



Product Change Notification: MFOL-25TRW0648

Date:

27-Mar-2025

Product Category:

8-Bit Microcontrollers

Notification Subject:

CCB 7231.013 Initial Notice: Qualification of MMT as a new final test site for ATMEGA644-20PU, ATMEGA644P-20PU, ATMEGA32-16PU, ATMEGA8515-16PU, ATMEGA162-16PU, ATMEGA8535-16PU, ATMEGA8535L-8PU, AT89S8253-24PU, AT89C51RC-24PU, and AT89C55WD-24PU catalog part numbers (CPN) available in 40L PDIP (.600in) package.

Affected CPNs:

[MFOL-25TRW0648_Affected_CPN_03272025.pdf](#)

[MFOL-25TRW0648_Affected_CPN_03272025.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 MMT as a new final test site for ATMEGA644-20PU, ATMEGA644P-20PU, ATMEGA32-16PU, ATMEGA8515-16PU, ATMEGA162-16PU, ATMEGA8535-16PU, ATMEGA8535L-8PU, AT89S8253-24PU, AT89C51RC-24PU, and AT89C55WD-24PU catalog part numbers (CPN) available in 40L PDIP (.600in) package.

Pre and Post Summary Changes:

	Pre Change	Post Change
Final Test Site	Microchip Technology Operations (Philippines) Corporation (MPHL)	Microchip Technology Thailand (Branch) (MMT)

Packing Method / Material	See Pre and Post Change Summary for comparison.
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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 Qualification Completion Date: April 2025

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:

	March 2025					>	April 2025				
Work Week	09	10	11	12	13		14	15	16	17	18
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: March 27, 2025: 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-25TRW0648_Pre and Post Change Summary.pdf

PCN_MFOL-25TRW0648_Qualification_Plan.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)

ATMEGA644-20PU

ATMEGA644P-20PU

ATMEGA32-16PU

ATMEGA8515-16PU

ATMEGA162-16PU

ATMEGA8535-16PU

ATMEGA8535L-8PU

AT89S8253-24PU

AT89C51RC-24PU

AT89C55WD-24PU

CCB 7231.013
Pre and Post Change Summary
PCN #: MFOL-25TRWO648

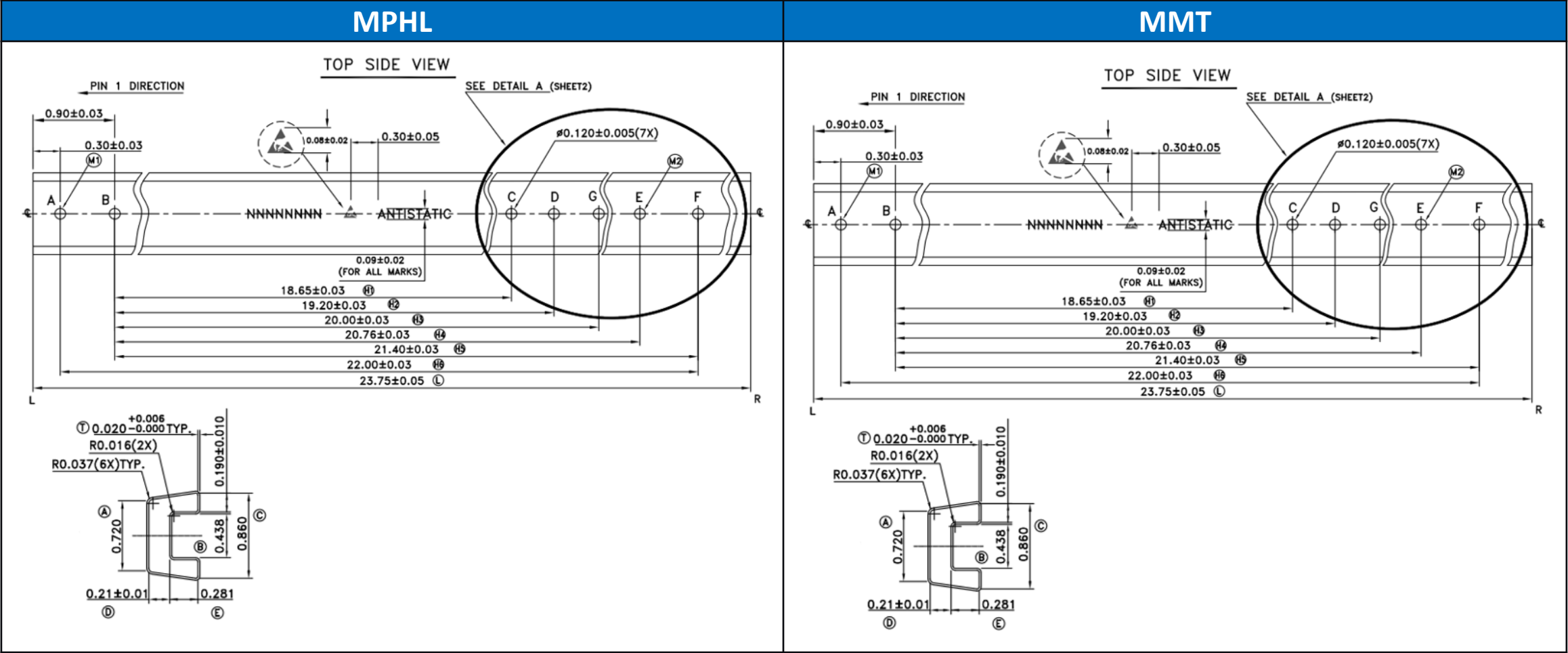


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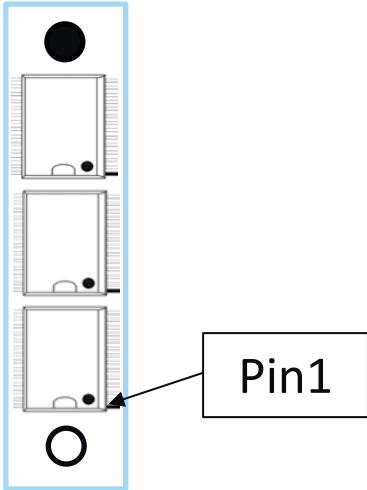
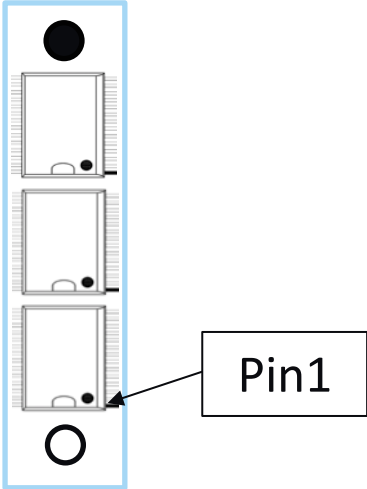
SMART | CONNECTED | SECURE

Pre and Post Change Summary - Tube

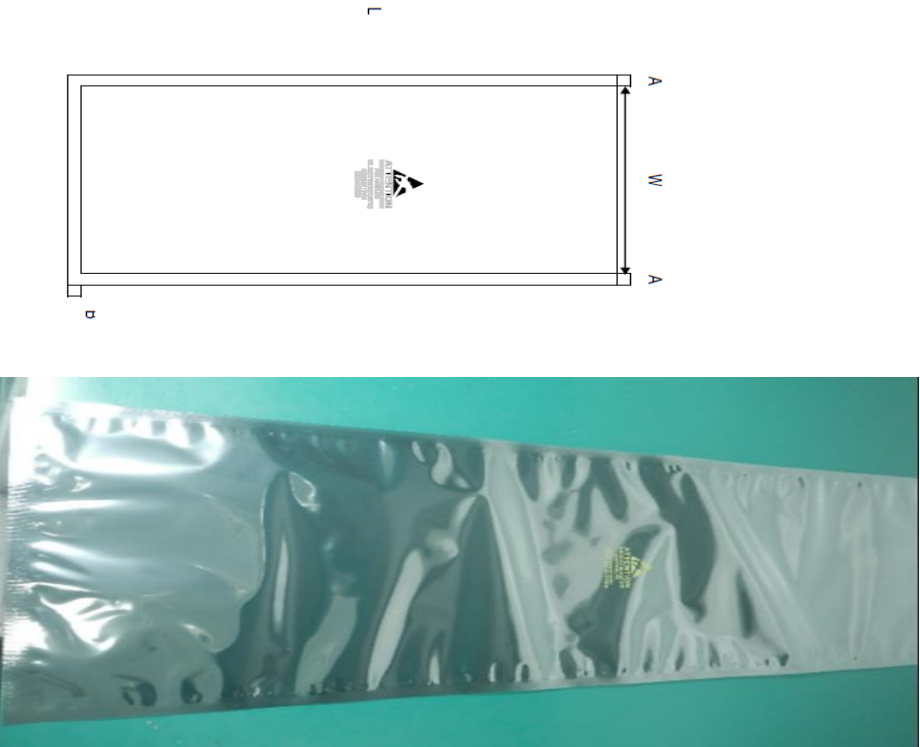
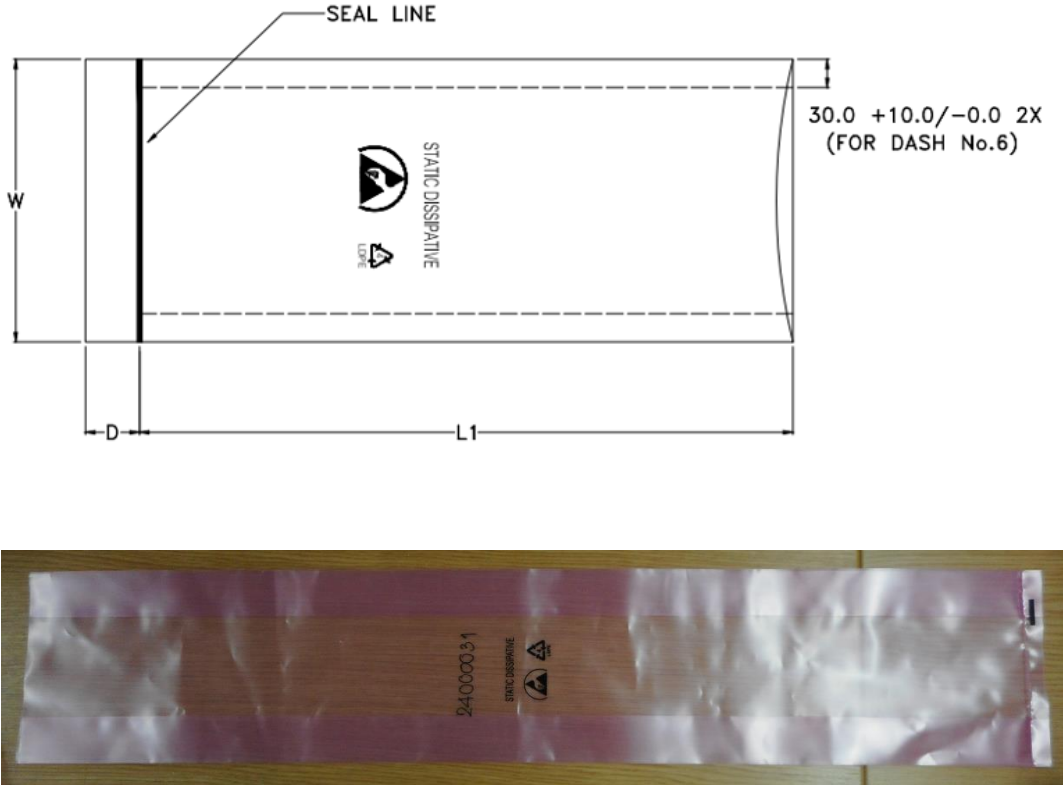


Location	Tube Length (inch)	Unit per Tube	Tube per Bag	Tube Color
MPHL	23.75 +/- 0.05	10	24	Transparent Clear
MMT	23.75 +/- 0.05	10	24	Transparent Clear

Pre and Post Change Summary – Tube (Plug/Pin Color)

MPHL			MMT		
					
Media	Pin1 Side Color	Opposite Side Color	Media	Pin1 Side Color	Opposite Side Color
Pin	White	Black	Pin	White	Black

Pre and Post Change Summary – Bag

MPHL	MMT
<div><p>The diagram shows a rectangular bag with dimensions L (length), W (width), and A (thickness). A small triangular warning symbol is visible. Below the diagram is a photograph of a gray static shielding bag with a similar symbol.</p></div>	<div><p>The diagram shows a rectangular bag with dimensions L1 (length), W (width), and D (thickness). A 'SEAL LINE' is indicated on the left side. A triangular warning symbol is present, with the text 'STATIC DISSIPATIVE' and 'LOVE' below it. To the right of the bag, the dimensions '30.0 +10.0/-0.0 2X (FOR DASH No.6)' are specified. Below the diagram is a photograph of a pink gusseted bag with a similar symbol and the text '240000 31' and 'STATIC DISSIPATIVE'.</p></div>


DWG-K19-010

Plant	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Static Shielding Bag (Gray)	762 +/- 10	228 +/- 10	0.08 +/-0.01
MMT	Antistatic Pink Gusset	760 +10/-5	140 +10/-0	0.100 +/- 0.01

Pre and Post Change Summary – Tube Packing Method Non-Dry Pack

MPHL

ESD label use for seal




Open Side of Bag

Intermediate Barcode Label


(No inner box)

MMT

Pink Anti-Static Bag



LABEL (MS-15068-9)



(No inner box)

Carton	Dimension W x L x H (cm)	Number of Bag/carton
M01-020 (PD)	15x71.5x5	1
M01-021 (PI)	17x65x8	1
M01-022 (PP)	15.5x62x14	2
M01-023 (PT)	22.5x63x16.5	3
M01-024 (P4)	32x63x15.5	4
M01-034 (P5)	36x63x16.5	5



MICROCHIP

QUALIFICATION PLAN SUMMARY

PCN #: MFOL-25TRWO648

Date:

March 20, 2025

**Qualification of MMT as a new final test site for
ATMEGA644-20PU, ATMEGA644P-20PU, ATMEGA32-16PU,
ATMEGA8515-16PU, ATMEGA162-16PU, ATMEGA8535-
16PU, ATMEGA8535L-8PU, AT89S8253-24PU, AT89C51RC-
24PU, and AT89C55WD-24PU catalog part numbers (CPN)
available in 40L PDIP (.600in) package.**

Purpose: Qualification of MMT as a new final test site for ATMEGA644-20PU, ATMEGA644P-20PU, ATMEGA32-16PU, ATMEGA8515-16PU, ATMEGA162-16PU, ATMEGA8535-16PU, ATMEGA8535L-8PU, AT89S8253-24PU, AT89C51RC-24PU, and AT89C55WD-24PU catalog part numbers (CPN) available in 40L PDIP (.600in) package.

CCB No.: 7231.013

Test Name	Test Conditions	Sample Size	Qty of Lots	Fail/Accept Criteria
Bin and Yield Comparison	Test the same units at existing and destination locations and compare Bin and Yield data.	3000	1	$\leq 0.1\%$
Parametric / Characterization Comparison	Characterize the same units at existing and destination locations and compare data.	33	1	$\leq 10\%$
Correlation Lot report	<ul style="list-style-type: none">Accept on yield match within 0.1%	33	1	$\leq 0.1\%$