delivery date (optional)		Not applicable
7.4 Intended start of delivery	2019/07/01	
7.5 Qualification samples available?	When get customer order and after 2 weeks can be submitted	
7.6 Customer feedback required until	2019/02/16	

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	2016/09/29	

9. Input to customer for risk assessment process
Human Resource : Low Risk Equipment : Low Risk Technique-Wafer : Low Risk Technique-Assembly : Low Risk Sample submit time : within 30 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 (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)**