



Product Change Notification: MAAN-21WNLL335

Date:

28-Apr-2025

Product Category:

8-Bit Microcontrollers

Notification Subject:

CCB 7196.030 Initial Notice: Qualification of MTAI as a new final test site for AT89C51RC-24JU, AT89C55WD-24JU, AT89C55WD-24JUR, AT89LP52-20JU, AT89LP52QS840-20JUR840, AT89LS52-16JU, AT89S51-24JU, AT89S51-24JUR, AT89S52-24JU, AT89S52-24JUR, AT89S8253-24JU and AT89S8253-24JUR catalog part numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm) package.

Affected CPNs:

[MAAN-21WNLL335_Affected_CPN_04282025.pdf](#)

[MAAN-21WNLL335_Affected_CPN_04282025.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 AT89C51RC-24JU, AT89C55WD-24JU, AT89C55WD-24JUR, AT89LP52-20JU, AT89LP52QS840-20JUR840, AT89LS52-16JU, AT89S51-24JU, AT89S51-24JUR, AT89S52-24JU, AT89S52-24JUR, AT89S8253-24JU and AT89S8253-24JUR catalog part numbers (CPN) 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

		(HQ) (MTAI)
Packing Method/Material	See pre and post change summary 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: June 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:

	April 2025					>	June 2025				
Work Week	14	15	16	17	18		23	24	25	26	27
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: April 28, 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_MAAN-21WNLL335 Qual Plan.pdf

PCN MAAN-21WNLL335 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.

MAAN-21WNLL335 - CCB 7196.030 Initial Notice: Qualification of MTAI as a new final test site for AT89C51RC-24JU, AT89C55WD-24JU, AT89C55WD-24JUR, AT89LP52-20JU, AT89LP52QS840-20JUR840, AT89LS52-16JU, AT89S51-24JU, AT89S51-24JUR, AT89S52-24JU, AT89S52-24JUR, AT89S8253-24JU and AT89S8253-24JUR catalog part numbers (CPN) available in 44L PLCC (16.6x16.6x4.4mm) package.

Affected Catalog Part Numbers (CPN)

AT89C51RC-24JU

AT89C55WD-24JU

AT89C55WD-24JUR

AT89LP52-20JU

AT89LP52QS840-20JUR840

AT89LS52-16JU

AT89S51-24JU

AT89S51-24JUR

AT89S52-24JU

AT89S52-24JUR

AT89S8253-24JU

AT89S8253-24JUR

CCB 7196.030

Pre and Post Change Summary

PCN #: MAAN-21WNLL335



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

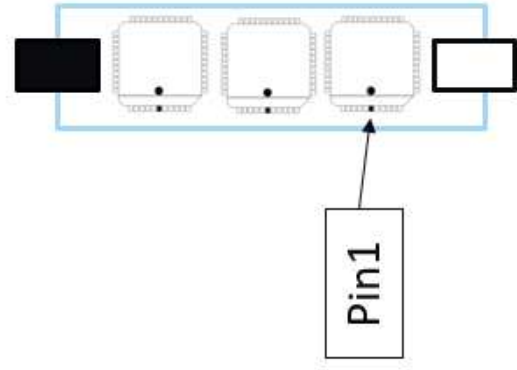
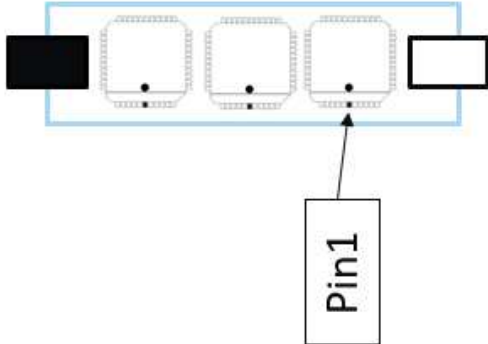


SMART | CONNECTED | SECURE

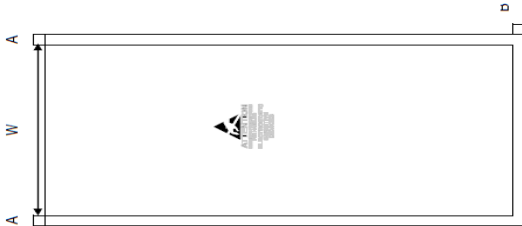
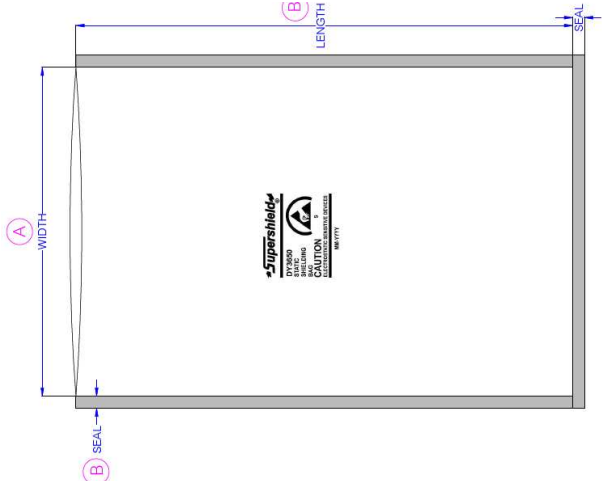
Pre and Post Change Summary - TUBE

MPHL		MTAI			
0.08±0.02 0.100 (TYP) 0.30±0.05 0.8±0.1 15.00±0.05 20.00±0.05 (L) ANTISTATIC PLCC Y Y W W XXX ANTISTATIC PLCC Y Y W W					

Pre and Post Change Summary - TUBE

MPHL	MTAI												
 Diagram of the MPHL tube showing the Pin1 location. The tube is a rectangular block with three circular ports on the top surface. A blue box highlights the central port, and an arrow points to it with the label 'Pin1'.	 Diagram of the MTAI tube showing the Pin1 location. The tube is a rectangular block with three circular ports on the top surface. A blue box highlights the central port, and an arrow points to it with the label 'Pin1'.												
<table><tr><th>Media</th><th>Pin1 Side Color</th><th>Opposite Side Color</th></tr><tr><td>Plug</td><td>White</td><td>Black</td></tr></table>	Media	Pin1 Side Color	Opposite Side Color	Plug	White	Black	<table><tr><th>Media</th><th>Pin1 Side Color</th><th>Opposite Side Color</th></tr><tr><td>Plug</td><td>White</td><td>Black</td></tr></table>	Media	Pin1 Side Color	Opposite Side Color	Plug	White	Black
Media	Pin1 Side Color	Opposite Side Color											
Plug	White	Black											
Media	Pin1 Side Color	Opposite Side Color											
Plug	White	Black											

Pre and Post Change Summary - TUBE (Bag)

MPHL		MTAI		
				
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 Non-Dry Pack)

MPHL

MTAI

ESD label use for seal

Intermediate Barcode Label

Open Side of Bag



(No inner box)





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

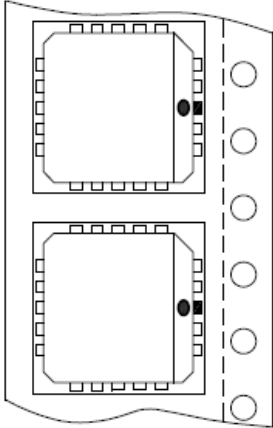
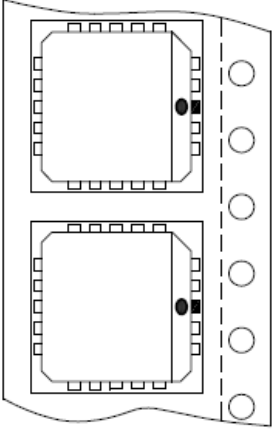
Example:



Base Quantity Multiple – Tape and Reel

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

Pin 1 Orientation – Tape and Reel

MPHL	MTAI
 Quadrant 1-2	 Quadrant 1-2

Carrier Tape – Tape and Reel

MPHL

Technical drawing of the MPHL plant showing side elevation and section A-A. The side elevation includes dimensions: P2 2040±1 (0), P0 4020±1 (0), A0, W, P1, K, K0, and various radii like R0.5 and R0.75. The section A-A shows the internal structure with dimensions: 1±.05, R0.3 MAX, 2.00 ±.10 SEE NOTE 3, 4.00 SEE NOTE 1, Ø1.5 ±0.1/±0.0 P1, Ø2.00 MIN, 14.21.1 SEE NOTE 3, 28.40 ±1.0, 32.0 ±1.3, 1.75 ±1.0, R0.75, 0.20 ±.05, and R0.5 TYP.

MTAI

Technical drawing of the MTAI plant showing side elevation and section A-A. The side elevation includes dimensions: P1 1421.1, P0 2840±1.0, B0, W, K0, and various radii like R0.5 and R0.75. The section A-A shows the internal structure with dimensions: 1±.05, R0.3 MAX, 2.00 ±.10 SEE NOTE 3, 4.00 SEE NOTE 1, Ø1.5 ±0.1/±0.0 P1, Ø2.00 MIN, 14.21.1 SEE NOTE 3, 28.40 ±1.0, 32.0 ±1.3, 1.75 ±1.0, R0.75, 0.20 ±.05, and R0.5 TYP.

PART #	T	MATERIAL	THICK
BLCC4H-AM	0.35	PSC	A1/28-40-4 (1)
BLCC4H-C	0.30	PSC	A0317-54-1 (2)

Plant

MPHL

32.00 ±0.30

W (mm)

24.00 ±0.10

P (mm)

18.00 ±0.10

A0 (mm)

18.00 ±0.10

B0 (mm)

4.90 ±0.10

K0 (mm)

Thickness (mm)

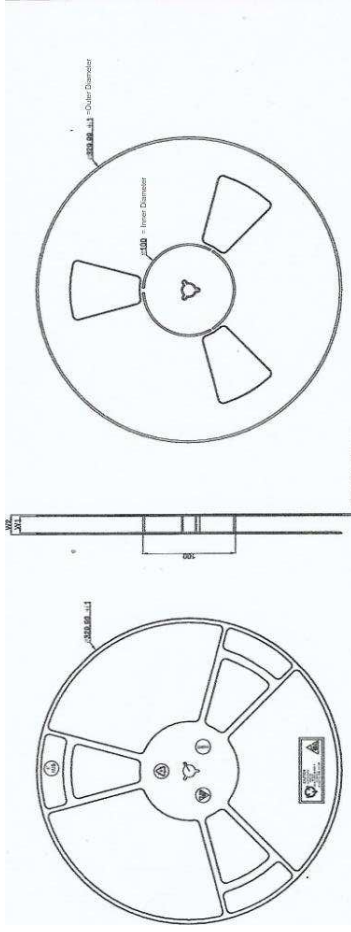
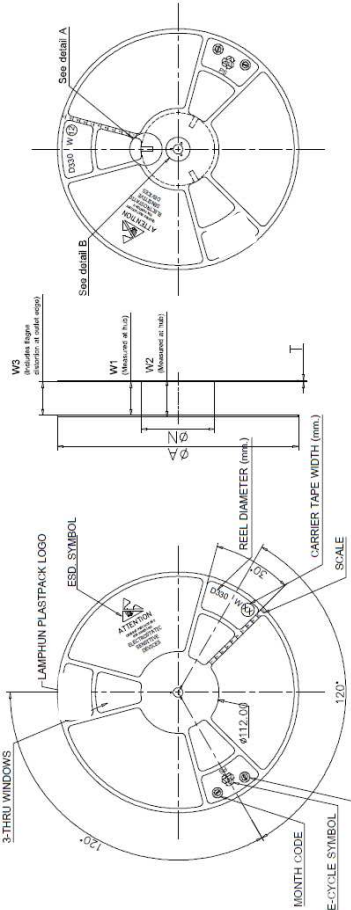
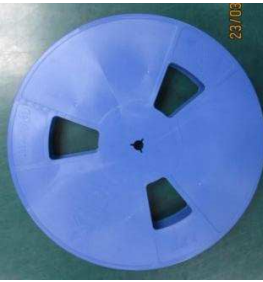
0.30 ±0.50

0.30 ±0.50

Cover Tape – Tape and Reel

MPHL		MTAI		
Technical drawing of MPHL tape showing top view, side view, and detail A. The top view is a circle with a central hole. The side view shows the tape thickness and width. Detail A shows the adhesive layer and the heat-activated adhesive layer.		Technical drawing of MTAI tape showing top view, side view, and detail A. The top view is a circle with a central hole. The side view shows the tape thickness and width. Detail A shows the adhesive layer and the heat-activated adhesive layer.		
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

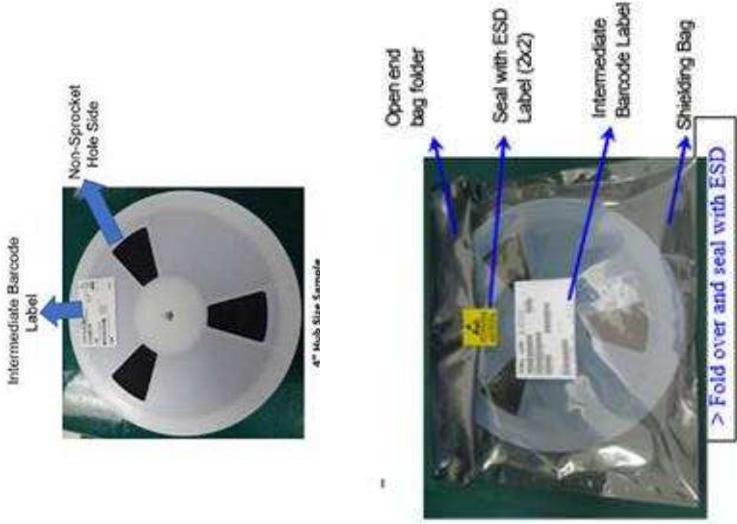
Plastic Reel – Tape and Reel

MPHL	MTAI
 	 

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 Summary - Tape & Reel Packing Method Non-Dry Pack

MPHL



MSL-1 (No inner box)

MTAI



MSL-1 (No inner box)

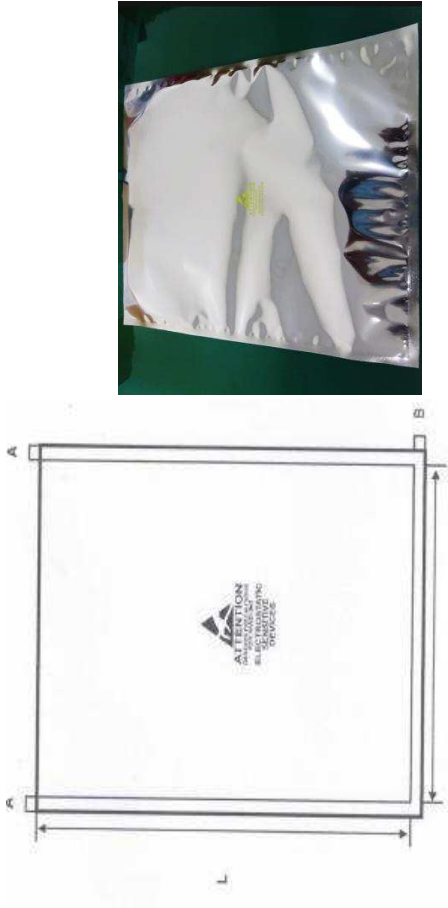
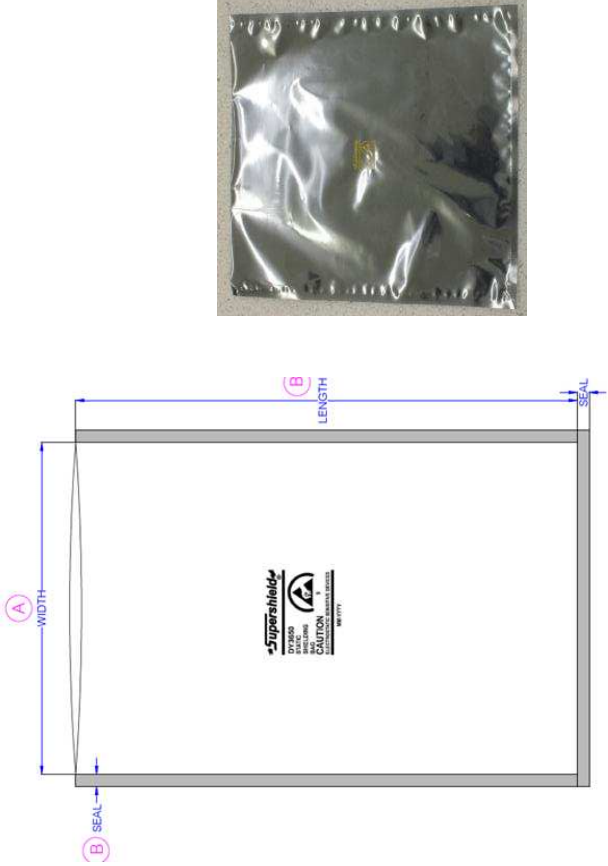
Carton for product in T/R media (MSL-1)

Carton	Dimension W x L x H (cm)	Number of reel per carton
M01-011 (TT)	36.5x38x39.5	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



BAG

MPHL		MTAI	
 The diagram shows a rectangular bag with dimensions L (length) and B (width). A warning label is centered on the bag. The photo shows a white, crinkled bag with a yellow warning label.		 The diagram shows a rectangular bag with dimensions A (width) and B (length). It features a 'SuperShield' logo and a 'SEAL' label. The photo shows a silver, crinkled bag with a yellow warning label.	

Plant	Bag type	Length (mm)	Width (mm)	Thickness (mm)
MPHL	Static Shielding Bag (Gray)	406 +/-5	356+/-5	0.08 +/-0.01
MTAI	Static Shielding Bag	420 +5/-0	370 +5/-0	0.0762