

# PRODUCT / PROCESS CHANGE INFORMATION

## SHIELDING BAG for SHENZHEN 4-layer PPF(\*) SO8 & TSSOP8 REELS AND TUBES

#### What is the change?

The reels and tubes of selected packages with Pre plated lead frames will be packed into a shielding bag (\*\*). Perimeter of this PCI are the first packages impacted by this change: 4-layer PPF SO8N & TSSOP8 packages (\*\*\*) from ST Shenzhen (China) of MMS Group.

(\*) PPF: Pre plated frame (\*\*) (Plastic, transparent, antistatic) (\*\*\*) (See product list in Appendix B)

#### Why?

This shielding bag will protect the product during exposure to uncontrolled environment before product usage (transportation/storage).

#### When?

The new packing of the 4-layer MMS PPF SO8N & TSSOP8 packages assembled at ST Shenzhen (China) will start from September 2015. List of additional products and plants impacted by the change will be provided through additional PCI by WW40 2015, including schedule for their change start date.

#### How will the change be qualified?

The packing with the shielding bag has been qualified using the standard ST Microelectronics Corporate Procedures for Quality & Reliability.

The Qualification Report QRMMY1513 is included inside this document.

#### What is the impact of the change?

- Form: Transparent shielding bag (packing material)

- Fit: N/A

- Function: N/A

#### How can the change be seen?

Change will be seen at unpacking.

### **Appendix A- Product Change Information**

Product family / Commercial products:	SO8N & TSSOP8 assembled with 4-layer PPF at ST
	Shenzhen
Customer(s):	All
Type of change:	Packing
Reason for the change:	Protection against uncontrolled environment.
Description of the change:	The reels, tubes of the 4-layer PPF SO8N & TSSOP8 packages from ST Shenzhen (China) will be packed into a shielding bag. Additional sites and packages impacted by the same change will be communicated within WW40 via dedicated PCIs.
Forecast date of the change: (Notification to customer)	Week 35 / 2015 (reels) for products listed in the present PCI Week 43 / 2015 (tubes) for products listed in the present PCI
Forecast date of Qualification samples availability for customer(s):	Available
Estimated date of first shipment:	Week 38 / 2015 (reels) Week 46 / 2015 (tubes)

### **Appendix B- List of Concerned Products**

21001375P/S	M24C04-RMN6TP	M24SR04-YMN6T/2	M95080-WDW6TP
21001377P/S	M24C04-WDW6P	M24SR16-YDW6T/2	M95080-WDW6TP/S
21001378P/S	M24C04-WDW6TP	M24SR16-YMN6T/2	M95080-WMN6P
21001381P/P	M24C04-WDW6TP/S	M24SR64-YDW6T/2	M95080-WMN6TP
21001382P/P	M24C04-WMN6P	M24SR64-YMN6T/2	M95080-WMN6TP/S
28006687P/S	M24C04-WMN6TP	M34E02-FDW6TP	M95128-DFDW6TP
28006689P/S	M24C04-WMN6TP/S	M34F04-WMN6TP	M95128-DFMN6TP
28007829P/S	M24C08-FDW6TP	M35B32-WDW6TP	M95128-RDW6TP
28025329P/S	M24C08-FMN6TP	M35B32-WMN6TP	M95128-RMN6P
28041703P/S	M24C08-RDW6TP	M93C46-MN6TP/S	M95128-RMN6TP
M24128-BFDW6TP	M24C08-RMN6TP	M93C46-WDW6TP	M95128-WMN6P
M24128-BFMN6TP	M24C08-WDW6TP	M93C46-WMN6P	M95128-WMN6TP
M24128-BRDW6TP	M24C08-WDW6TP/S	M93C46-WMN6P/S	M95128-WMN6TP/P
M24128-BRMN6P	M24C08-WMN6HF	M93C46-WMN6TP	M95160-DFDW6TP
M24128-BRMN6TP	M24C08-WMN6P	M93C46-WMN6TP/S	M95160-DFMN6TP
M24128-BWDW6TP	M24C08-WMN6THF	M93C56-MN6TP/S	M95160-FDW6TP
M24128-BWMN6P	M24C08-WMN6TP	M93C56-RDW6TP	M95160-MN6TP/S
M24128-BWMN6TP	M24C08-WMN6TP/S	M93C56-RMN6P	M95160-RDW6TP
M24128-BWMN6TP/P	M24C16-FDW6TP	M93C56-RMN6TP	M95160-RMN6TP
M24128-DFDW6TP	M24C16-FMN6P	M93C56-WDW6TP	M95160-WDW6TP
M24128-DFMN6TP	M24C16-FMN6TP	M93C56-WMN6P	M95160-WDW6TP/S
M24256-BFDW6TP	M24C16-RDW6TP	M93C56-WMN6TP	M95160-WMN6P
M24256-BRDW6P	M24C16-RMN6P	M93C56-WMN6TP/S	M95160-WMN6TP
M24256-BRDW6TP	M24C16-RMN6TP	M93C66-MN6TP/S	M95160-WMN6TP/S
M24256-BRMN6P	M24C16-WDW6TP	M93C66-WDW6TP	M95256-DFDW6TP
M24256-BRMN6TP	M24C16-WDW6TP/S	M93C66-WDW6TPNTD	M95256-DFMN6TP
M24256-BWDW6TP	M24C16-WMN6P	M93C66-WMN6P	M95256-DRDW6TP
M24256-BWMN6P	M24C16-WMN6TP	M93C66-WMN6TP	M95256-DRMN6TP
M24256-BWMN6TP	M24C16-WMN6TP/S	M93C66-WMN6TP/S	M95256-RDW6TP
M24256-BWMN6TP/A	M24C32-DFDW6TP	M93C76-RDW6TP	M95256-RMN6TP
M24256-BWMN6TP/K	M24C32-DFMN6TP	M93C76-WMN6TP	M95256-WDW6P
M24256-DFDW6TP	M24C32-FDW6TP	M93C76-WMN6TP/S	M95256-WDW6TP
M24256-DFMN6TP	M24C32-FDW6TP/C	M93C86-MN6P	M95256-WMN6P
M24256-DRDW6TP	M24C32-FMN6TP	M93C86-MN6TP	M95256-WMN6TP
M24256-DRMN6TP	M24C32-RDW6TP	M93C86-RDW6TP	M95256-WMN6TP/AB
M24512-DFDW6TP	M24C32-RMN6P	M93C86-WDW6TP	M95320-DFMN6TP
M24512-DFMN6TP	M24C32-RMN6TP	M93C86-WMN6P	M95320-DRDW6TP
M24512-DRDW6TP	M24C32-WDW6TP	M93C86-WMN6TP	M95320-DRMN6TP
M24512-DRMN6TP	M24C32-WMN6HF	M93C86-WMN6TP/S	M95320-RDW6TP
M24512-HRDW6TP	M24C32-WMN6P	M93S46-WMN6P	M95320-RMN6TP
M24512-HRMN6TP	M24C32-WMN6THF	M93S46-WMN6TP	M95320-WDW6TP
M24512-RDW6P	M24C32-WMN6TP	M93S46-WMN6TP/S	M95320-WDW6TP/P
M24512-RDW6TP	M24C32-WMN6TP/P	M93S56-WMN6P	M95320-WMN6HF
M24512-RMN6P	M24C64-DFDW6TP	M93S56-WMN6TP	M95320-WMN6P
M24512-RMN6TP	M24C64-DFMN6TP	M93S56-WMN6TP/S	M95320-WMN6THF
	M24C64-FDW6TP		
M24512-WDW6TP		M93S66-WMN6P	M95320-WMN6TP
M24512-WMN6P	M24C64-FDW6TP/C	M93S66-WMN6TP	M95320-WMN6TP/P
M24512-WMN6TP	M24C64-FMN6TP	M93S66-WMN6TP/S	M95512-DFDW6TP
M24C01-RDW6P	M24C64H-FMN6TP	M95010-RDW6TP	M95512-DFMN6TP
M24C01-RDW6TP	M24C64-RDW6TP	M95010-RMN6TP	M95512-DRDW6TP
M24C01-RMN6P	M24C64-RMN6P	M95010-WDW6TP	M95512-DRMN6TP
M24C01-RMN6TP	M24C64-RMN6TP	M95010-WMN6P	M95512-RDW6P
M24C01-WDW6TP	M24C64-WDW6TP	M95010-WMN6TP	M95512-RDW6TP
M24C01-WMN6P	M24C64-WMN6P	M95010-WMN6TP/S	M95512-RMN6P
M24C01-WMN6TP	M24C64-WMN6TP	M95020-RDW6TP	M95512-RMN6TP
M24C01-WMN6TP/S	M24C64-WMN6TP/P	M95020-RMN6TP	M95512-WDW6P
M24C02-FDW6TP	M24LR04E-RDW6T/2	M95020-WDW6TP	M95512-WDW6TP
M24C02-FMN6P	M24LR04E-RMN6T/2	M95020-WDW6TP/S	M95512-WMN6P
M24C02-FMN6TP	M24LR16E-RDW6T/2	M95020-WMN6P	M95512-WMN6TP
M24C02-RDW6P	M24LR16E-RMN6T/2	M95020-WMN6TP	M95640-DFDW6TP
M24C02-RDW6TP	M24LR64E-RDW6T/2	M95020-WMN6TP/S	M95640-DFMN6TP
M24C02-RMN6P	M24LR64E-RMN6T/2	M95040-DFDW6TP	M95640-RDW6TP
M24C02-RMN6TP	M24LR64-RDW6T/2	M95040-DFMN6TP	M95640-RMN6P
M24C02-WDW6TP	M24LR64-RMN6T/2	M95040-RDW6TP	M95640-RMN6TP
M24C02-WDW6TP/S	M24M01-DFDW6TP	M95040-RMN6TP	M95640-WDW6TP
M24C02-WMN6HF	M24M01-DFMN6TP	M95040-WDW6TP	M95640-WDW6TP/P
M24C02-WMN6P	M24M01-HRMN6P	M95040-WDW6TP/S	M95640-WMN6P
M24C02-WMN6THF	M24M01-HRMN6TP	M95040-WMN6P	M95640-WMN6TP
M24C02-WMN6TP	M24M01-RDW6TP	M95040-WMN6TP	M95640-WMN6TP/P
M24C02-WMN6TP/S	M24M01-RMN6P	M95040-WMN6TP/S	M95M01-DFDW6TP
M24C04-FDW6TP	M24M01-RMN6TP	M95080-DFDW6TP	M95M01-DFMN6TP
M24C04-FMN6P	M24M02-DRMN6TP	M95080-DFMN6TP	M95M01-RDW6TP
M24C04-FMN6TP	M24SR02-YDW6T/2	M95080-MN6TP/S	M95M01-RMN6P
M24C04-RDW6TP	M24SR02-YMN6T/2	M95080-RDW6TP	M95M01-RMN6TP
	= -		
M24C04-RMN6P	M24SR04-YDW6T/2	M95080-RMN6TP	
M24C04-RMN6P	M24SR04-YDW6T/2	M95080-RMN6TP	M95M02-DRMN6TP

#### SHIELDING BAG for SHENZHEN 4-layer PPF SO8 & TSSOP8 REELS AND TUBES

Document Revis	sion Hist	ory
Date	Rev.	Description of the Revision
August 24, 2015	1.00	First draft creation

Source Documents & Reference Documents	3		
Source document Title	R	lev.:	Date:



# **QRMMY1513**

Shielding bag for Shenzhen 4-layer PPF SO8 and TSSOP8 reels



August 2015

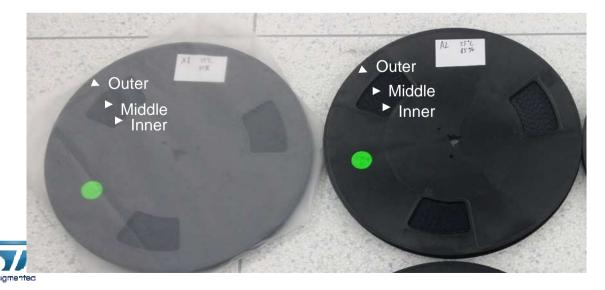


### Qualification Plan

- Plan:
  - Simulate exposure to uncontrolled environment before product usage
  - T&H 85°C, 85% RH

Package	Aging conditions: T	<sup>-</sup> &H 85°C, 85% RH
1 ackage	With bag	Without bag
SO8 4-layer PPF	1 reel	1 reel
TSSOP 4-layer PPF	1 reel	1 reel

Sample preparation and observation of leads



### Aging results after T&H 240 hrs

	Position	Ag	ging conditions: T&F	H 85°C, 85% RH, 24	40 hrs
SO8	in reel		ith bag discoloration		out bag iscoloration
	Inner				
(Original finish units)	Middle				
	Outer				



### Aging results after T&H 480 hrs

	Position	Aging conditions: T&	H 85°C, 85% RH, 480 hrs
SO8	in reel	With bag Slight discoloration	Without bag Obvious discoloration
	Inner		
(Original finish units)	Middle		
	Outer		



### Aging results after T&H 240 hrs

	Position	Aging conditions: T&F	H 85°C, 85% RH, 240 hrs
TSSOP	in reel	With bag Slight discoloration	Without bag Obvious discoloration
	Inner		
(Original finish units)	Middle		
	Outer		



### Aging results after T&H 480 hrs

T000D	Position	Agi	ng conditions: T&F	H 85°C, 85% RH, 48	80 hrs
TSSOP	in reel		h bag scoloration		out bag iscoloration
	Inner	2 0 1 2 1 2 1 2 1 2 2 1 2 2 2 2 2 2 2 2			
(Original finish units)	Middle	20 00 30 30 30 30 30 30 30 30 30 30 30 30			
	Outer				



		Aging conditions	s: 85°C, 85% RH
Package	Duration	With bag	Without bag
SO8 4-layer PPF	240 hrs	Slight discoloration	Obvious discoloration
506 4-layer PPF	480 hrs	Slight discoloration	Obvious discoloration
TSSOD 4 lover DDE	240 hrs	Slight discoloration	Obvious discoloration
TSSOP 4-layer PPF	480 hrs	Slight discoloration	Obvious discoloration



### Appendix: Transparency checking

#### Self-sealant line



Reel in the bag



Transparency: fonts on label can be scanned



## Appendix: Drawing

#### 印刷内容放大图



		深圳市高	派克包装技术有限公司
单位	MM	产品名称	屏蔽自封印刷袋
材质	APET/CPP	m to 14	内尺寸: 360*37000*0.075
尺寸公差	+ 3/-0	产品规格	外尺寸: 380*40098*0.075
审核	朱周玉	客户料号	1
日期	2015, 03, 04	图纸编号	KPT-00162





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#### **Public Products List**

PCI Title: SHIELDING BAG for SHENZHEN 4-layer Pre plated frame SO8 & TSSOP8 REELS AND TUBES

PCI Reference: CRP/15/9379
PCI Created on: 28-Aug-2015

Subject: Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

VMN6TP  DW6TP  VMN6TP  VMN6TP  MN6TP  WMN6TP  WMN6TP  FMN6TP  VMN6TP  VMN6TP	M95M01-DFDW6TP M24128-BWDW6TP M93C46-WMN6TP M24C08-WMN6TP M93C66-WMN6TP M24C32-WMN6TP M93C56-RDW6TP M93C56-WDW6TP M94C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C32-DFMN6TP M24C32-RMN6TP M24C01-WDW6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
VDW6TP VMN6TP MN6TP FMN6TP MN6TP MN6TP MN6TP MN6TP MN6TP MN6TP FDW6TP FMN6TP VMN6TP VMN6TP VMN6TP VMN6TP VDW6TP VDW6TP FMN6TP VDW6TP FMN6TP VDW6TP FMN6TP VDW6TP FMN6TP	M93C46-WMN6TP M24C08-WMN6TP M93C66-WMN6TP M24C32-WMN6TP M93C56-RDW6TP M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C32-RMN6TP M24C32-RMN6TP M24C32-RMN6TP M24C33-RMN6TP M95040-WMN6TP M95040-WMN6TP M95040-WMN6TP
WMN6TP MN6TP FMN6TP MN6TP MN6TP MN6TP MN6TP MN6TP MN6TP FMN6TP FDW6TP FMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WDW6TP FMN6TP WDW6TP FMN6TP	M24C08-WMN6TP M93C66-WMN6TP M24C32-WMN6TP M93C56-RDW6TP M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C32-DFMN6TP M24C32-RMN6TP M24C32-RMN6TP M24C32-RMN6TP M24C32-RMN6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
MN6TP FMN6TP MN6TP MN6TP MN6TP MN6TP MN6TP MN6TP FMN6TP FMN6TP FMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WDW6TP FMN6TP FMN6TP	M93C66-WMN6TP M24C32-WMN6TP M93C56-RDW6TP M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C32-RMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
FMN6TP MN6TP MN6TP //DW6TP MN6TP RMN6TP FDW6TP FMN6TP //MN6TP	M24C32-WMN6TP M93C56-RDW6TP M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C32-DFMN6TP M24C32-RMN6TP M24C32-RMN6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
MN6TP MN6TP //DW6TP MN6TP RMN6TP FDW6TP FMN6TP //MN6TP //MN6TP //MN6TP //DW6TP //DW6TP //DW6TP //DW6TP //DW6TP //DW6TP	M93C56-RDW6TP M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
MN6TP /DW6TP MN6TP RMN6TP FMN6TP FMN6TP /MN6TP /MN6TP /MN6TP /MN6TP /MN6TP /DW6TP /DW6TP /DW6TP /DW6TP FMN6TP	M93C56-WDW6TP M24C64-RDW6TP M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95040-WMN6TP M95160-WMN6TP
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MN6TP RMN6TP FDW6TP FMN6TP WMN6TP WMN6TP WMN6TP WMN6TP WDW6TP WDW6TP FMN6TP	M95512-RDW6TP M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
RMN6TP FDW6TP FMN6TP VMN6TP VMN6TP VMN6TP VDW6TP VDW6TP FMN6TP	M95320-WMN6TP M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
FDW6TP FMN6TP WMN6TP WMN6TP WMN6TP WDW6TP WDW6TP FMN6TP	M24128-BRMN6TP M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
FMN6TP VMN6TP VMN6TP VMN6TP VDW6TP VDW6TP FMN6TP	M24C16-FMN6TP M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
VMN6TP VMN6TP VDW6TP VDW6TP VDW6TP FMN6TP	M24C32-DFMN6TP M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
MN6TP VMN6TP VDW6TP VDW6TP FMN6TP	M24C01-WDW6TP M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
VMN6TP VDW6TP VDW6TP FMN6TP	M24C32-RMN6TP M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
VDW6TP VDW6TP FMN6TP	M95040-WMN6TP M95160-WMN6TP M93S56-WMN6TP
VDW6TP FMN6TP	M95160-WMN6TP M93S56-WMN6TP
FMN6TP	M93S56-WMN6TP
DW6TP	
211711	M24C08-WDW6TP
DW6TP	M93C56-WMN6TP
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DW6TP	M24C16-RDW6TP
DW6TP	M24M01-RMN6TP
/DW6TP	M95128-WMN6TP
DW6TP	M24LR64E-RMN6T/2
VDW6TP	M95010-WMN6TP
WMN6TP	M95160-RDW6TP
MN6TP	M24M02-DRMN6TP
FDW6TP	M95640-RMN6TP
/MN6TP	M95256-WDW6TP
VDW6TP	M24C64-RMN6TP
DW6TP	M95512-RMN6TP
FMN6TP	M95160-WDW6TP
VDW6TP	M95320-RMN6TP
	M24128-DFDW6TP
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R D	RDW6TP WDW6TP BWMN6TP RMN6TP DFDW6TP WMN6TP WDW6TP RDW6TP RDW6TP WDW6TP WDW6TP



# Public Products List

M34F04-WMN6TP	M24C64-FMN6TP	M95320-WDW6TP
M24SR16-YDW6T/2	M95640-RDW6TP	M24M01-DFMN6TP
M95020-WMN6TP	M24SR04-YMN6T/2	M24C02-FMN6TP
M95080-RMN6TP	M95040-RMN6TP	M95010-RDW6TP
M24C04-FDW6TP	M95512-WDW6TP	M95040-WDW6TP
M24M01-RDW6TP	M24C64-DFMN6TP	M95320-DFMN6TP
M24C08-FMN6TP	M95020-RMN6TP	M24LR16E-RDW6T/2
M24SR02-YMN6T/2	M24SR02-YDW6T/2	M24SR64-YDW6T/2
M24SR16-YMN6T/2	M95040-DFMN6TP	M95128-DFDW6TP
M93C86-RDW6TP	M24C32-FMN6TP	M24C64-DFDW6TP
M24C04-FMN6TP	M24512-DFDW6TP	M24SR64-YMN6T/2
M24LR64-RMN6T/2	M24512-DFMN6TP	M95080-DFDW6TP
M95160-DFDW6TP	M24256-DFMN6TP	M95256-DFDW6TP
M95010-RMN6TP	M24C08-FDW6TP	M95512-DFMN6TP
M95320-RDW6TP	M95020-WDW6TP	M95M01-DFMN6TP
M24128-DFMN6TP	M95640-DFDW6TP	M95512-DFDW6TP
M95040-DFDW6TP	M24C16-FDW6TP	M24M01-DFDW6TP
M95M01-RDW6TP		

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