



Product Change Notification / NTDO-09RUGQ249

Date:

21-Oct-2021

Product Category:

Microprocessors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4645 Final Notice: Qualification of MPHL as additional final test site for selected ATSAMA5D3xA device families available in 324L LFBGA (15x15x1.4mm) package.

Affected CPNs:

[NTDO-09RUGQ249_Affected_CPN_10212021.pdf](#)
[NTDO-09RUGQ249_Affected_CPN_10212021.csv](#)

Notification Text:

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 MPHL as additional final test site for selected ATSAMA5D3xA device families available in 324L LFBGA (15x15x1.4mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change
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Final Test Site		ASE-Shanghai (ASSH)	ASE-Shanghai (ASSH)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Base Quantity Multiple (BQM)	T/R	500	500	500
	Tray	126	126	126
Pin 1 Orientation		Quadrant 2	Quadrant 2	Quadrant 2
Carrier Tape		No dimensional changes*		
Cover Tape		Minor dimensional changes*		
Plastic Reel	Dimension	No dimensional changes*		
	Color	White	White	White
Tray	Dimension	No dimensional changes*		
	Color	Black	Black	Black
Packing Method		See Pre and Post Change Summary for comparison		

* See Pre and Post Change Summary for 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 First Ship Date:November 23, 2021 (date code: 2148)

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

Time Table Summary:

	September 2021					October 2021					November 2021				
Workweek	3 6	3 7	3 8	3 9	4 0	4 1	4 2	4 3	4 4	4 5	4 6	4 7	4 8	4 9	
Initial PCN Issue Date				x											
Qual Report Availability							x								
Final PCN Issue							x								

Date																					
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:September 14, 2021: Issued Initial Notification
 October 21, 2021: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on November 23, 2021.

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-09RUGQ249_Qual_Report.pdf](#)
- [PCN_NTDO-09RUGQ249_Pre and Post Change Summary.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)

ATSAMA5D31A-CU
ATSAMA5D31A-CUR
ATSAMA5D33A-CU
ATSAMA5D33A-CUR
ATSAMA5D34A-CU
ATSAMA5D34A-CUR
ATSAMA5D35A-CU
ATSAMA5D35A-CUR
ATSAMA5D36A-CU
ATSAMA5D36A-CUR
ATSAMA5D31A-CUC21
ATSAMA5D35A-CUC22
ATSAMA5D36A-CUC23
ATSAMA5D31A-CURC21
ATSAMA5D35A-CURC22
ATSAMA5D36A-CURC23

CCB 4645
Pre and Post Change Summary
PCN #: NTDO-09RUGQ249



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Qualification of MPHL as additional final test site for selected ATSAM5D3xA device families available in 324L LFBGA (15x15x1.4mm) package

Pre and Post Change Summary

Final Test Location		ASSH	MPHL
Base Quantity Multiple (BQM)	T/R	500	500
	Tray	126	126
Pin 1 Orientation		Quadrant 2	Quadrant 2

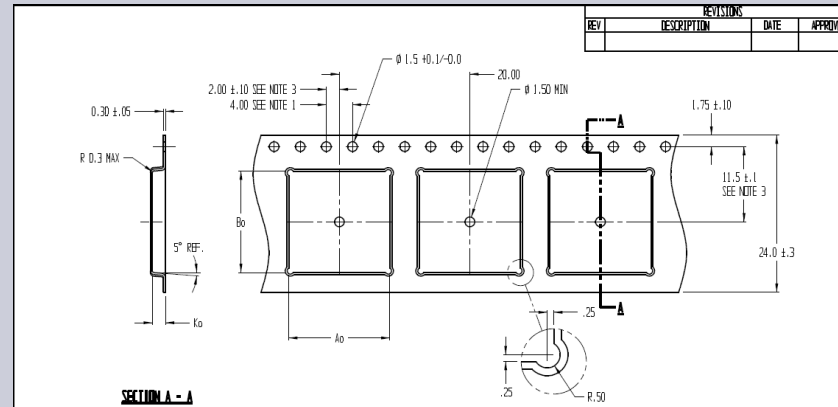
Pre and Post Change Summary

Final Test Location

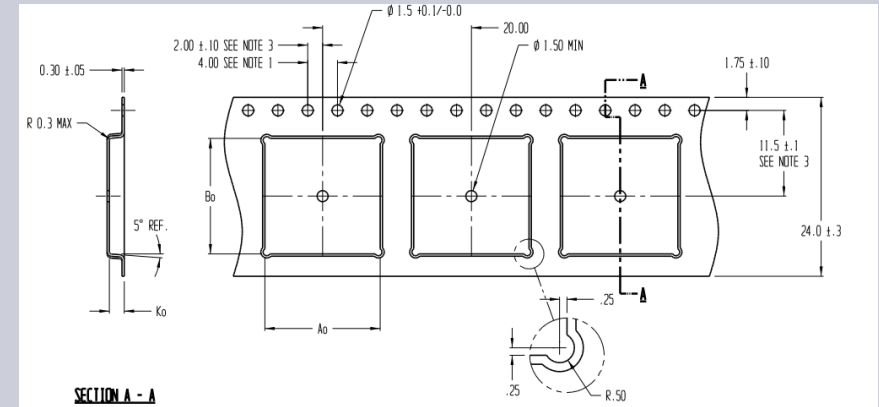
ASSH

MPHL

Carrier Tape for T/R



Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness
24	20	15.5	15.5	2.0	0.3



Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	Thickness
24	20	15.5	15.5	2.0	0.3

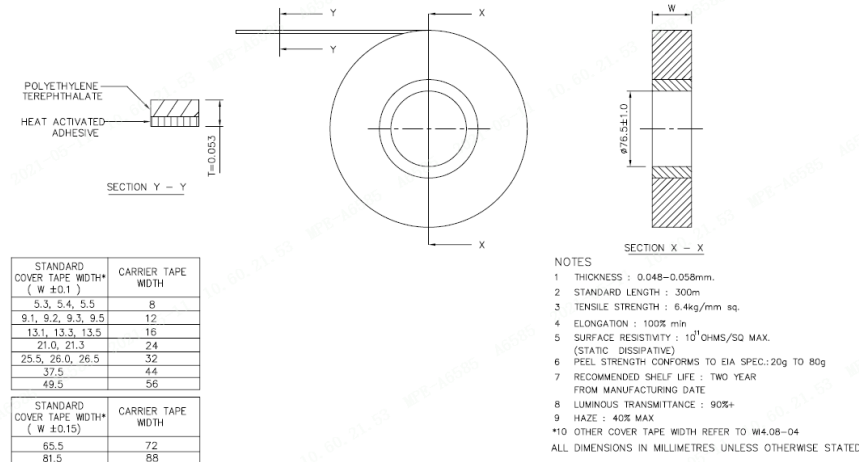
Pre and Post Change Summary

Final Test Location

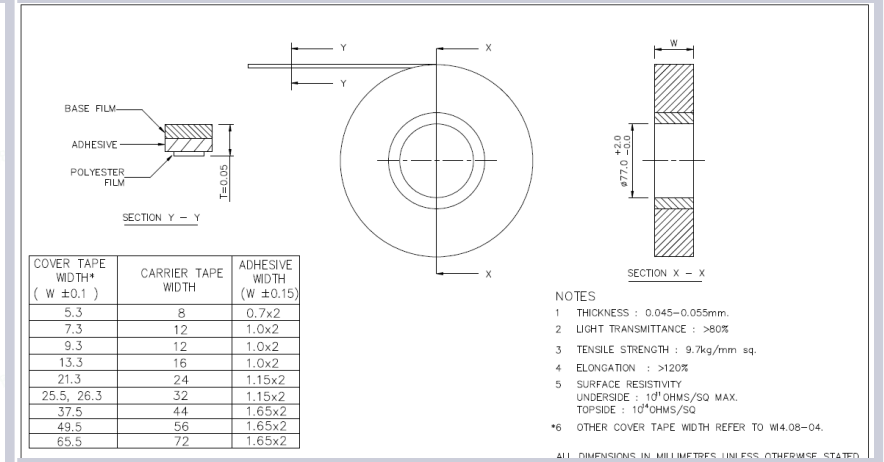
ASSH

MPHL

Cover Tape for T/R



Width W (mm.)	Thickness T (mm.)	Sealing Methodology
21.3	0.048-0.058	Heat Active Type



Width W (mm.)	Thickness T (mm.)	Sealing Methodology
21.3	0.045-0.055	Pressure Seal Activated

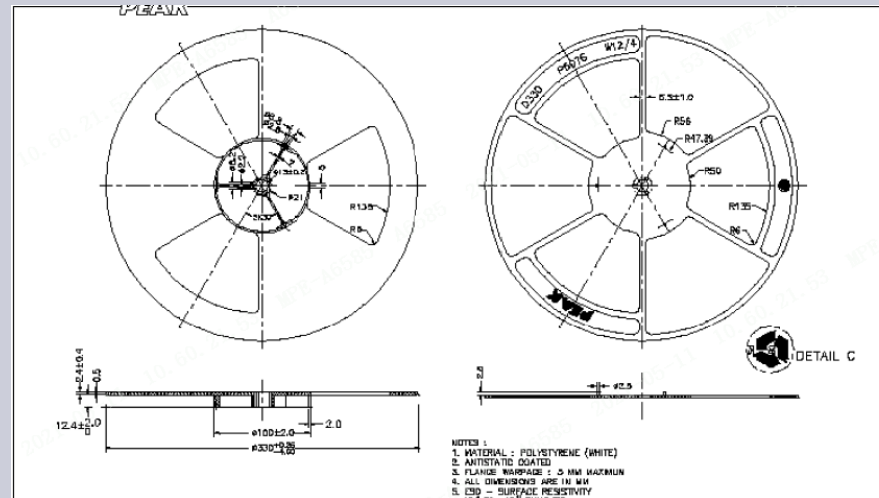
Pre and Post Change Summary

Final Test Location

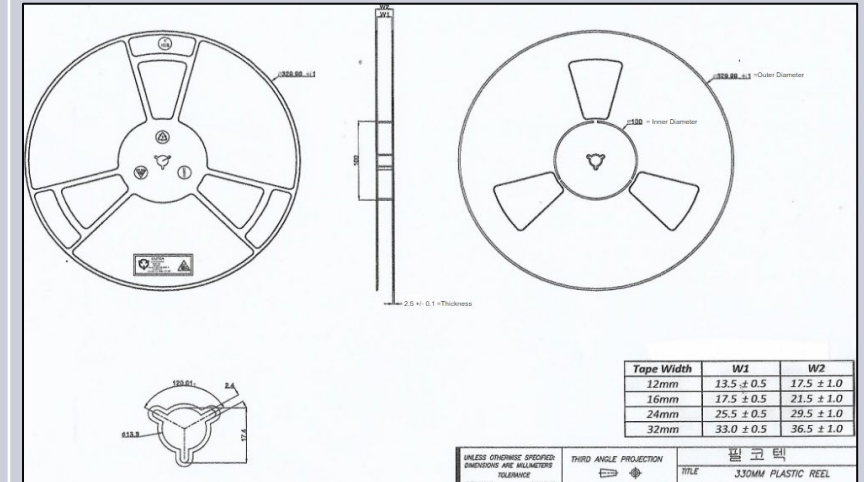
ASSH

MPHL

Plastic Reel for T/R



Width (mm)	Diameter (mm)	Hub (mm)	Color
24	330	100	White



Width (mm)	Diameter (mm)	Hub (mm)	Color
24	330	100	White

Pre and Post Change Summary

Final Test Location	ASSH	MPHL
<p>Packing Method for T/R</p>		

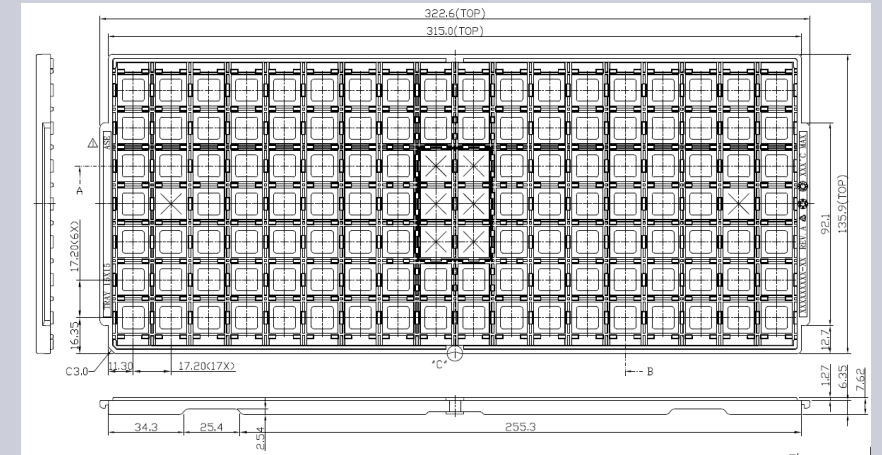
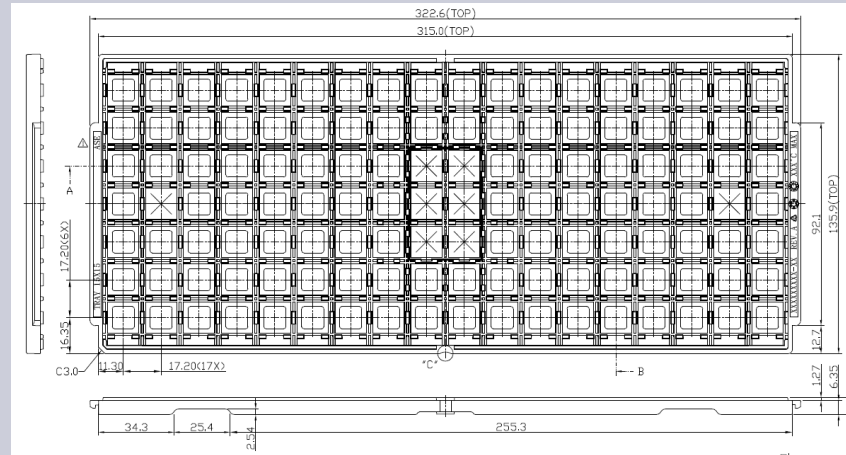
Pre and Post Change Summary

Final Test Location

ASSH

MPHL

Tray



Length – max outer (mm)	Width – max outer (mm)	Thickness – max (mm)	Color
322.6 mm	135.9 mm	7.62 mm	Black

Length – max outer (mm)	Width – max outer (mm)	Thickness – max (mm)	Color
322.6 mm	135.9 mm	7.62 mm	Black

Pre and Post Change Summary





Final Test Location

ASSH

MPHL

Packing Method for Tray



Pin 1 Orientation / Tray Bundling	Inner Box Packing
<ol style="list-style-type: none"> 1. Pin 1 Orientation – near tray chamfer 2. Tray Bundling > 10 full trays + 1 empty tray cover > PP Strapping: 3 crosswise & 1 lengthwise 	<ol style="list-style-type: none"> 4. Wrap bag with bubble pack 
<ol style="list-style-type: none"> 3. Moisture Barrier Bag Labels  	<ol style="list-style-type: none"> 5. Tray Box Packing 



QUALIFICATION REPORT SUMMARY

PCN #: NTDO-09RUGQ249

**Date:
October 12, 2021**

**Qualification of MPHL as additional final test site for selected
ATSAMA5D3xA device families available in 324L LFBGA
(15x15x1.4mm) package.**

Purpose: Qualification of MPHL as additional final test site for selected ATSAMA5D3xA device families available in 324L LFBGA (15x15x1.4mm) package.

CCB No.: 4645

Test / Evaluation	Test Conditions / Parameters	Results
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	PASSED
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%	PASSED
Parametric comparison	<ul style="list-style-type: none">• 100% test at room, hot, cold temperature if applicable based on production flow.	PASSED