Product Change Notification: CENO-23ZIYI710

Date:

09-Apr-2025

Product Category:

Memory

Notification Subject:

CCB 7231.015 Final Notice: Qualification of MMT as a new final test site for selected AT27BV1024, AT27C2048, AT27C1024 and AT27C4096 device families available in 44L PLCC (16.6x16.6x4.4mm) package.

Affected CPNs:

CENO-23ZIYI710_Affected_CPN_04092025.pdf
CENO-23ZIYI710_Affected_CPN_04092025.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 MMT as a new final test site for selected AT27BV1024, AT27C2048, AT27C1024 and AT27C4096 device families available in 44L PLCC (16.6x16.6x4.4mm) package.

Pre and Post Summary Changes:

		Pre Change	Post Change
Final Test Site		Microchip Technology Operations (Phils.) Corp. (MPHL)	Microchip Technology Thailand (Branch) (MMT)
Carrier Tape		With minor dimensional change. See Pre and Post change summary for comparison.	
Plastic Reel			
Packing Method	**Tape and Reel**	See Pre and Post change summary for comparison.	

	Tube	

Impacts to Datasheet: None

Change Impact: None

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

Change Implementation Status: In Progress

Estimated First Ship Date: 01 May 2025 (date code: 2518)

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

Timetable Summary:

	March 2025					**April 2025**				**May 2025**				
Work Week	09	10	11	12	13	14	15	16	17	18	19	20	21	22
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: March 26, 2025: Issued initial notification.
April 09, 2025: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on May 01, 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_CENO-23ZIYI710-Pre and Post Change Summary.pdf
PCN_CENO-23ZIYI710_Qualification_Report.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.

Affected Catalog Part Numbers (CPN)

AT27BV1024-90JU

AT27C2048-55JU

AT27C2048-90JU

AT27C2048-55JU-T

AT27BV1024-90JU-T

AT27C2048-90JU-T

AT27C1024-45JU

AT27C1024-45JU-T

AT27C1024-70JU

AT27C1024-70JU-T

AT27C4096-90JU

AT27C4096-90JU-T

AT27C4096-55JU

AT27C4096-55JU-T

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: CENO-23ZIYI710

Date:
March 24, 2025

Qualification of MMT as a new final test site for selected AT27BV1024, AT27C2048, AT27C1024 and AT27C4096 device families available in 44L PLCC (16.6x16.6x4.4mm) package.

Purpose: **Qualification of MMT as a new final test site for selected AT27BV1024, AT27C2048, AT27C1024 and AT27C4096 device families available in 44L PLCC (16.6x16.6x4.4mm) package.**

CCB No.: **7231.015**

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	≤0.1%	**Passed**
Parametric / Characterization Comparison	Characterize the same units at existing and destination locations and compare data.	33	1	≤10%	**Passed**
Correlation Lot Report	Accept on yield match within 0.1%	33	1	≤0.1%	**Passed**

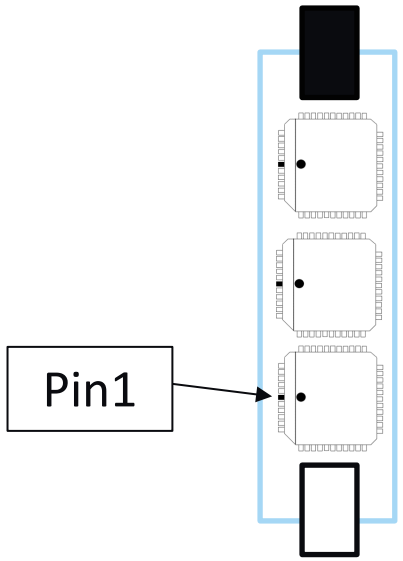
CCB 7231.015
Pre and Post Change Summary
PCN #: CENO-23ZIYI710

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

SMART | CONNECTED | SECURE

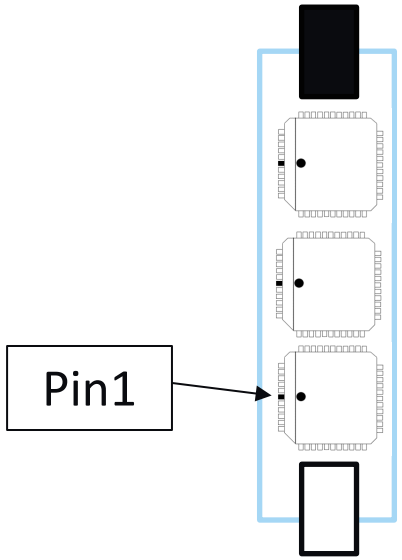
TUBE - Plug/Pin Color

MPHL



Media	Pin1 Side Color	Opposite Side Color
Pin	White	Black

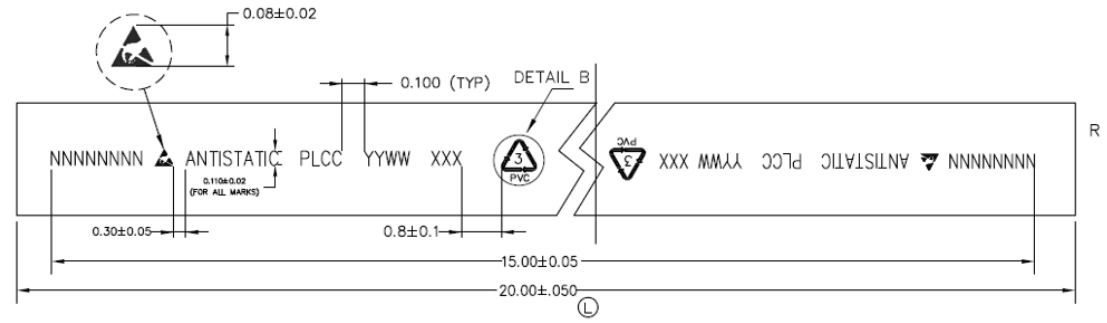
MMT

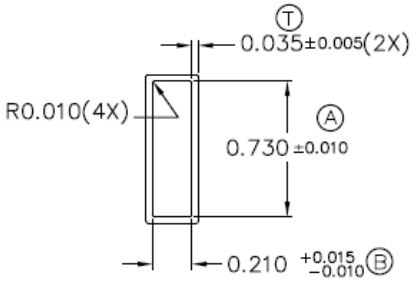


Media	Pin1 Side Color	Opposite Side Color
Plug	White	Black

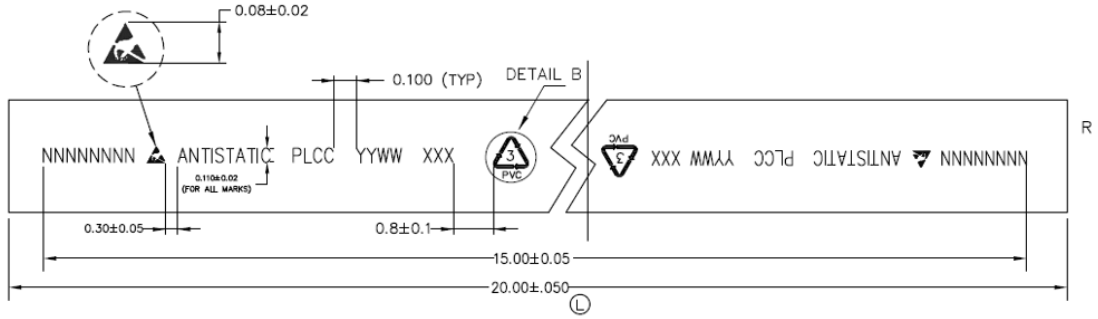
TUBE

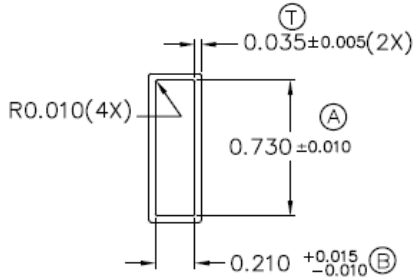
MPHL





MMT

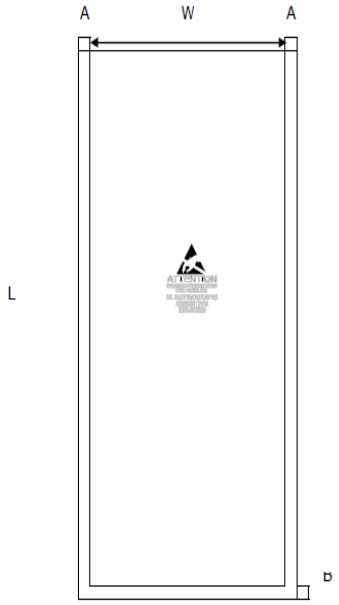




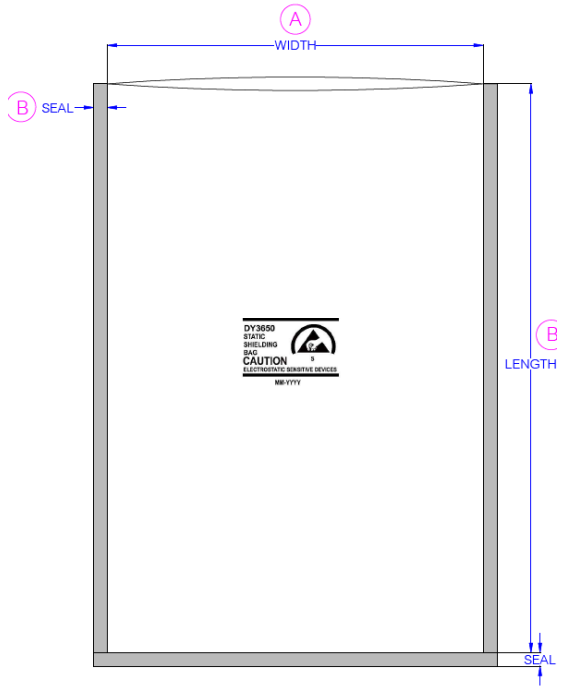
Location	Tube Length (inch)	Dimension	Unit per Tube	Tube per Bag	Tube Color
MPHL	20.00 +/- 0.050	See on drawing	27	20	Transparent Clear
MMT	20.00 +/- 0.050	See on drawing	27	20	Transparent Clear

TUBE - BAG

MPHL



MMT



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

TUBE - Packing Method Non-Dry Pack (MSL-1)

MPHL

(No inner box)

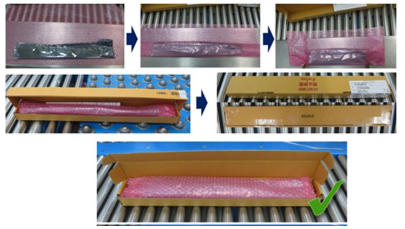
MMT

MSL-1 (No inner box)

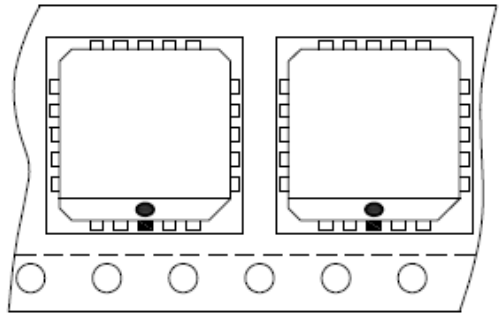
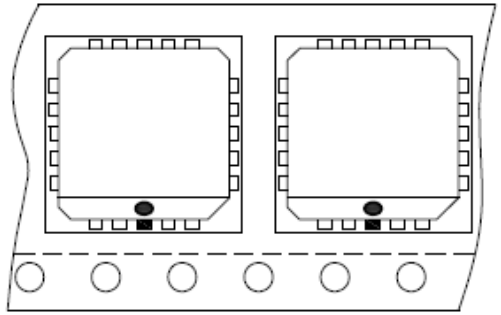
Carton for product in tubes media (MSL-1)

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

Example:



Tape and Reel - Pin1 Orientation Quadrant

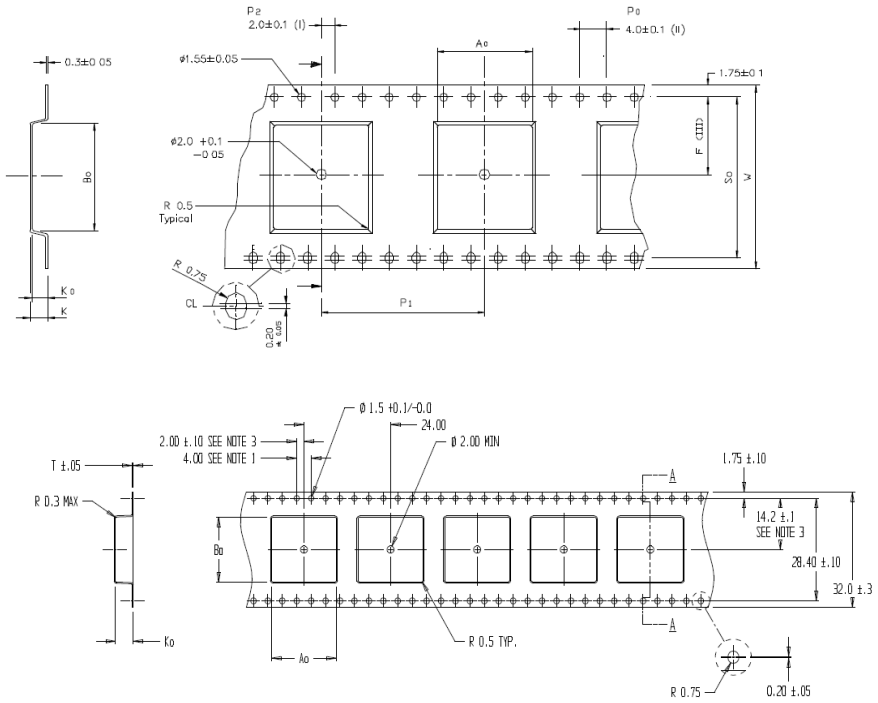
MPHL	MMT
	
Quadrant 1-2	Quadrant 1-2

Tape and Reel - Base Quantity Multiple (BQM) per reel

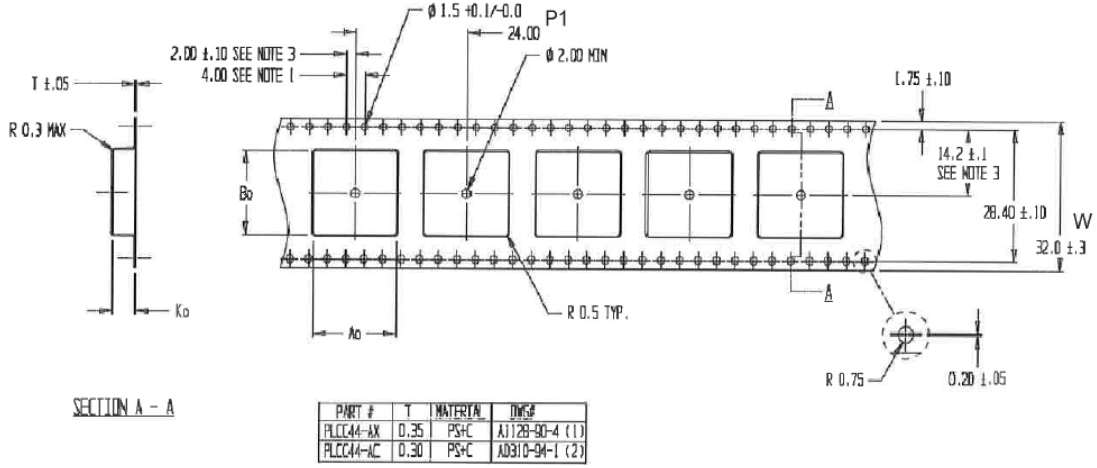
MPHL	MMT
Units per reel: 500 1 reel per bag	Units per reel: 500 1 reel per bag

Tape and Reel - Carrier Tape

MPHL



MMT



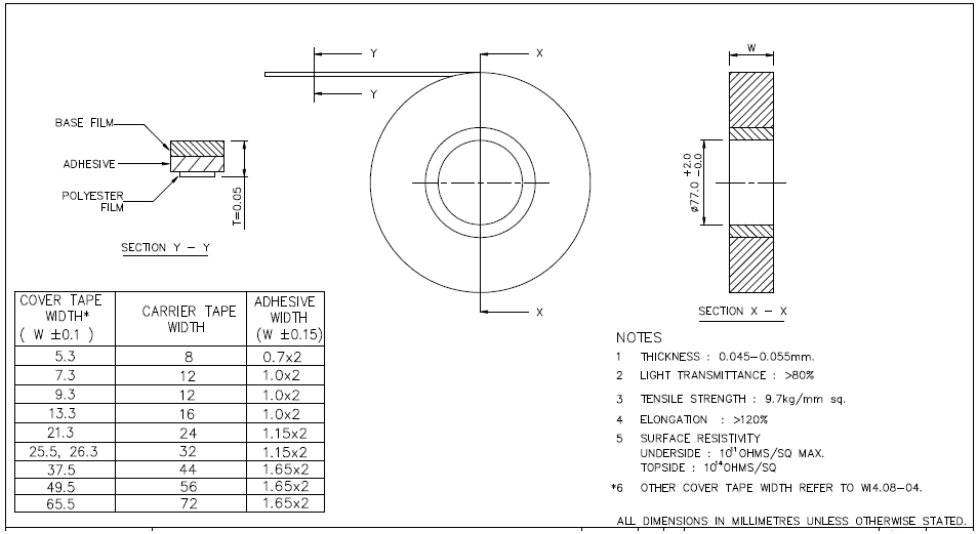
SECTION A - A

PART #	T	MATERIAL	DWG#
PLCC44-AX	0.35	PS+C	A1128-80-4 (1)
PLCC44-AC	0.30	PS+C	A0310-94-1 (2)

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
MMT	32.00 ±0.30	24.00 ±0.10	18.00 ±0.10	18.00 ±0.10	4.90 ±0.10	0.30 ±0.50

Tape and Reel - Cover Tape

MPHL

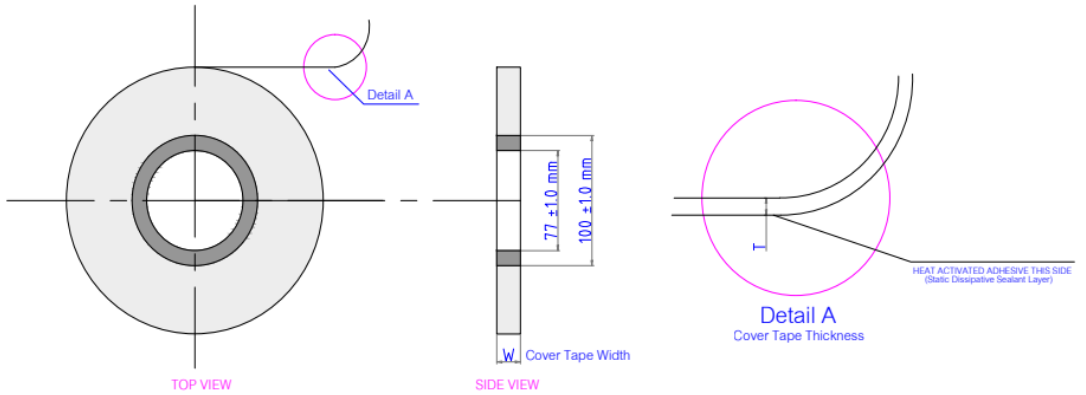


COVER TAPE WIDTH* (W ±0.1)	CARRIER TAPE WIDTH	ADHESIVE WIDTH (W ±0.15)
5.3	8	0.7x2
7.3	12	1.0x2
9.3	12	1.0x2
13.3	16	1.0x2
21.3	24	1.15x2
25.5, 26.3	32	1.15x2
37.5	44	1.65x2
49.5	56	1.65x2
65.5	72	1.65x2

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^{4}OHMS/SQ
*6 OTHER COVER TAPE WIDTH REFER TO W14.08–04.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

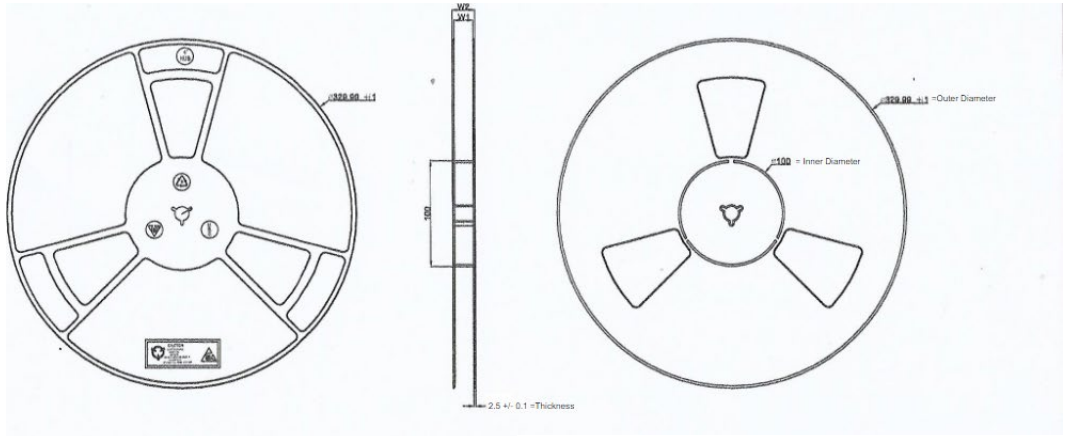
MMT



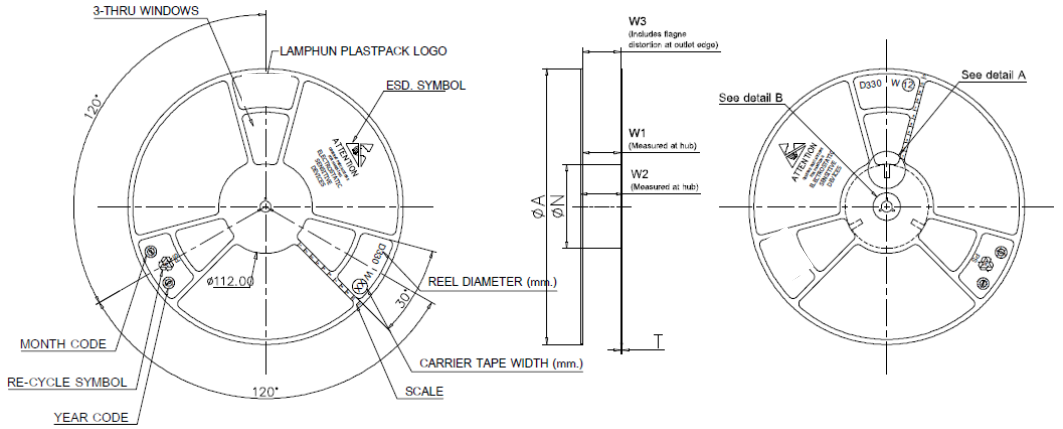
Plant	Width W (mm.)	Thickness T (mm.)	Color	Sealing Methodology
MPHL	25.5 ±0.1	0.050 ±0.005	Clear	Pressure Adhesive Sealing
MMT	25.5 ±0.1	0.050 ±0.010	Clear	Heat sealing

Tape and Reel - Plastic Reel

MPHL



MMT

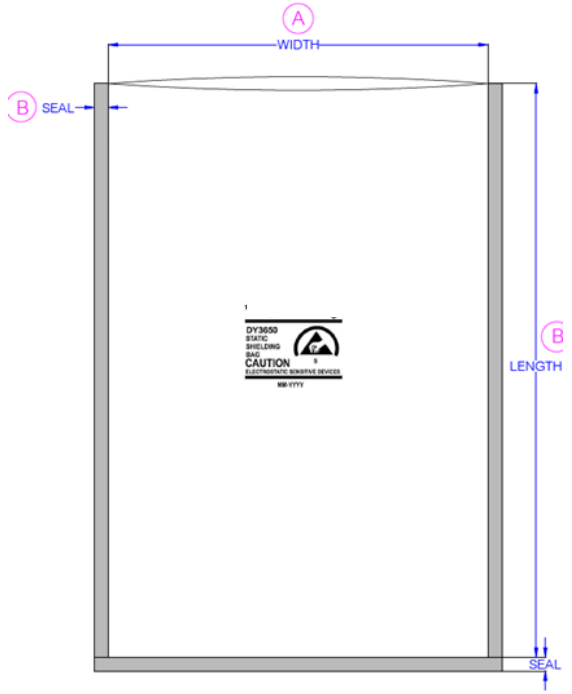


Plant	Reel Diameter (mm.)	Reel Hub Size (mm)	Reel Width Max (mm.)	Color
MPHL	330 ±1.0	100 ±1.0	37.50	White
MMT	330 ±2.0	100 ±2.0	38.40	Dark Blue

Tape and Reel - BAG

MPHL

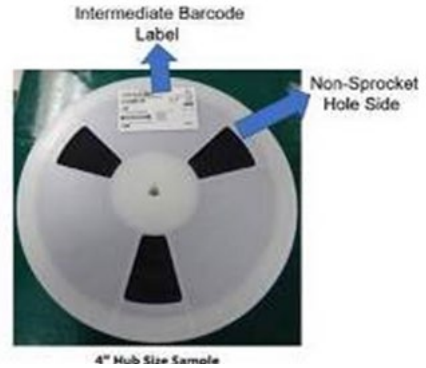
MMT



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

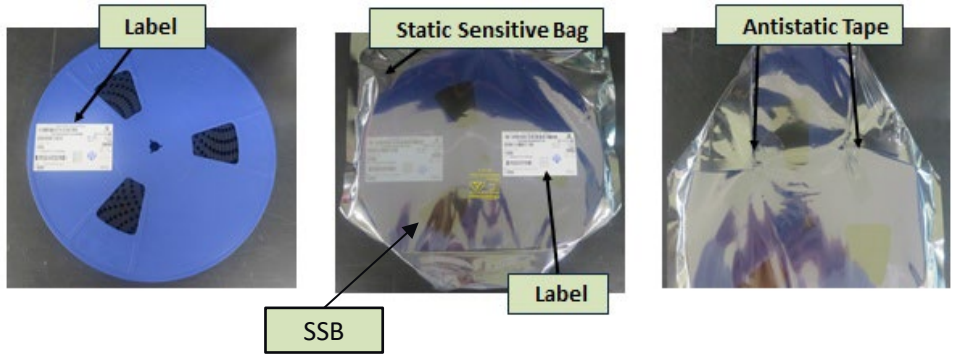
Tape and Reel - Packing Method Non-Dry Pack (MSL-1)

MPHL



MSL-1 (No inner box)

MMT



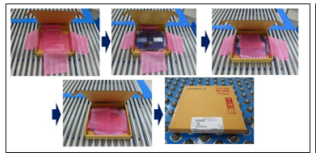
MSL-1 (No inner box)

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

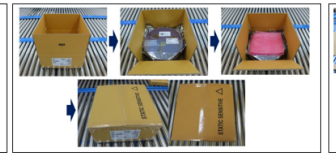
Carton	Dimension W x L x H (cm)	Number of reel per carton
M01-011 (TT)	36.5x38x39.5	8
M01-013 (B2)	35.5x35.5x4	1
M01-014 (B3)	35.5x35.5x6	1
M01-015 (B8)	35.5x35.5x16.5	4

Example:

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



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



Packing for tape and reel in carton box TT