



Product Change Notification: MFOL-04DBHB057

Date:

08-Nov-2024

Product Category:

Memory

Notification Subject:

CCB 6183.003 Initial Notice: Qualification of MTAI as a new final test site for AT24MAC602-STUM-T, AT24CS04-STUM-T, AT24MAC402-STUM-T, AT24CS16-STUM-T, AT24CS32-STUM-T, AT24CS01-STUM-T, AT24CS08-STUM-T, and AT24CS02-STUM-T catalog part numbers (CPN) available in 5L TSOT (1.6x2.9x1.1mm) package.

Affected CPNs:

[MFOL-04DBHB057_Affected_CPN_11082024.pdf](#)

[MFOL-04DBHB057_Affected_CPN_11082024.csv](#)

PCN Status: Initial Notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the files found in the Affected CPNs section.

Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change: Qualification of MTAI as a new final test site for AT24MAC602-STUM-T, AT24CS04-STUM-T, AT24MAC402-STUM-T, AT24CS16-STUM-T, AT24CS32-STUM-T, AT24CS01-STUM-T, AT24CS08-STUM-T, and AT24CS02-STUM-T catalog part numbers (CPN) available in 5L TSOT (1.6x2.9x1.1mm) package.

Pre and Post Summary Changes:

	Pre Change	Post Change
Final Test Site	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Thailand (HQ) (MTAI)

Base Quantity Multiple (BQM)	No change. See Pre and Post change for comparison.
Pin Orientation	No change. See Pre and Post change for comparison.
Pin Carrier Tape	With minor dimensional change. See Pre and Post change for comparison.
Cover Tape	With minor dimensional change. See Pre and Post change for comparison.
Reel	With dimensional change. See Pre and Post change for comparison.
Packing Method	See Pre and Post change for comparison.

Impacts to Datasheet: None

Change Impact: None

Reason for Change: To improve manufacturability by qualifying MTAI as a new final test site.

Change Implementation Status: In Progress

Estimated Qualification Completion Date: November 2024

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Timetable Summary:

	November 2024				
Work Week	44	45	46	47	48

Initial PCN Issue Date		X			
Qual Report Availability			X		
Final PCN Issue Date			X		

Method to Identify Change: Traceability Code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual_Plan.

Revision History: November 07, 2024: Issued Initial notification.

Note: The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable product.

Attachments:

PCN_MFOL-04DBHB057_Qual Plan.pdf

PCN_MFOL-04DBHB057_Pre and Post change_summary.pdf

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our **PCN home page** select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the **PCN FAQ** section.

If you wish to change your PCN profile, including opt out, please go to the **PCN home page** select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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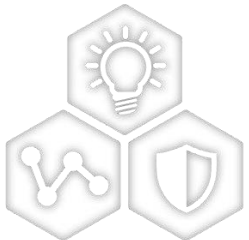
Affected Catalog Part Numbers (CPN)

- AT24MAC602-STUM-T
- AT24CS04-STUM-T
- AT24MAC402-STUM-T
- AT24CS16-STUM-T
- AT24CS32-STUM-T
- AT24CS01-STUM-T
- AT24CS08-STUM-T
- AT24CS02-STUM-T

CCB 6183.003
Pre and Post Change Summary
PCN #: MFOL-04DBHB057

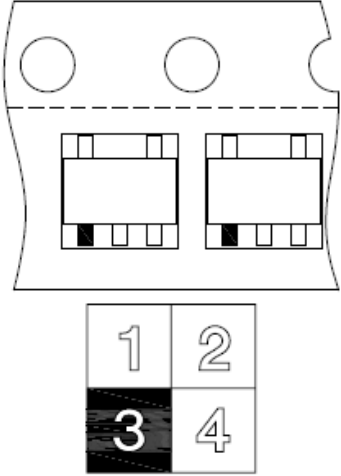
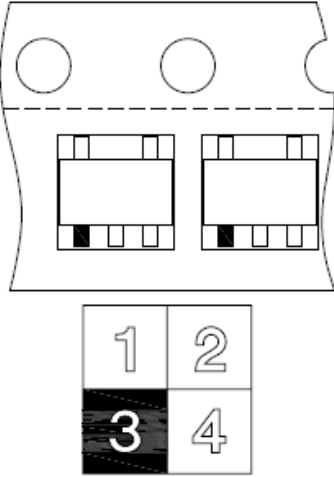


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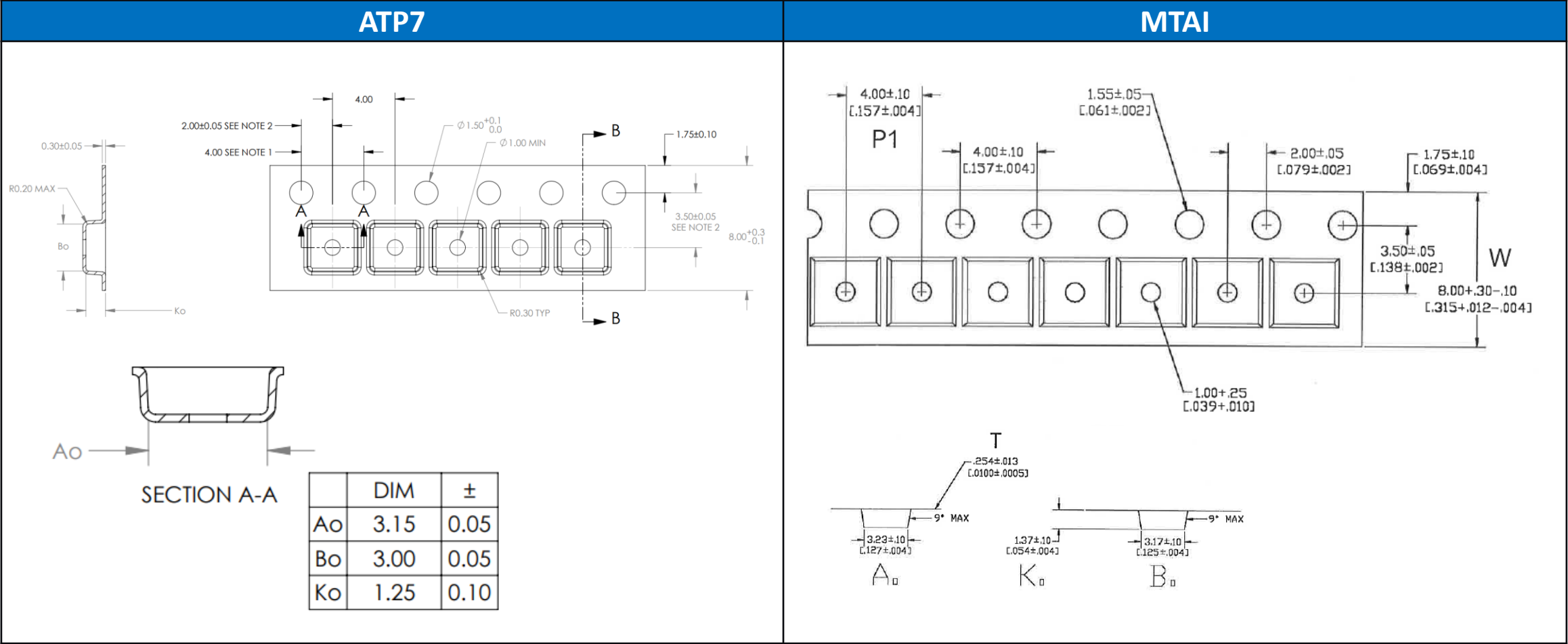
Pre and Post Change Summary - Pin1 Orientation

ATP7	MTAI
 <p>Quadrant 3</p>	 <p>Quadrant 3</p>

Pre and Post Change Summary - Base Quantity Multiple (BQM)

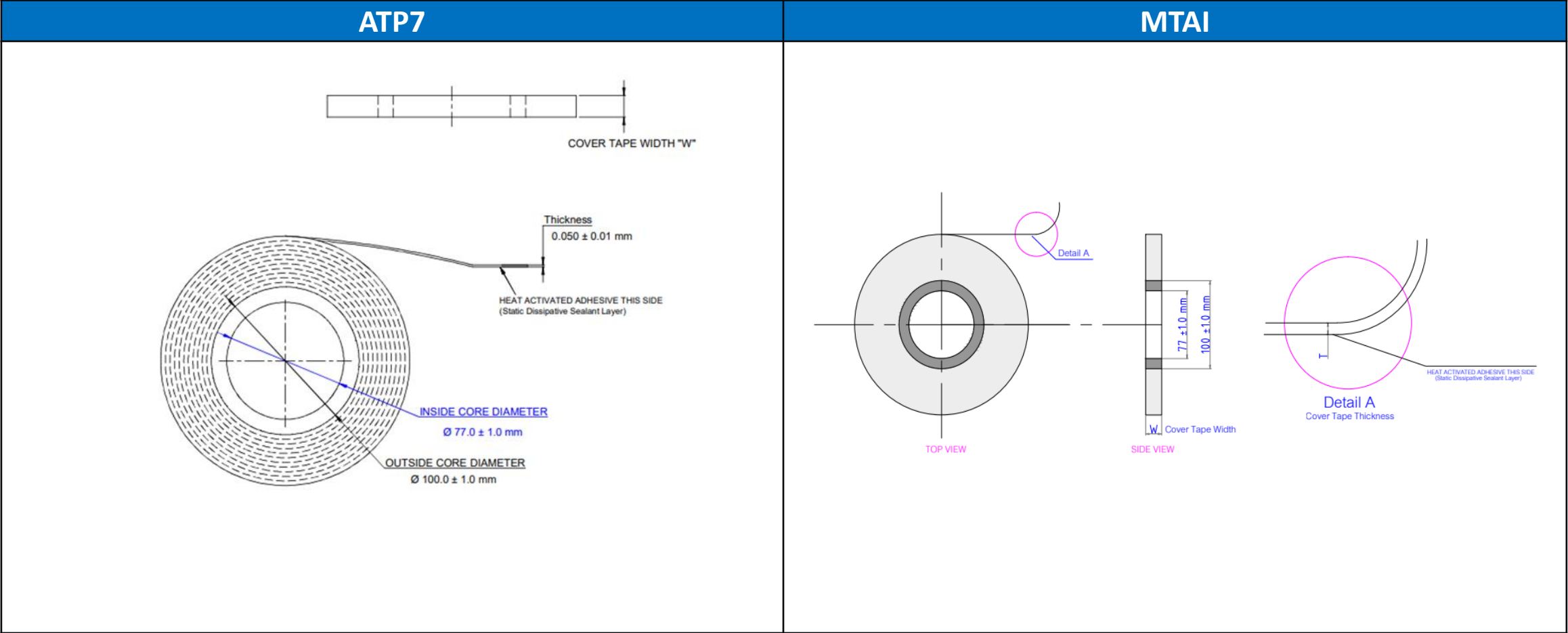
ATP7	MTAI
Units per reel: 5000 1 reel per bag	Units per reel: 5000 1 reel per bag

Pre and Post Change Summary – Carrier Tape



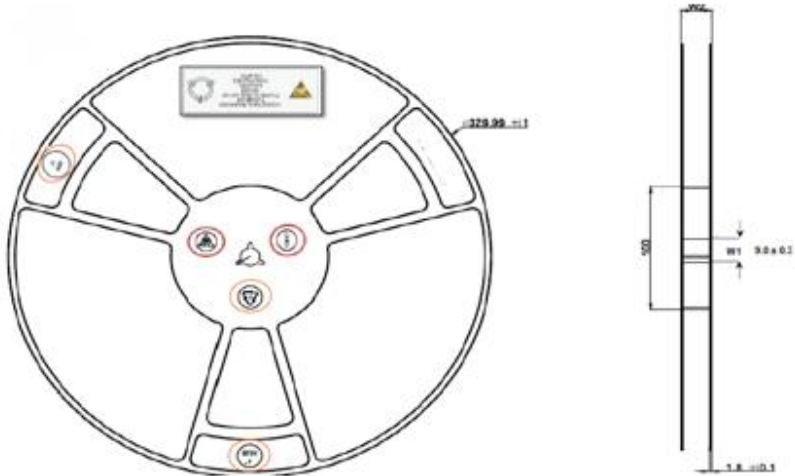
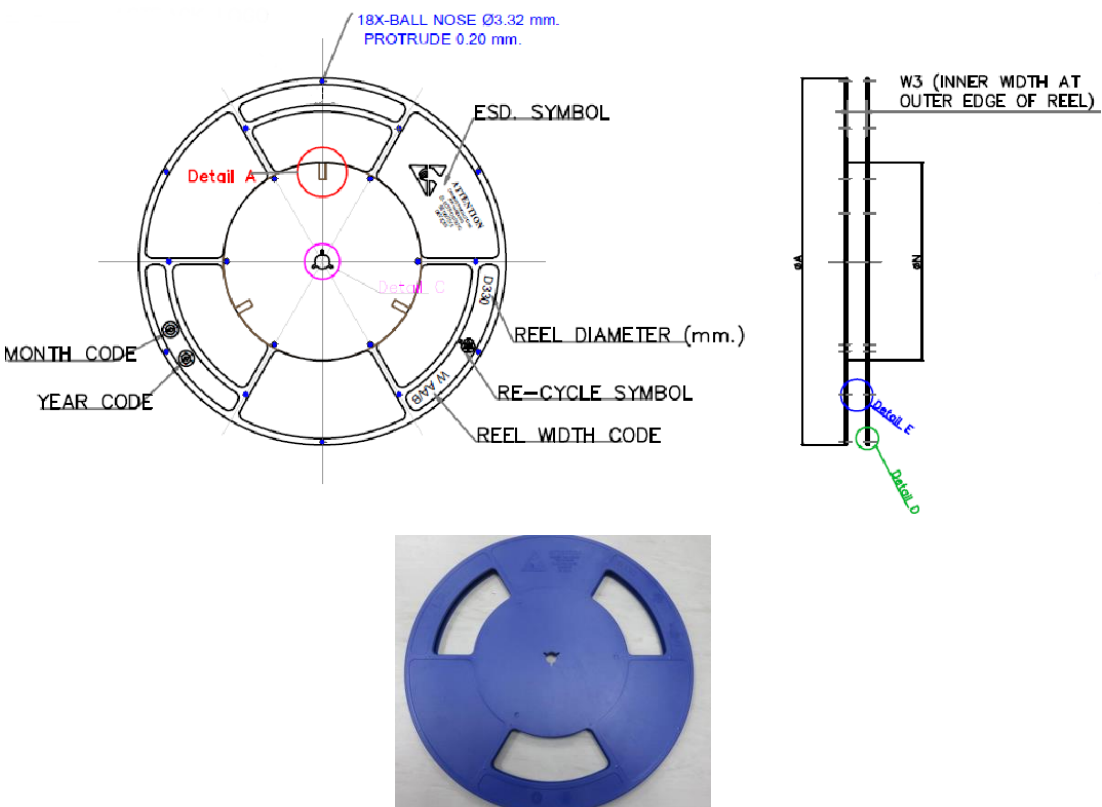

Plant	W (mm)	P (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
ATP7	8.00 +0.30/-0.10	4.00 ±0.10	3.15 ±0.05	3.00 ±0.05	1.25 ±0.10	0.30 ± 0.05
MTAI	8.00 +0.30/-0.10	4.00 ±0.10	3.23 ±0.10	3.17 ±0.10	1.37 ±0.10	0.254 ±0.013

Pre and Post Change Summary – Cover Tape



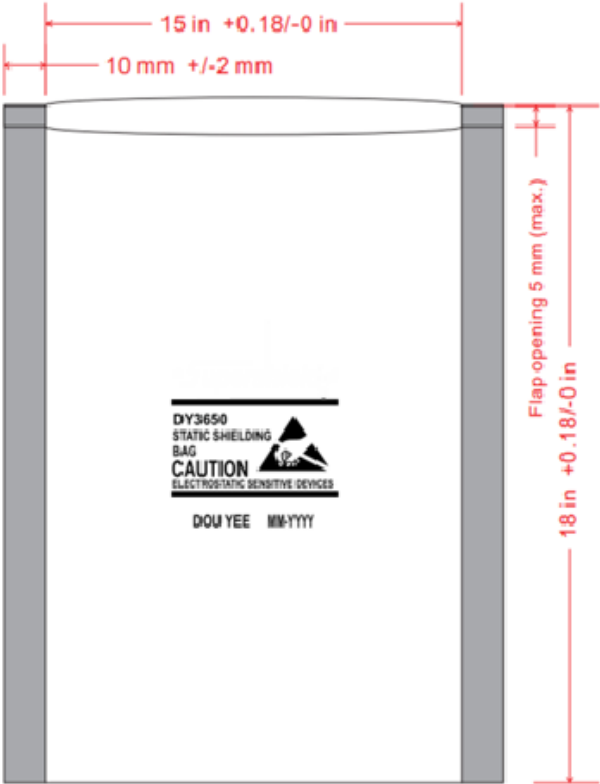
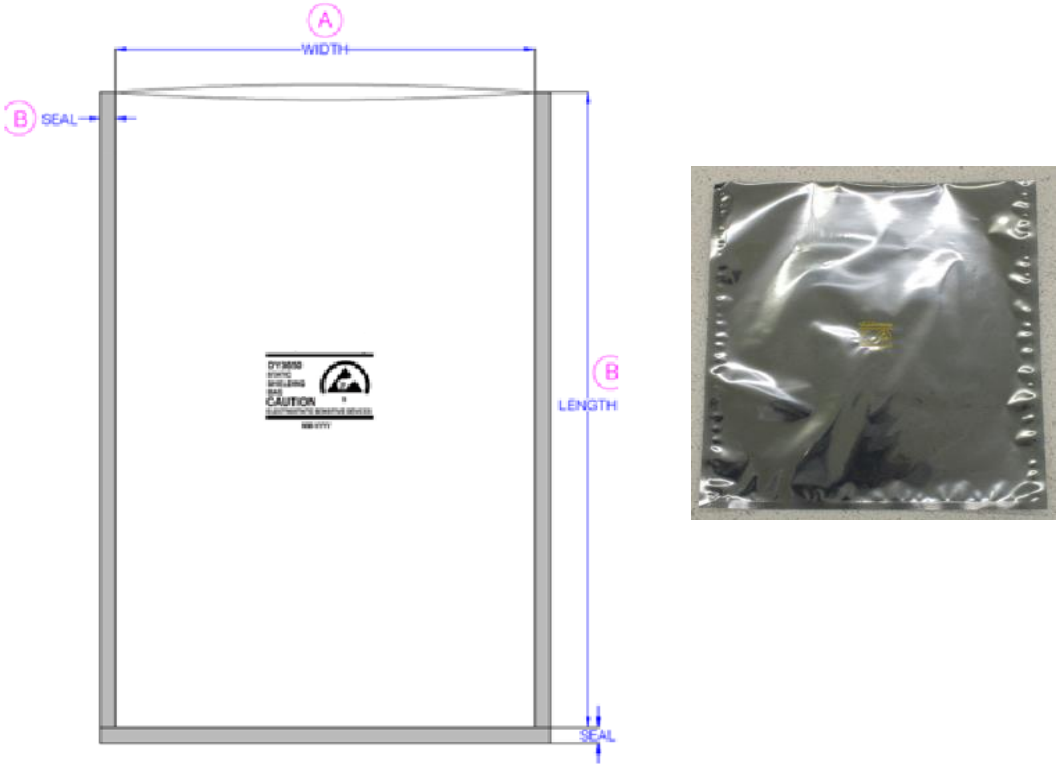
Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
ATP7	5.4 +/- 0.10	0.050 +/- 0.01	Gray	Heat Seal
MTAI	5.4 ±0.1	0.062 ±0.013	Clear	Heat sealing

Pre and Post Change Summary - Reel

ATP7	MTAI
	 

Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
ATP7	329.99±1	100	11.4±0.0.8	White
MTAI	330 ±2.0	178 +0/- 2.0	14.40	Dark Blue

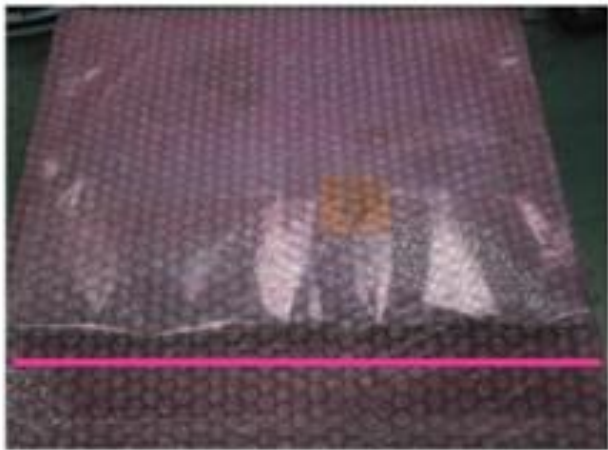
Pre and Post Change Summary – Shielding Bag

ATP7	MTAI
	

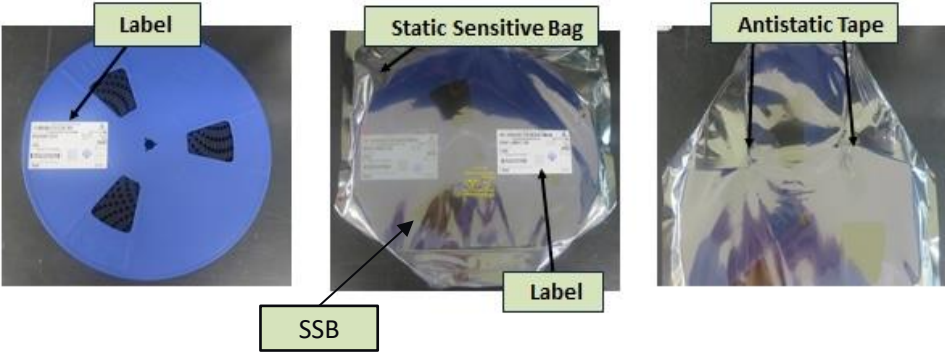
Plant	Bag type	Length (mm)	Width (mm)	Thickness (mm)
ATP7	Static Shielding Bag	482.6 +4.5/-0	381 +4.5/-0	3.0 +/- 0.3
MTAI	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762

Pre and Post Change Summary – Packing Method

ATP7



MTAI



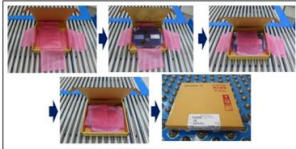
MSL-1 (No inner box)

Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Number of reel per carton
M01-011 (TT)	36.5x38x39.5	18
M01-012 (B1)	35.5x35.5x2.8	1
M01-013 (B2)	35.5x35.5x4	3
M01-014 (B3)	35.5x35.5x6	4
M01-015 (B8)	35.5x35.5x16.5	10



Example: Packing for tape and reel in carton box B2/ B3.(Sample)



Packing for tape and reel in carton box B8.(Sample)



Packing for tape and reel in carton box TT



Pre and Post Change Summary – Packing Method

ATP7

1 reel per inner box

MTAI

MSL-1 (No inner box)

Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Number of reel per carton
M01-011 (TT)	36.5x38x39.5	18
M01-012 (B1)	35.5x35.5x2.8	1
M01-013 (B2)	35.5x35.5x4	3
M01-014 (B3)	35.5x35.5x6	4
M01-015 (B8)	35.5x35.5x16.5	10

Example: Packing for tape and reel in carton box B2/ B3.(Sample) Packing for tape and reel in carton box B8.(Sample) Packing for tape and reel in carton box TT



**QUALIFICATION PLAN SUMMARY
RELIABILITY LABORATORY**

PCN #: MFOL-04DBHB057

**Date:
October 23, 2024**

**Qualification of MTAI as a new final test site for
AT24MAC602-STUM-T, AT24CS04-STUM-T, AT24MAC402-
STUM-T, AT24CS16-STUM-T, AT24CS32-STUM-T,
AT24CS01-STUM-T, AT24CS08-STUM-T, and AT24CS02-
STUM-T catalog part numbers (CPN) available in 5L TSOT
(1.6x2.9x1.1mm) package.**



Purpose: Qualification of MTAI as a new final test site for AT24MAC602-STUM-T, AT24CS04-STUM-T, AT24MAC402-STUM-T, AT24CS16-STUM-T, AT24CS32-STUM-T, AT24CS01-STUM-T, AT24CS08-STUM-T, and AT24CS02-STUM-T catalog part numbers (CPN) available in 5L TSOT (1.6x2.9x1.1mm) package.

CCB No.: 6183.003

Test / Evaluation	Test Condition / Parameters
Test checkout	<ul style="list-style-type: none">Build and test one wafer (> 3000 pcs.) for each of the 2 checkout products in MTAI
Test Yields	<ul style="list-style-type: none">Compare test yields from checkout in MTAI with ATP7 yield trends, MTAI yield should be within 3Sigma of the mean, the following chart shows the summary of the data for the 2 products to be used for checkout and the target min.