



Product Change Notification: MFOL-250NMP090

Date:

03-Sep-2025

Product Category:

Memory

Notification Subject:

CCB 7196 Final Notice: Qualification of MTAI as a new final test site for AT27C1024-45JU, AT27C1024-45JU-T, AT27C1024-70JU, AT27C1024-70JU-T, AT27C4096-90JU, AT27C4096-90JU-T, AT27C4096-55JU, and AT27C4096-55JU-T catalog part numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm) package.

Affected CPNs:

[MFOL-250NMP090_Affected_CPN_09032025.pdf](#)

[MFOL-250NMP090_Affected_CPN_09032025.csv](#)

PCN Status: Final 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 AT27C1024-45JU, AT27C1024-45JU-T, AT27C1024-70JU, AT27C1024-70JU-T, AT27C4096-90JU, AT27C4096-90JU-T, AT27C4096-55JU, and AT27C4096-55JU-T catalog part numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm) package.

Pre and Post Summary Changes:

	Pre Change	
Final Test Site	Microchip Technology Operations (Philippines) Corporation (MPHL)	Microchip Technology Thailand (MTAI)

Tube	Base Quantity Multiple (BQM)	No change. See pre and post change summary for comparison.
	Pin 1 Orientation	
	Dimension	
	Color	
	Packing Method	See pre and post change summary for comparison.
Tape and Reel	Base Quantity Multiple (BQM)	No change. See pre and post change summary for comparison.
	Pin 1 Orientation	
	Carrier Tape	
	Cover Tape	With minor dimensional change. See pre and post change for comparison.
	Reel	
	Reel Color	See pre and post change summary for comparison.
	Packing Method	

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 First Ship Date: 30 September 2025 (date code: 2540)

Note Below EFSD: Note: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Timetable Summary:

	November 2024					>	September 2025				
Work Week	44	45	46	47	48		36	37	38	39	40
Initial PCN Issue Date			x								

Qual Report Availability							X				
Final PCN Issue Date							X				
Estimated Implementation Date											X

Method to Identify Change: Traceability Code

Qualification Report: Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History: November 12, 2024: Issued initial notification.
September 03, 2025: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on September 30, 2025.

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-25ONMP090_Pre and Post Change Summary.pdf
PCN_MFOL-25ONMP090_Qualification Report.pdf

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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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)

AT27C1024-45JU

AT27C1024-45JU-T

AT27C1024-70JU

AT27C1024-70JU-T

AT27C4096-90JU

AT27C4096-90JU-T

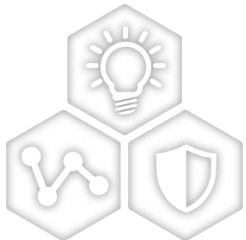
AT27C4096-55JU

AT27C4096-55JU-T

CCB 7196
Pre and Post Change Summary
PCN #: MFOL-25ONMP090



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



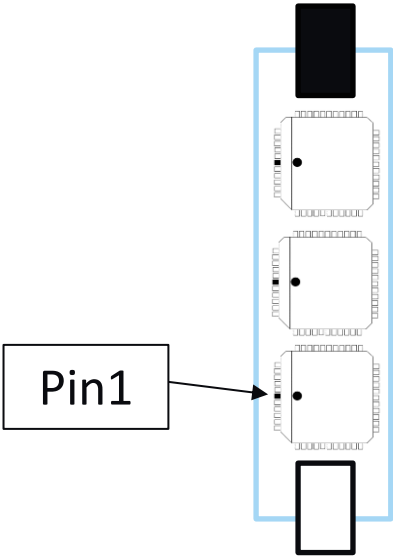
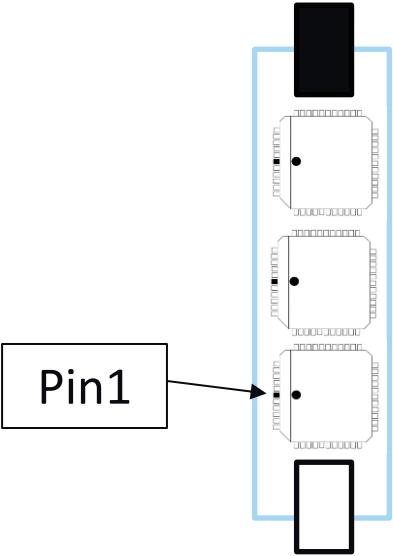
SMART | CONNECTED | SECURE

Pre and Post Change Summary - Tube

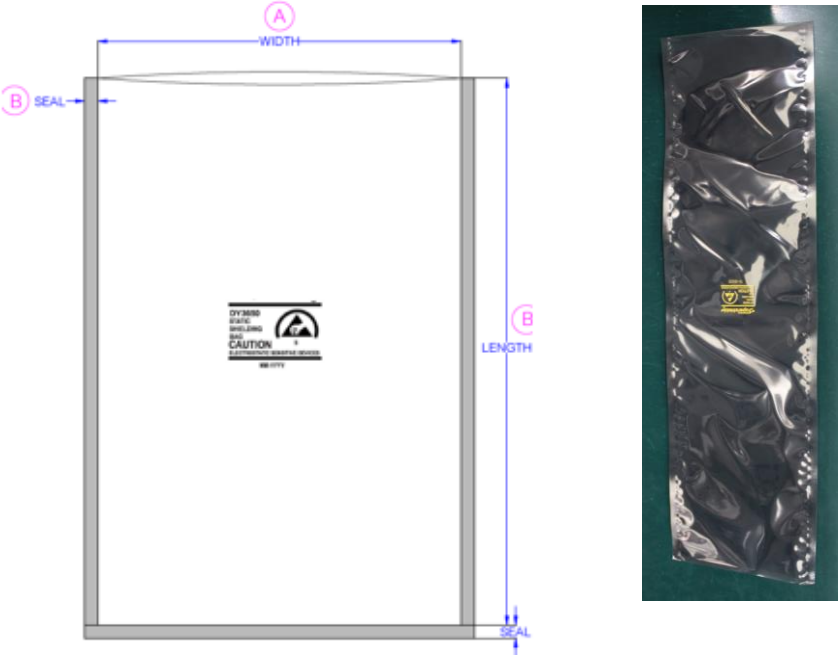
MPHL	MTAI
NOTE: 1. THIS PART TO BE MANUFACTURED PER THE LATEST REVISION OF ANAM/AMK OR SPECIFICATION NO. 001-0431-2284. 2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHS. 3. MARK 'LEAD COUNT & ANTISTATIC' WITH .110 HIGH X .100 WIDE RED GOTHIC LETTERS IN AREA SHOWN. 4. TUBE TO BE COATED (INSIDE AND OUT) WITH ANTI-STATIC AGENTS (MS-15094) AND THE SURFACE RESISTIVITY $\geq 1 \times 10^5$ TO $< 1 \times 10^{12}$ OHMS/Sq SHALL BE BETWEEN SURFACE RESISTANCE $\geq 1 \times 10^4$ TO $< 1 \times 10^{11}$ OHMS. 5. FINISH: TO BE TREATED WITH ANTISTATIC COATING 1.5 ± 0.5% OF STATICIED CONCENTRATE PER METHYL ALCOHOL. 6. MATERIAL: CLEAR/TRANSPARENT RIGID PVC.	NOTE: 1. THIS PART TO BE MANUFACTURED PER THE LATEST REVISION OF ANAM/AMK OR SPECIFICATION NO. 001-0431-2284. 2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHS. 3. MARK 'LEAD COUNT & ANTISTATIC' WITH .110 HIGH X .100 WIDE RED GOTHIC LETTERS IN AREA SHOWN. 4. TUBE TO BE COATED (INSIDE AND OUT) WITH ANTI-STATIC AGENTS (MS-15094) AND THE SURFACE RESISTIVITY $\geq 1 \times 10^5$ TO $< 1 \times 10^{12}$ OHMS/Sq SHALL BE BETWEEN SURFACE RESISTANCE $\geq 1 \times 10^4$ TO $< 1 \times 10^{11}$ OHMS. 5. FINISH: TO BE TREATED WITH ANTISTATIC COATING 1.5 ± 0.5% OF STATICIED CONCENTRATE PER METHYL ALCOHOL. 6. MATERIAL: CLEAR/TRANSPARENT RIGID PVC.

Location	Tube Length (inch)	Dimension	Unit per Tube	Tube per Bag	Tube Color
MPHL	20.00 +/- 0.050	See on drawing	27	20	Transparent Clear
MTAI	20.00 +/- 0.050	See on drawing	27	20	Transparent Clear

Pre and Post Change Summary – Tube Plug/Pin Color

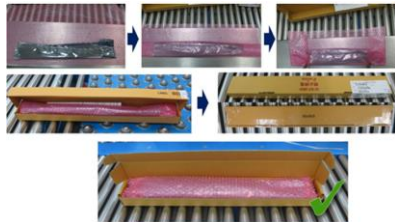
MPHL			MTAI		
					
Media	Pin1 Side Color	Opposite Side Color	Media	Pin1 Side Color	Opposite Side Color
Pin	White	Black	Plug	White	Black

Pre and Post Change Summary – Tube Bag

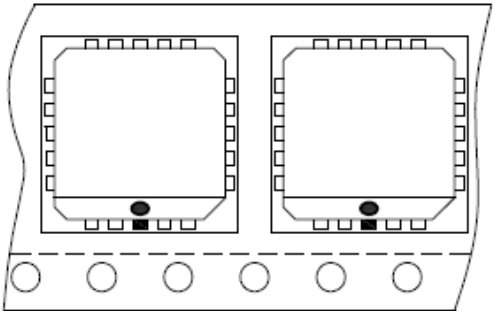
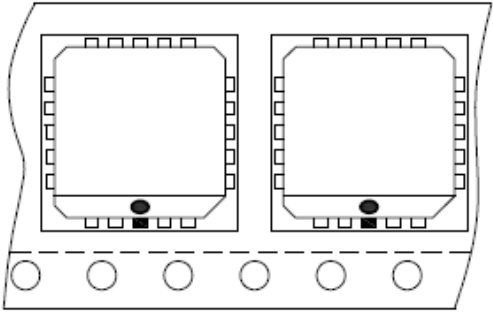
MPHL	MTAI
 The diagram shows a rectangular bag with dimensions: width (W) between two points A, and length (L). A small label with a radiation warning symbol is centered. The photo shows a gray, crinkled static shielding bag with a similar label.	 The diagram shows a rectangular bag with dimensions: width (A) and length (B). It features a top seal (B SEAL) and a bottom seal (SEAL). A label with a radiation warning symbol is centered. The photo shows a gray, crinkled static shielding bag with a similar label.

Plant	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Static Shielding Bag (Gray)	762 +/- 5	228 +/- 5	0.08 +/-0.01
MTAI	Static Shielding Bag	650+5/-0	160 +5/-0	0.0762

Pre and Post Change Summary – Tube Packing Method

Existing site	MTAI																					
ESD label use for seal  Open Side of Bag Intermediate Barcode Label (No inner box)	 MSL-1 (No inner box) Carton for product in tubes media (MSL-1) <table><tr><th>Carton</th><th>Dimension W x L x H (cm)</th><th>Number of Bag/carton</th></tr><tr><td>M01-025 (C1)</td><td>15x64x5.5</td><td>1</td></tr><tr><td>M01-026 (C2)</td><td>15x64x10</td><td>2</td></tr><tr><td>M01-027 (C3)</td><td>15x64x14</td><td>3</td></tr><tr><td>M01-028 (C4)</td><td>28x63x11</td><td>4</td></tr><tr><td>M01-029 (C6)</td><td>28x63x15.5</td><td>6</td></tr><tr><td>M01-030 (C8)</td><td>28x63x20</td><td>8</td></tr></table> Example: 	Carton	Dimension W x L x H (cm)	Number of Bag/carton	M01-025 (C1)	15x64x5.5	1	M01-026 (C2)	15x64x10	2	M01-027 (C3)	15x64x14	3	M01-028 (C4)	28x63x11	4	M01-029 (C6)	28x63x15.5	6	M01-030 (C8)	28x63x20	8
Carton	Dimension W x L x H (cm)	Number of Bag/carton																				
M01-025 (C1)	15x64x5.5	1																				
M01-026 (C2)	15x64x10	2																				
M01-027 (C3)	15x64x14	3																				
M01-028 (C4)	28x63x11	4																				
M01-029 (C6)	28x63x15.5	6																				
M01-030 (C8)	28x63x20	8																				

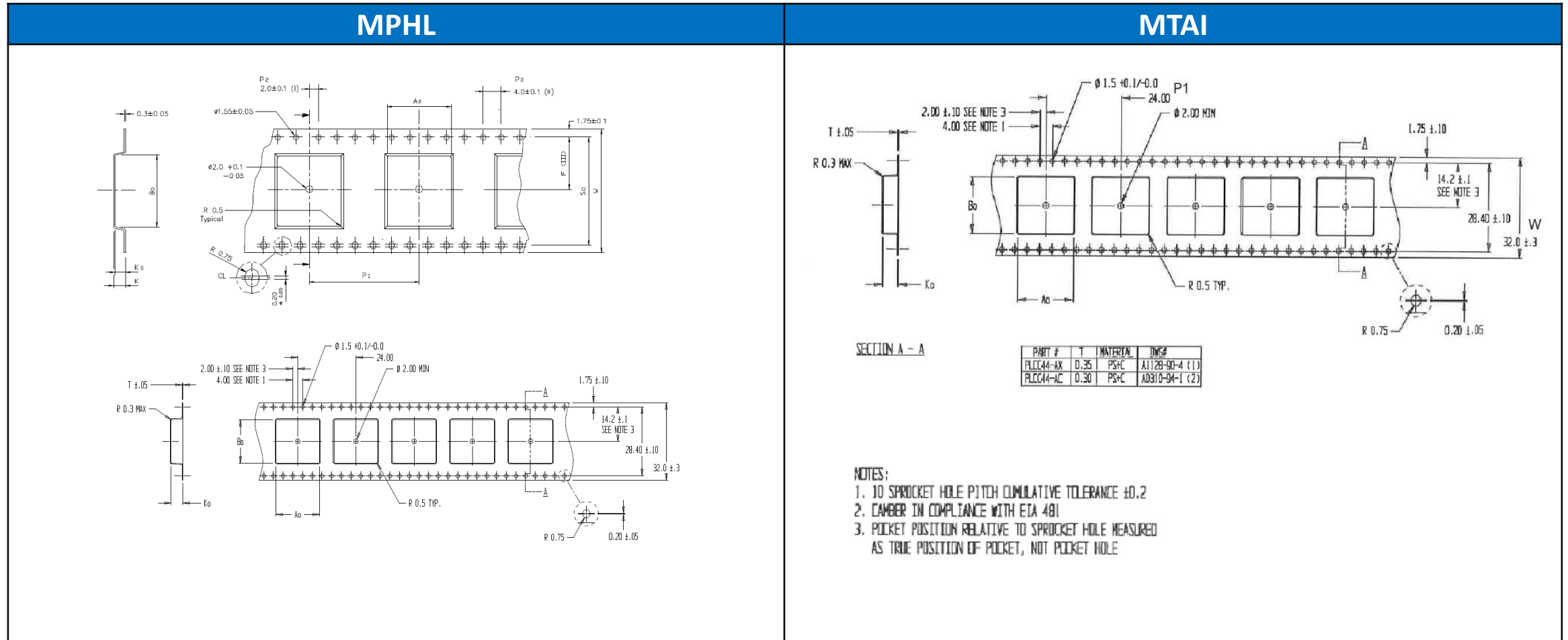
Pre and Post Change Summary – Pin 1 Orientation

MPHL	MTAI
 Quadrant 1-2	 Quadrant 1-2

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

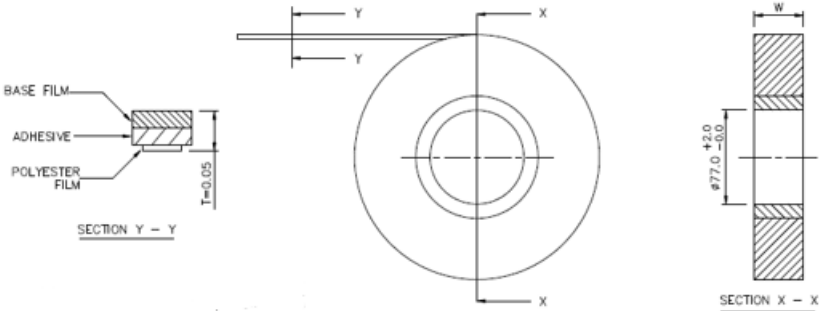
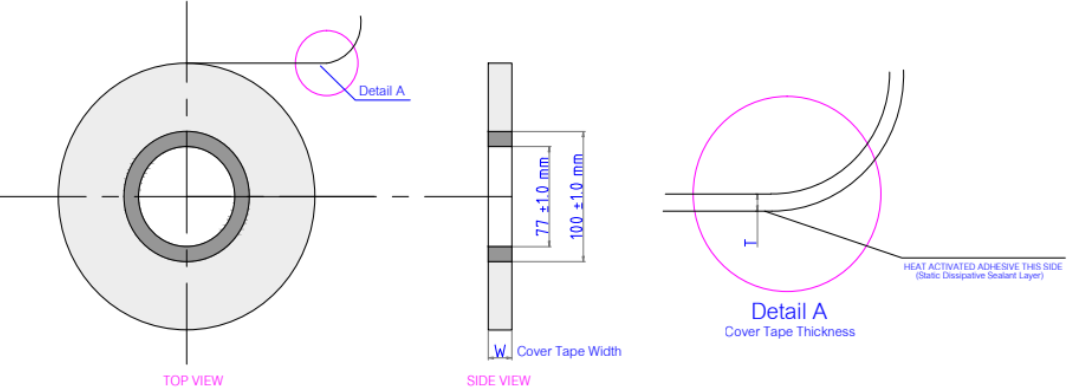
MPHL	MTAI
Units per reel: 500 1 reel per bag	Units per reel: 500 1 reel per bag

Pre and Post Change Summary – Carrier Tape



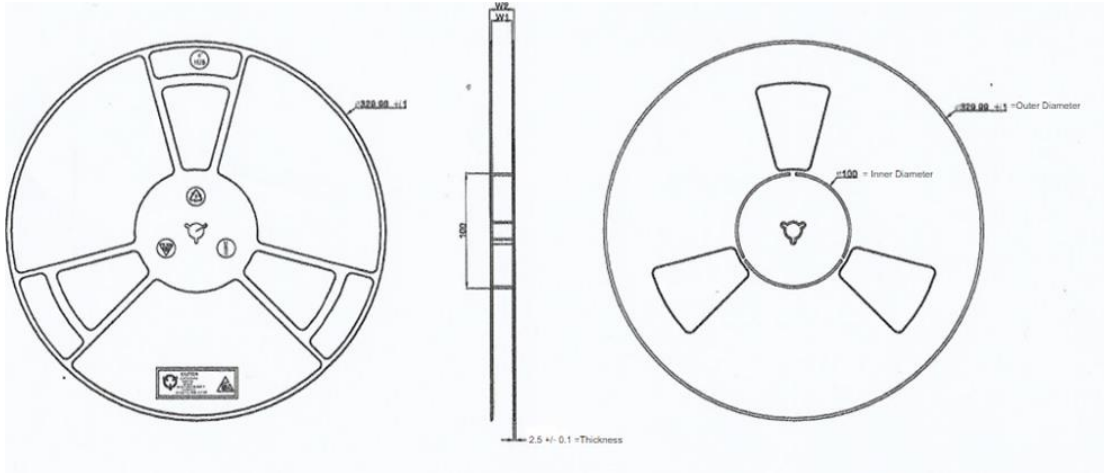
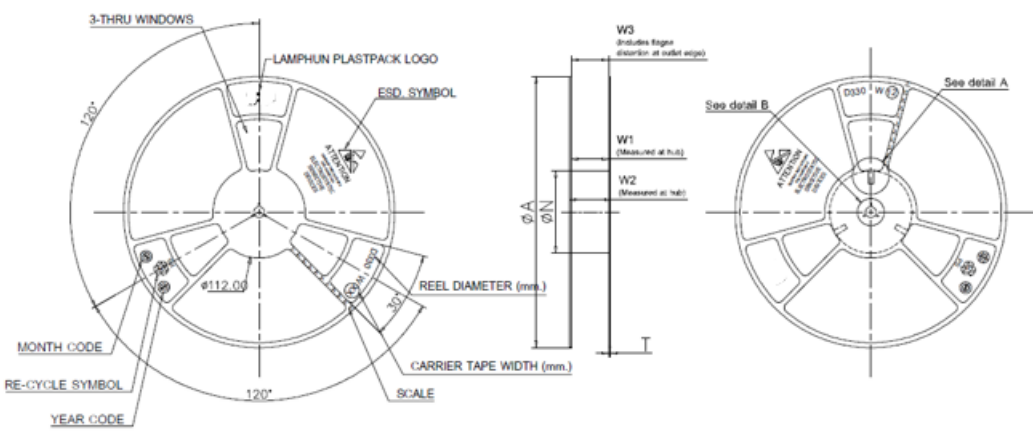
Plant	W (mm)	P (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
MPHL	32.00 ±0.30	24.00 ±0.10	18.00 ±0.10	18.00 ±0.10	4.90 ±0.10	0.30 ±0.50
MTAI	32.00 ±0.30	24.00 ±0.10	18.00 ±0.10	18.00 ±0.10	4.90 ±0.10	0.30 ±0.50

Pre and Post Change Summary – T/R Cover Tape

NPHL	MTAI
 SECTION Y - Y SECTION X - X NOTES 1 THICKNESS : 0.045–0.055mm. 2 LIGHT TRANSMITTANCE : >80% 3 TENSILE STRENGTH : 9.7kg/mm sq. 4 ELONGATION : >120% 5 SURFACE RESISTIVITY UNDERSIDE : 10^1 OHMS/SQ MAX. TOPSIDE : 10^8 OHMS/SQ DWG-B25-CV-002	 TOP VIEW SIDE VIEW Detail A Detail A HEAT ACTIVATED ADHESIVE THIS SIDE (Static Dissipative Sealant Layer) W Cover Tape Width

Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
MPHL	25.5 ±0.1	0.050 ±0.005	Clear	Pressure Adhesive Sealing
MTAI	25.5 ±0.1	0.050 ±0.010	Clear	Heat sealing

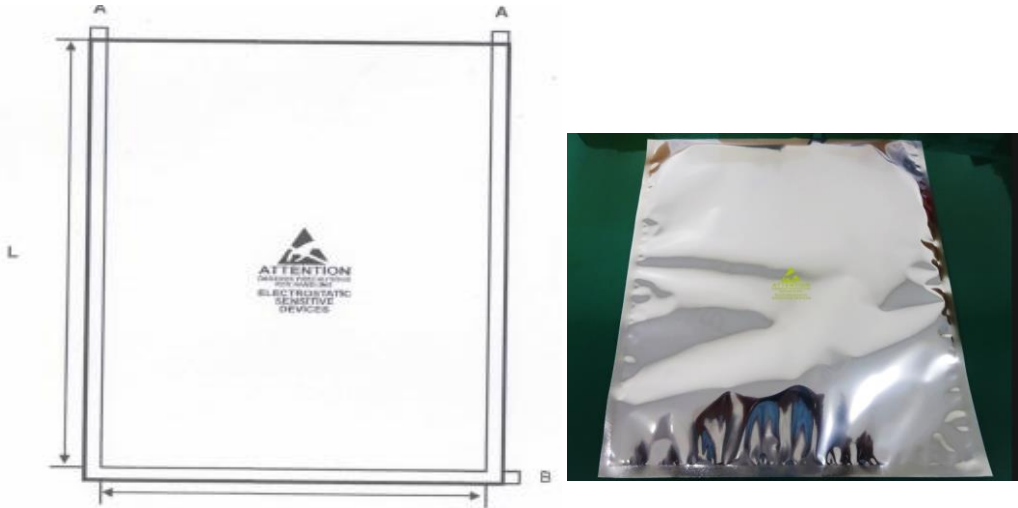
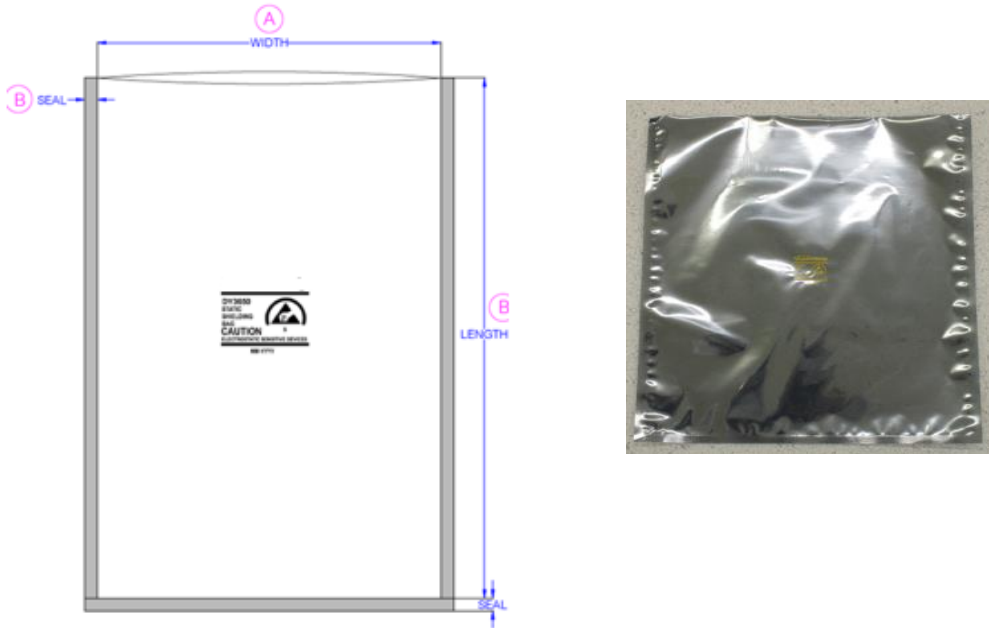
Pre and Post Change Summary – T/R Plastic Reel

MPHL	MTAI
 Technical drawing of the MPHL reel. The top view shows a circular reel with a central hub and three spokes. Dimensions include: Outer Diameter 329.50 ± 1, Inner Diameter 100 ± 1, Thickness 2.5 ± 0.1, and Hub Width 150. A side view shows the reel's profile with dimensions $W2$ and $W1$. A hub detail view shows a cross-section with dimensions 120.61, 2.4, and 13.3.	 Technical drawing of the MTAI reel. The top view shows a circular reel with a central hub and three spokes. Dimensions include: 3-THRU WINDOWS, LAMPHUN PLASTPAK LOGO, ESD SYMBOL, MONTH CODE, RE-CYCLE SYMBOL, YEAR CODE, REEL DIAMETER (mm.), CARRIER TAPE WIDTH (mm.), SCALE, W3 (includes finger dimension at outlet edge), W1 (Measured at hub), W2 (Measured at hub), and See detail A. A side view shows the reel's profile with dimensions $W3$, $W1$, $W2$, and T. A hub detail view shows a cross-section with dimensions 120, 120, and 120.
	

- NOTES :
- 1. Colour is blue (dark blue).
 - 2. Date code on flang should be same manufactory month.
 - 3. Width code on flang should be same hub width.
 - 4. All dimensions in millimeters unless otherwise stated.
 - 5. Unspecified dimensoin tolerance should be ± 0.10 mm.
 - 6. Must conform to E.I.A. standard.

Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MPHL	330 ± 1.0	100 ± 1.0	37.50	White
MTAI	330 ± 2.0	100 ± 2.0	38.40	Dark Blue

Pre and Post Change – T/R Bag

MPHL			MTAI	
				
Plant	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Static Shielding Bag (Gray)	457 +/-5	406 +/-5	0.08 +/-0.01
MTAI	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762

Pre and Post Change Summary – T/R Packing Method

MPHL

The diagram shows a white reel with three black sprocket holes. Labels point to the 'Intermediate Barcode Label' at the top, the 'Non-Sprocket Hole Side' on the right, and the '4" Hub Size Sample' at the bottom.

The diagram shows a reel inside a clear plastic bag. Labels point to the 'Open end bag folder' at the top, 'Seal with ESD Label (2x2)' in the center, 'Intermediate Barcode Label' on the right, and 'Shielding Bag' at the bottom. A blue box at the bottom says '> Fold over and seal with ESD'.

MSL-1 (No inner box)

MTAI

The diagram shows a reel with a 'Label' pointing to the top sprocket hole area.

The diagram shows a reel inside a clear plastic bag. Labels point to the 'Static Sensitive Bag' at the top, 'SSB' (Static Sensitive Bag) in the center, and 'Label' on the right.

The diagram shows a reel inside a clear plastic bag. A label points to the 'Antistatic Tape' at the top.

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	8
M01-013 (B2)	35.5x35.5x4	1
M01-014 (B3)	35.5x35.5x6	1
M01-015 (B8)	35.5x35.5x16.5	4

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

Diagram showing the steps to pack a reel into a B2/B3 carton box.

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

Diagram showing the steps to pack a reel into a B8 carton box.

Example: Packing for tape and reel in carton box TT

Diagram showing the steps to pack a reel into a TT carton box.

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QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: MFOL-25ONMP090

Date:
August 13, 2025

**Qualification of MTAI as a new final test site for
AT27C1024-45JU, AT27C1024-45JU-T, AT27C1024-70JU,
AT27C1024-70JU-T, AT27C4096-90JU, AT27C4096-90JU-T,
AT27C4096-55JU, and AT27C4096-55JU-T catalog part
numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm)
package.**



Purpose: Qualification of MTAI as a new final test site for AT27C1024-45JU, AT27C1024-45JU-T, AT27C1024-70JU, AT27C1024-70JU-T, AT27C4096-90JU, AT27C4096-90JU-T, AT27C4096-55JU, and AT27C4096-55JU-T catalog part numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm) package.

CCB No.: 7196

Test / Evaluation	Test Condition / Parameters	Sample Size	Qty of Lots	Fail/Accept Criteria	Result
Bin and Yield Comparison	Test the same units at existing and destination locations and compare Bin and Yield data.	3000	1	$\leq 0.1\%$	Passed
Parametric / Characterization Comparison	Characterize the same units at existing and destination locations and compare data.	33	1	$\leq 10\%$	Passed
Correlation Lot Report	- Yield comparison between systems and test sites. - Accept on yield match within 0.1%	33	1	$\leq 0.1\%$	Passed