



Product Change Notification / NTDO-28XWRK640

Date:

23-Aug-2021

Product Category:

Microprocessors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4758 Initial Notice: Qualification of MPHL as additional final test site for selected ATSAMA5D2xx device family in 289L LFBGA (14x14x1.4mm) package.

Affected CPNs:

[NTDO-28XWRK640_Affected_CPN_08232021.pdf](#)
[NTDO-28XWRK640_Affected_CPN_08232021.csv](#)

Notification Text:**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 MPHL as additional final test site for selected ATSAMA5D2XX device family in 289L LFBGA (14x14x1.4mm) package.

Pre and Post Change Summary:

		Pre Change	Post Change	
Final Test Site		ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Base Quantity Multiple (BQM)	T/R	1000	1000	1000
	Tray	119	119	119
Packing Color	T/R	White	White	White
	Tray	Black	Black	Black
Pin 1 orientation		Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape		No dimensional changes*		
Cover Tape		Minor dimensional changes*		
Reel	Color	White	White	White
	Dimension	With dimensional changes*		
Packing Method		See attached Pre and Post comparison		

* See attached Pre and Post Change comparison

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change: To improve manufacturability by qualifying MPHL as additional final test site.

Change Implementation Status:

In Progress

Estimated Qualification Completion Date:

December 2021

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.

Time Table Summary:

	August 2021	->	December 2021
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Workweek	3 2	3 3	3 4	3 5	3 6		4 9	5 0	51	52	1
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:

July 30, 2021: Issued Initial Notification

August 23, 2021: Re-issued initial notification to update the Notification Subject, Description of Change, Pre and Post Change Summary and Reason for Change to reflect both ASCL and MPHL in Post change as final test site.

The change described in this PCN does not alter Microchip’s current regulatory compliance regarding the material content of the applicable products.

Attachments:

- [PCN_NTDO-28XWRK640 Pre and Post Change Summary.pdf](#)
- [PCN_NTDO-28XWRK640 Qual_Plan.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.

Affected Catalog Part Numbers (CPN)

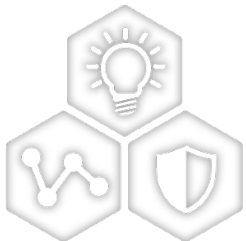
ATSAMA5D27B-CU
ATSAMA5D26B-CU
ATSAMA5D26C-CU
ATSAMA5D27C-CU
ATSAMA5D27B-CN
ATSAMA5D26B-CN
ATSAMA5D26C-CN
ATSAMA5D27C-CN
ATSAMA5D27B-CNR
ATSAMA5D26B-CNR
ATSAMA5D26C-CNR
ATSAMA5D27C-CNR
ATSAMA5D26C-CNR01
ATSAMA5D27B-CUR
ATSAMA5D26B-CUR
ATSAMA5D26C-CUR
ATSAMA5D27C-CUR

CCB 4758
Pre and Post Change Summary
PCN #: NTDO-28XWRK640



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

**Qualification of MPHL as additional final test site for selected
ATSAMA5D2xx device family in 289L LFBGA (14x14x1.4mm) package**



SMART | CONNECTED | SECURE

Pre and Post Change Summary

Final Test Location		ASE9	MPHL
Base Quantity Multiple (BQM)	T/R	1000	1000
	Tray	119	119
Packing Color	T/R	White	White
	Tray	Black	Black
Pin 1 Orientation		Quadrant 1	Quadrant 1

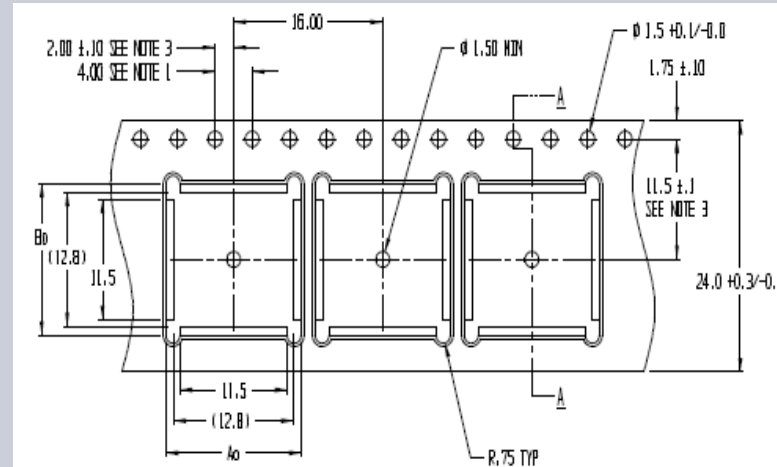
Pre and Post Change Summary

Final Test Location

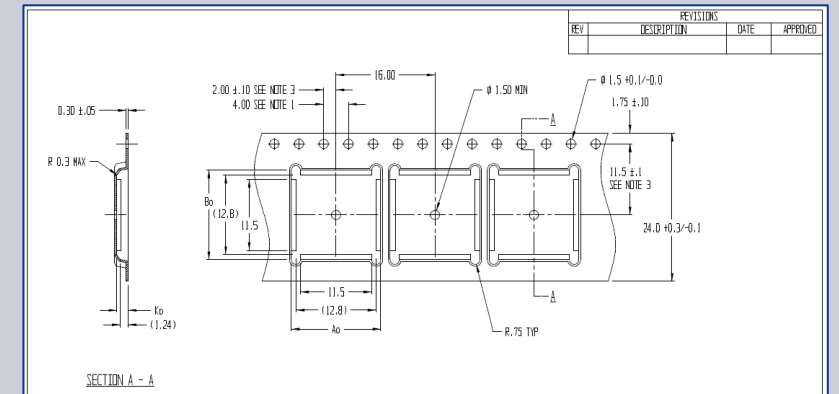
ASE9

MPHL

Carrier Tape for T/R



Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
24	16	14.5	14.5	1.84	0.3



Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness (mm)
24	16	14.5	14.5	1.84	0.3

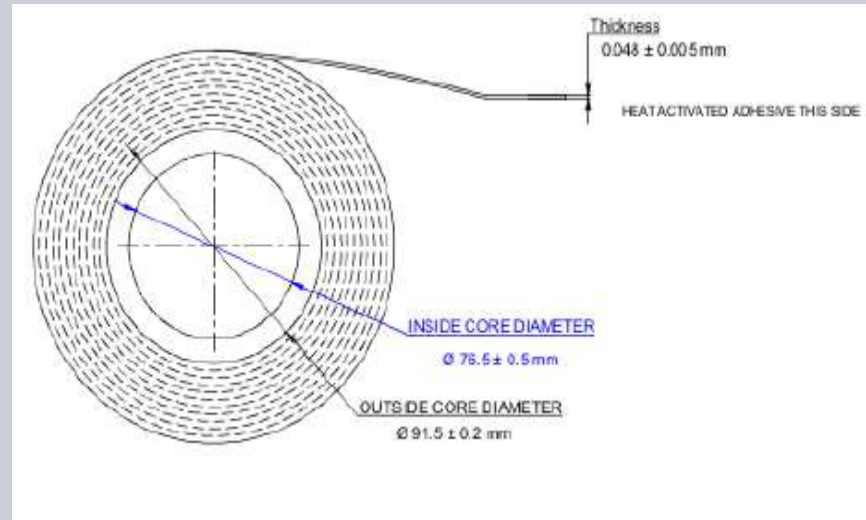
Pre and Post Change Summary

Final Test Location

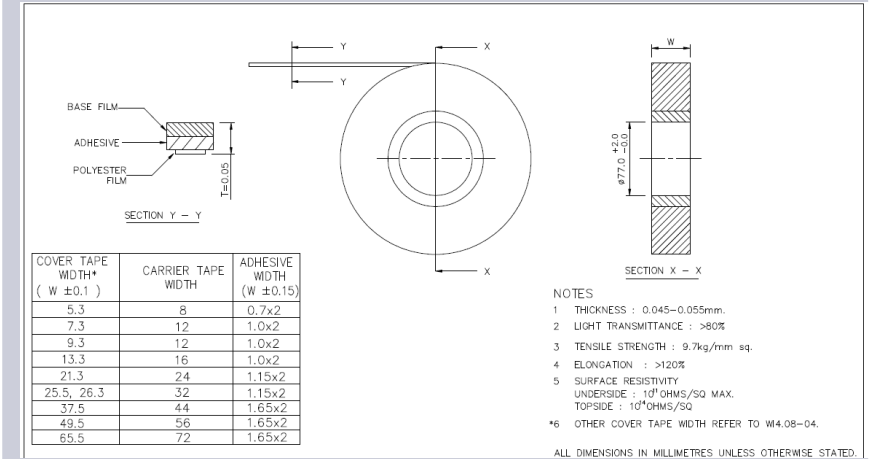
ASE9

MPHL

Cover Tape for T/R



Carrier Width	Cover Tape Width (mm)	Thickness (mm)	Sealing Methodology
24	21	0.048	Hot Press



Carrier Width	Cover Tape Width (mm)	Thickness (mm)	Sealing Methodology
24	21.3	0.05 +/- 0.0005	Pressure Seal Activate

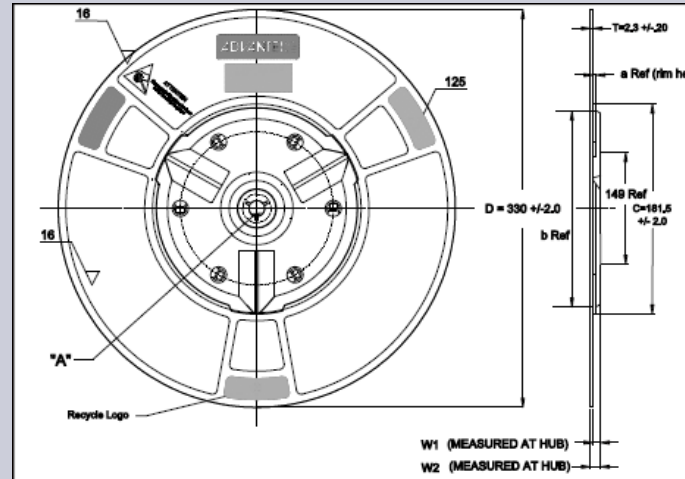
Pre and Post Change Summary

Final Test Location

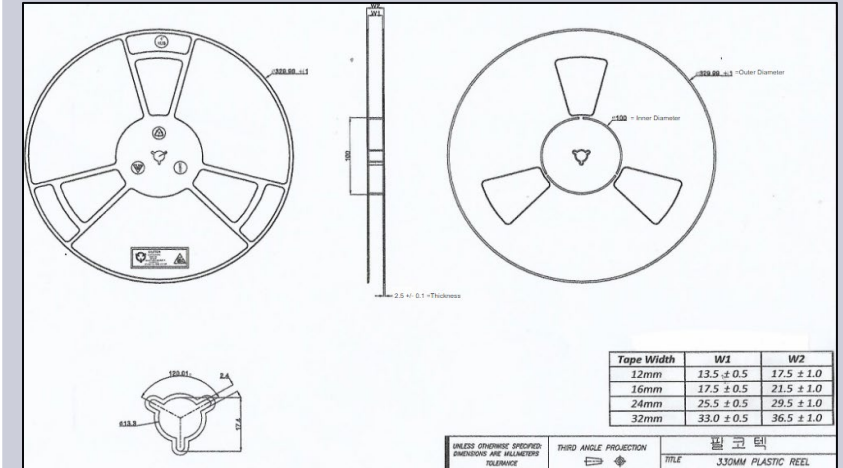
ASE9

MPHL

Plastic Reel for T/R



For Carrier Tape Width	Diameter	Hub	Color
24	330	181.5	White



For Carrier Tape Width	Diameter	Hub	Color
24	330	101.6	White

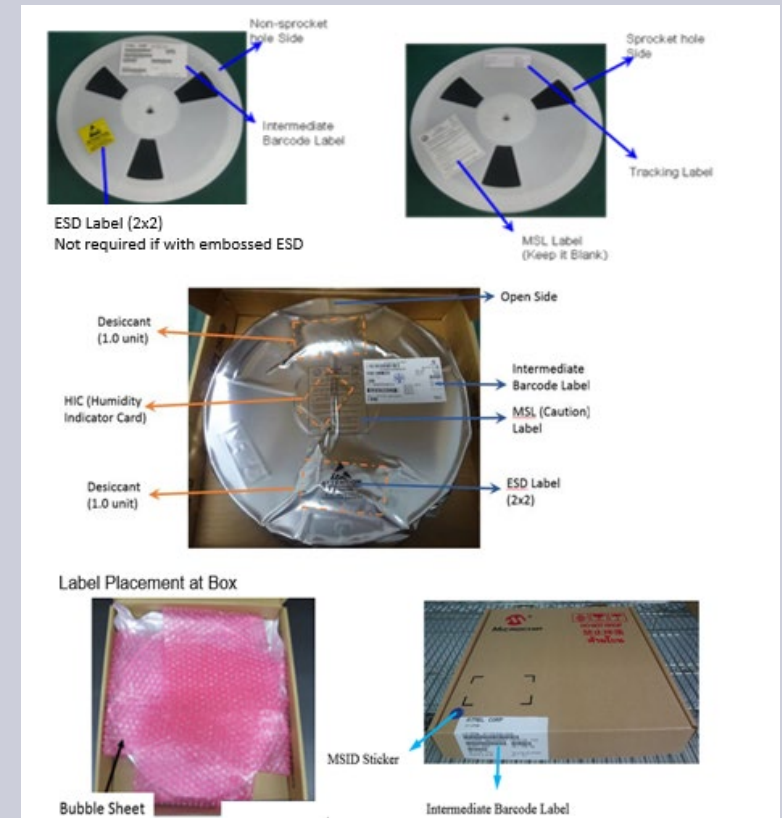
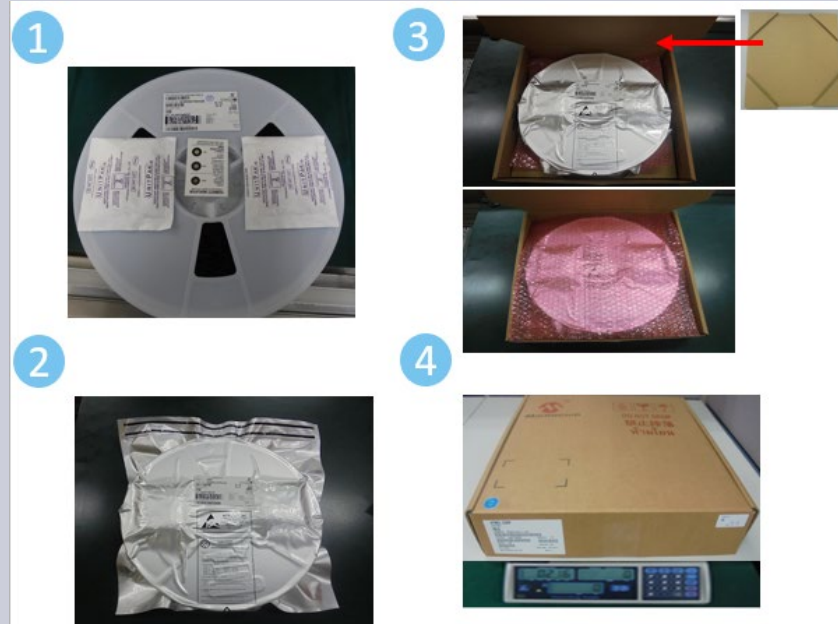
Pre and Post Change Summary

Final Test Location

ASE9

MPHL

Packing Method for T/R



Pre and Post Change Summary

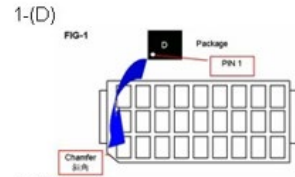
Final Test Location

ASE9

MPHL

Packing Method for Tray

1. Pin 1 orientation: near tray chamfer
2. Tray bundling : 10+1 , PP strapping : 3S1L



Max: 10 full trays + 1 empty tray cover
PP Strapping: 3 crosswise & 1 lengthwise





QUALIFICATION PLAN SUMMARY

PCN #: NTDO-28XWRK640

**Date:
July 29, 2021**

**Qualification of MPHL as additional final test site for selected
ATSAMA5D2xx device family in 289L LFBGA (14x14x1.4mm)
package.**

Purpose: Qualification of MPHL as additional final test site for selected ATSAMA5D2xx device family in 289L LFBGA (14x14x1.4mm) package.

CCB No.: 4758

Test / Evaluation	Test Conditions / Parameters
Datalog/Bin Comparison	<ul style="list-style-type: none">• Compare test numbers, test names, test sequence bin assignments & pass/fail results• Accept if all match or justify the differences
Correlation lot report	<ul style="list-style-type: none">• Yield at each step and reject analysis between systems. 3K units are tested for each program conversion we perform.• Accept on yield match within 1%
Parametric comparison	<ul style="list-style-type: none">• 100% test at room, hot, cold temperature if applicable based on production flow.