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PCN17007-1 Comparison Report

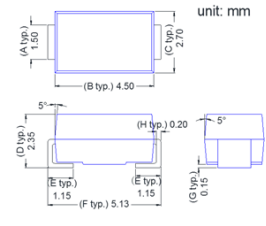
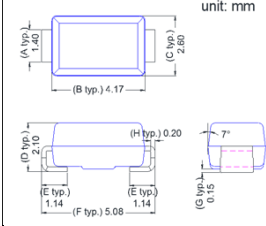
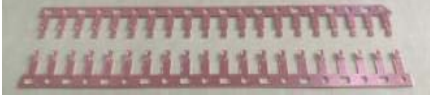

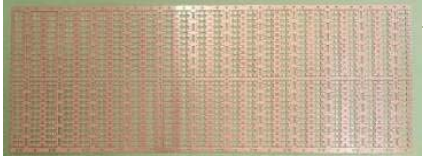
【A new fully-automated SMA backend assembly line increase】

Prepared by May Zhang
Checked by Venkey
Approved by Keller
Issued date a 2017.2.16
Reversion for B

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Comparison report

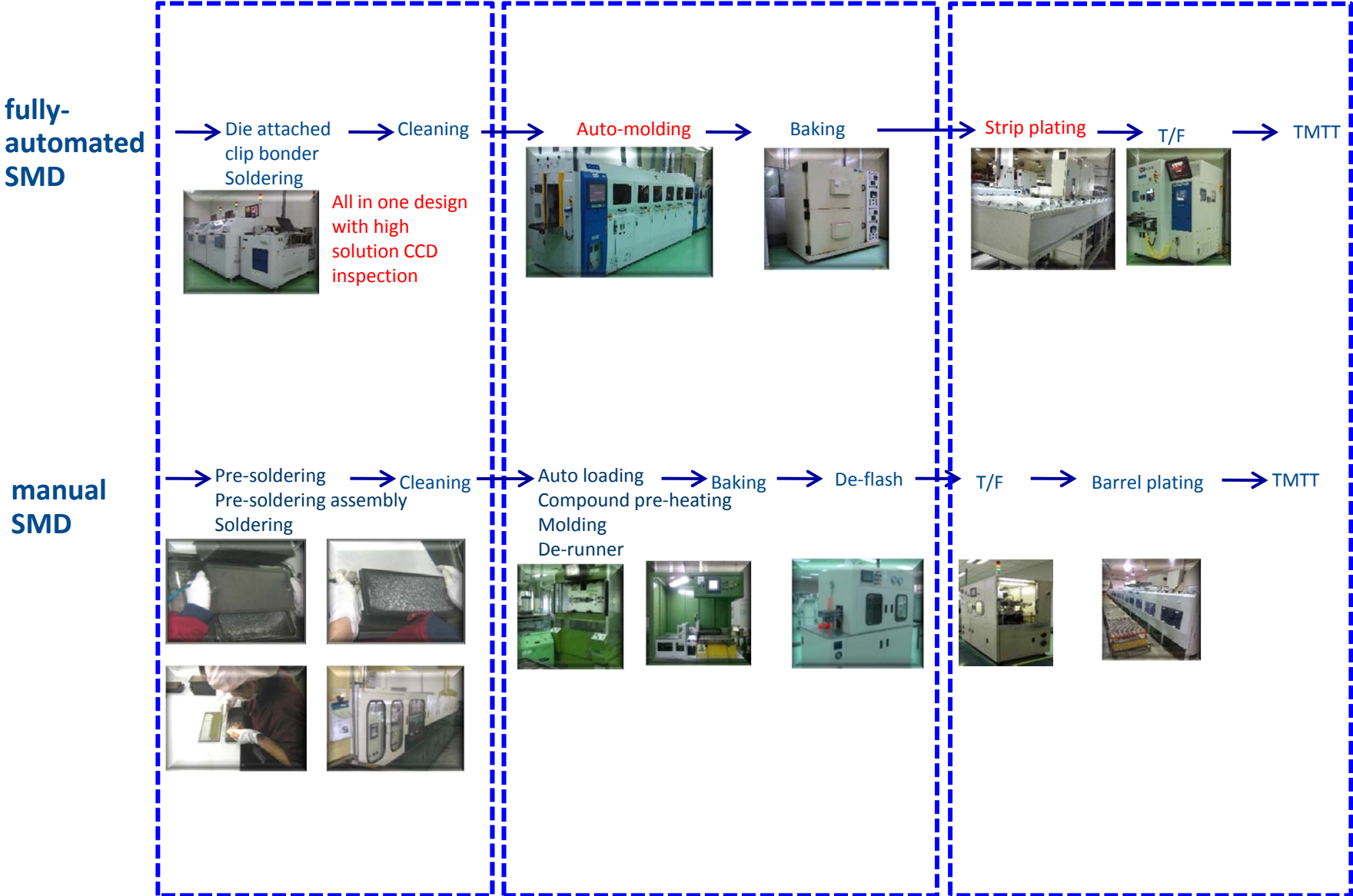
Subject PCN NO: PCN17007-1
Consumer SMA Comparison Report

No	Item	Before	After	Remark
1	Processes	manual SMA production line	1.manual SMA production line 2.fully-automated SMA production line	Refer the attached 1.Processes Comparison
2	General appearance	Follow D/S POD refer to the attached	Follow D/S POD refer to the attached	Refer the attached 2.SMA Appearance
3	Package Outline	Follow D/S Spec. unit: mm 	Follow D/S Spec. unit: mm 	
4	Lead Frame	Supplier : A Material : Copper 	1. manual SMA Supplier : A Material : Copper  2. fully-automated SMA Supplier : B Material : Copper 	
5	Molding Compound	Consumer (Non-HF) Type: EME-1100 Supplier : A Material : Epoxy Consumer (HF) Type: EME-E110 Supplier : A Material : Epoxy	1.manual SMA Consumer (Non-HF) Type: EME-1100 Supplier : A Material : Epoxy Consumer (HF) Type: EME-E110 Supplier : A Material : Epoxy 2. fully-automated SMA Consumer (HF) Type: EME-E500 Supplier : A Material : Epoxy	







6	Marking	Marking no square around datecode	1.manual SMA Marking no special square around datecode 2. fully-automated SMA Marking add special square around datecode	Refer the attached 6.Marking
7	Packing	13" Paper Reel & 13" Plastic Reel refer to the attached	1.manual SMA Marking 13" Paper Reel & 13" Plastic Reel 2. fully-automated SMA Marking 13" Plastic Reel	Refer the attached 7.Packing

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Processes Comparison---fully-automated SMD vs manual SMD processes

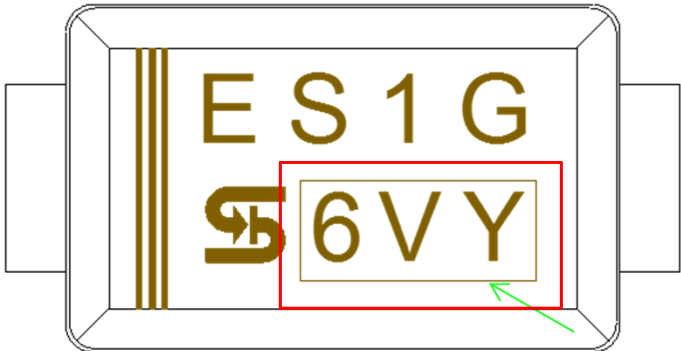
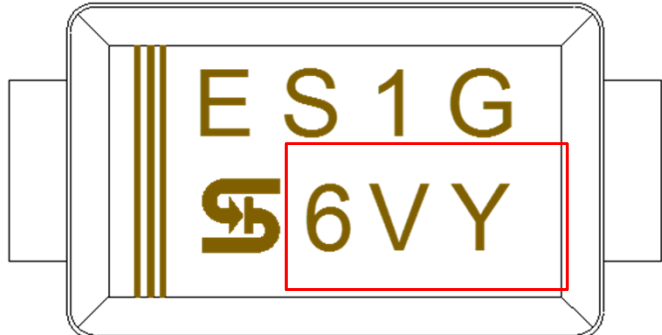




Appearance Comparison---fully-automated SMA & SMA

Item	fully-automated SMA	SMA
Top	 A top-down view of a black, rectangular SMA component with two silver-colored metal tabs on the left and right sides. The component has a smooth, uniform surface.	 A top-down view of a black, rectangular SMA component with two silver-colored metal tabs on the left and right sides. The component appears slightly less uniform than the fully-automated version.
Side	 A side view of the fully-automated SMA component. A red box highlights the right edge, showing a smooth, uniform profile.	 A side view of the SMA component. A red box highlights the right edge, showing a slightly irregular and less uniform profile compared to the fully-automated version.
Bottom	 A bottom view of the fully-automated SMA component, showing two silver-colored metal tabs on the left and right sides. The central area is a uniform black.	 A bottom view of the SMA component, showing two silver-colored metal tabs on the left and right sides. The central area is black, but it appears slightly less uniform than the fully-automated version.

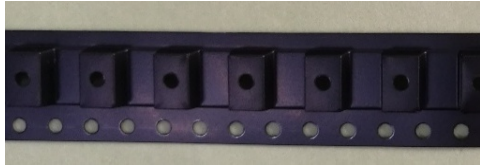
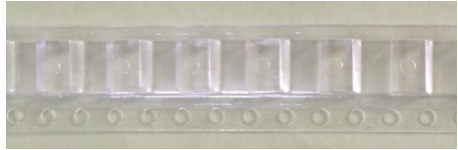
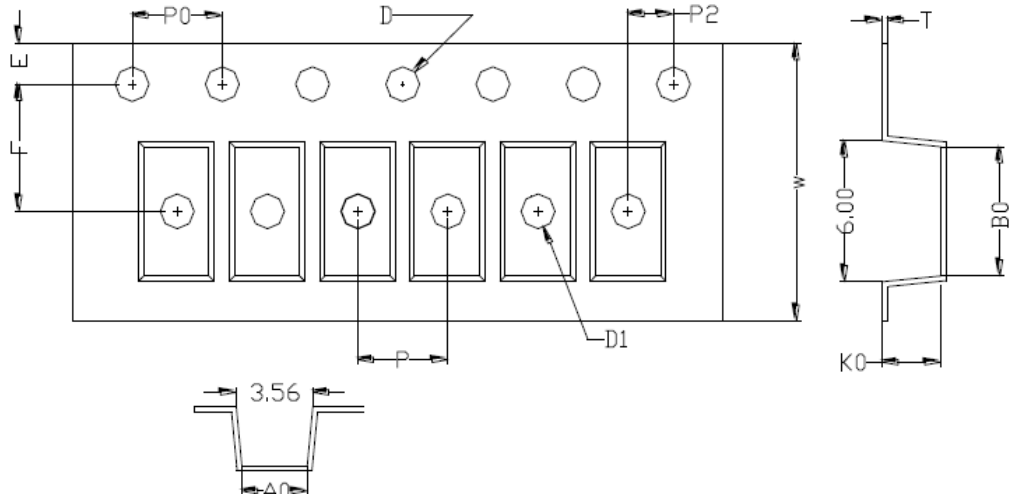
Uniform forming designed

Identified marking on device between fully-automated SMD VS manual SMD




fully-automated SMD	manual SMD
	
	

Device special square around datecode during marking to identified new fully-automated SMD comparing with before

fully-automated SMD APPLIED STATIC FREE PACKING INSTEAD ANTi_ESD

Package	fully-automated SMD (Static Free)	Original SMD (Anti-ESD)
Carry	 <p>Surface resistance $10^6 \sim 10^8$; Term of validity: permanent</p> <p>SMA:A0:2.80mm;B0:5.33mm;K0:2.35mm SMB:A0:3.70mm;B0:5.55mm;K0:2.35mm A0:width B0:length K0:height</p>	 <p>Surface resistance: $10^6 \sim 10^{11}$ Term of validity: 12 months</p> <p>SMA:A0:2.90mm; B0:5.59mm;K0:2.36mm SMB:A0:3.76mm; B0:5.69mm;K0:2.67mm A0:width B0:length K0:height</p>
	 <p>Technical drawing showing dimensions: E, L, P0, D, P2, T, W, B0, K0, D1, P, and A0.</p>	

fully-automated SMD APPLIED STATIC FREE PACKING INSTEAD ANTI_ESD

Package	fully-automated SMD (Static Free)	Original SMD (Anti-ESD)	
Reel	 <p>13" Plastic Reel Surface resistance <math>< 10^8</math></p>	 <p>13" Paper Reel</p>	 <p>13" Plastic Reel Surface resistance <math>< 10^{11}</math></p>
Pizza Box	