## SHEMMAO Solder Preform

## Reliability Improvement on Solder Joints

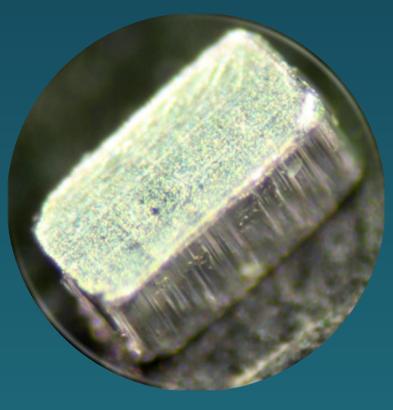


## **Specification**

Model	Size (mm)			Volume	Packaging
	Length	Width	Thickness	(mm <sup>3</sup> )	Quantity (7"Reel)
0201	0.51	0.25	0.25	0.03	10000 pcs
0402	1.00	0.50	0.50	0.25	5000 pcs
0603	1.60	0.80	0.80	1.02	4000 pcs
0805	2.01	1.30	0.76	1.98	<b>3000 pcs</b>

Dimensional Tolerances: Length and width: ±0.05mm, thickness: ±10% Applicable Alloy: SAC305, SAC105, SC07, and other soft soldering alloy Please inquire for your own alloy, form and size specification.

## Features



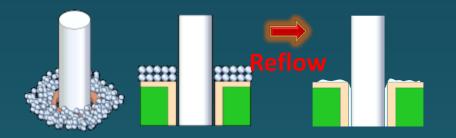
Reduce Wave Soldering
Increase Solder Volume
Reliability Improvement
Process Yield Improvement

Self-Alignment

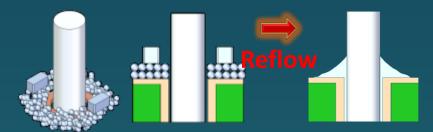
Reduce Pick&Place Error Rates

## **Reduce Wave Soldering**

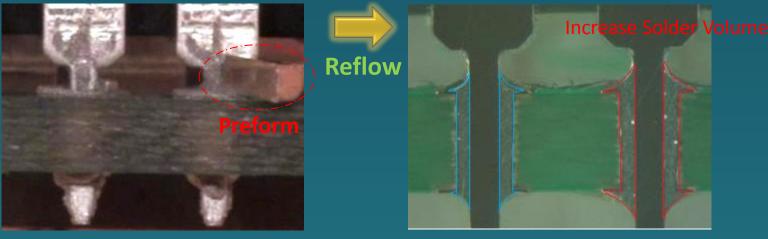
### **Conventional Process**



### **Solder Preform Process**



#### **Better Wetting Condition**



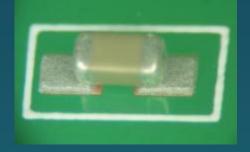
Conventional Solder Preform

Conventional

**Solder Preform** 

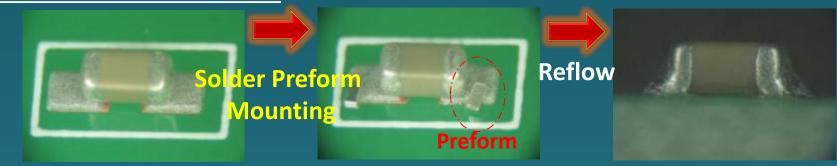
## **Increase Solder Volume**

#### **Conventional Process**





#### **Solder Preform Process**



Increase Solder Volume

## **Increase Solder Volume**

#### **Conventional Process**

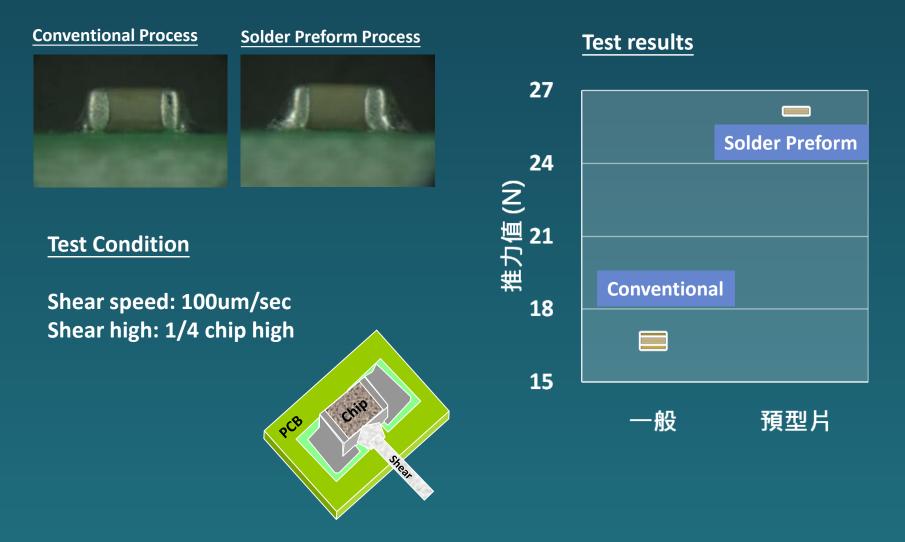




#### **Solder Preform Process**



## **Reliability Improvement**



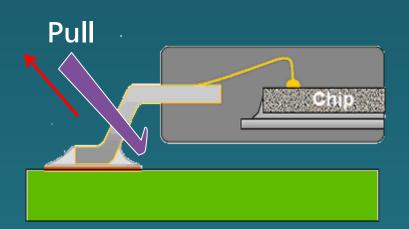
## **Reliability Improvement**

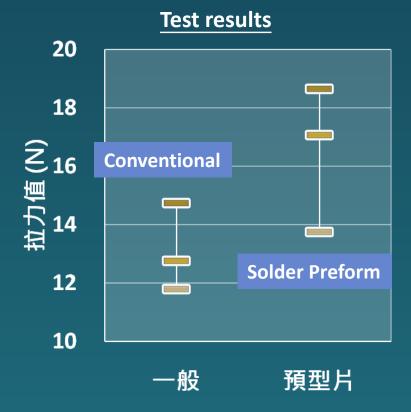
#### **Conventional Process**



#### Solder Preform Process

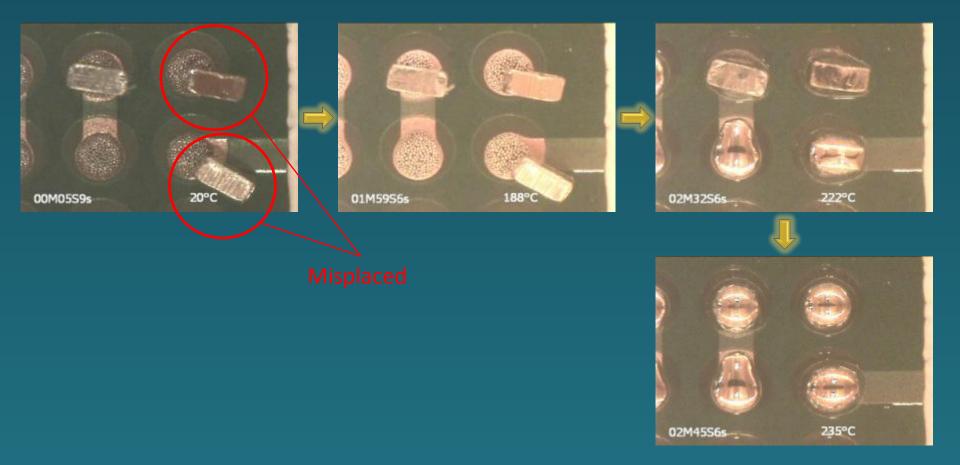
#### **Test Condition**





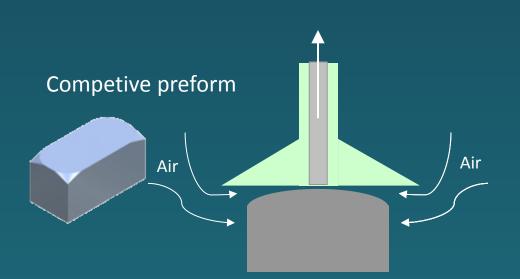
## **Process Yield Improvement**

## Self-Alignment of Misplaced Solder Preform



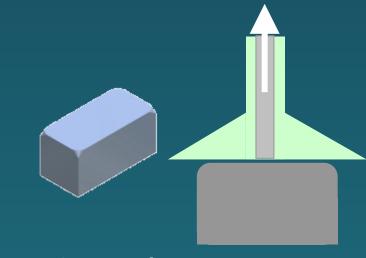
## **Process Yield Improvement**

#### Reduce pick error rates



Nozzle performance reduced due to no planar surface

#### SHENMAO Solder Preform



Planar surfaceExcellent nozzle suctionHigh placement accuracy



# THANKS!

## SHENMAO Technology Inc. Your Ultimate Choice for Solder