



Product Change Notification - LIAL-26MGJS550

Date:

21 May 2020

Product Category:

Memory

Affected CPNs:**Notification subject:**

CCB 4145 Final Notice: Qualification of MTAI as a new final test site for selected Atmel AT21CS01 and AT21CS11 device families available in 3L SOT-23 (1.3mm) package.

Notification text:**PCN Status:**

Final notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

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 selected Atmel AT21CS01 and AT21CS11 device families available in 3L SOT-23 (1.3mm) package..

Pre Change:

Tested at ATP7 final test site

Post Change:

Tested at MTAI final test site

Pre and Post Change Summary:

	Pre Change	Post Change
Final test	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Thailand (HQ) MTAI
Base Quantity Multiple (BQM)	5000	5000
Pin Orientation	Quadrant 3	Quadrant 3
Carrier Tape Dimension	Minor dimensional changes. See pre and post change comparison	
Cover Tape	Minor dimensional changes. See pre and post change comparison	
Reel Dimension	Minor dimensional changes. See pre and post change comparison	
Packaging Process	Minor dimensional changes. See pre and post change comparison	

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying MTAI as a new final test site.

Change Implementation Status:



In Progress

Estimated First Ship Date:

June 21, 2020 (date code: 2026)

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

Time Table Summary:

	April 2020					May 2020				June 2020				
Workweek	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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:

April 08, 2020: Issued initial notification.

May 21, 2020: Issued final notification. Attached the Qualification Report. Revised the affected parts list. Provided estimated first ship date to be on June 21, 2020.

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

Attachment(s):

[PCN_LIAL-26MGJS550_Qual_Report.pdf](#)

[PCN_LIAL-26MGJS550_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)

AT21CS01-STUM10-T
AT21CS01-STUM11-T
AT21CS01-STUM12-T
AT21CS01-STUM13-T
AT21CS01-STUM14-T
AT21CS01-STUM15-T
AT21CS01-STUM16-T
AT21CS01-STUM17-T
AT21CS11-STU10-T
AT21CS01-STUMJK-T



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QUALIFICATION REPORT SUMMARY

PCN #: LIAL-26MGJS550

Date

April 30, 2020

**Qualification of MTAI as a new final test site for selected
Atmel AT21CSxx devices families available in 3L SOT-23
(1.3mm) package.**

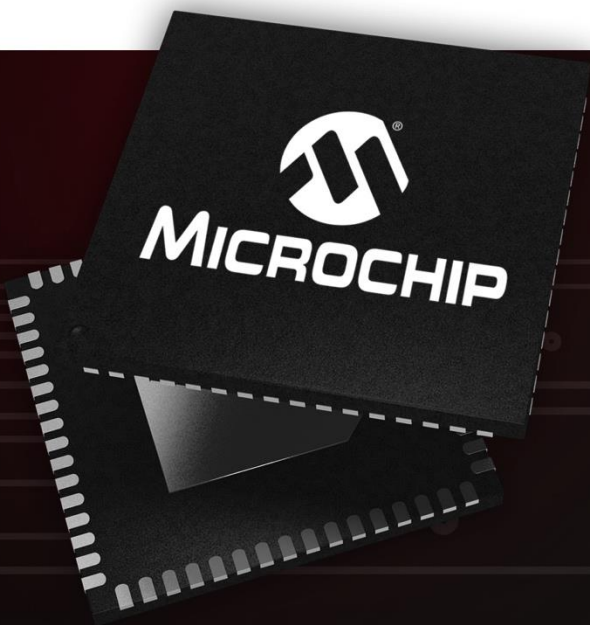
Purpose: Qualification of MTAI as a new final test site for selected Atmel AT21CSxx devices families available in 3L SOT-23 (1.3mm) package.

CCB#: 4145

Test / Evaluation/ Criteria	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 	PASS
Site by site verification	<ul style="list-style-type: none"> • Compare test numbers, test names, test sequence bin assignments & pass/fail results 	PASS
Correlation lot report	<ul style="list-style-type: none"> • Yield at each step and reject analysis between systems. Min 3K units (actual 1 wafer of 19k) are tested for each program conversion we perform. • Accept on yield match within 1% 	PASS
Unit to unit parametric correlation	<ul style="list-style-type: none"> • 33 units on both systems to be characterized and graphed vs each other & the data sheet limits 	PASS
Test stability	<ul style="list-style-type: none"> • 50 loop test performed with no datalog delays • Accept on 0 fails 	PASS
Parametric test stability verification	<ul style="list-style-type: none"> • Use Real Time Statistics software to create report of all parametric tests 	PASS



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PCN#: LIAL-26MGJS550

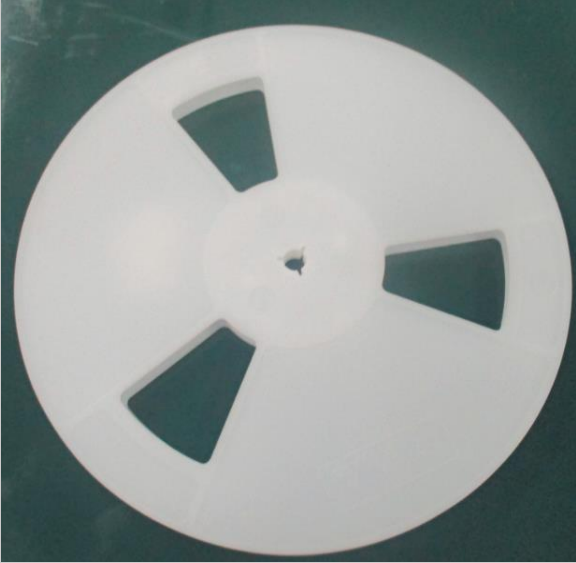

CCB 4145_ Pre and Post Changes Summary





Packing Information – Tape and Reel

	Pre-Change					Post Change				
Final Test Location	ATP7					MTAI				
Packing Media	Tape and Reel					Tape and Reel				
Base Quantity Multiple (BQM)	5000					5000				
Pin 1 Orientation	Quadrant 3					Quadrant 3				
With Desiccant and HIC?	Not Applicable					Not Applicable				
Carrier Tape	Width	Pitch	A0	B0	K0	Width	Pitch	A0	B0	K0
	12mm +/- 0.3	4mm +/- 0.1	3.21mm +/- 0.1	2.65mm +/- 0.1	1.25mm +/- 0.1	8 mm +0.3/- 0.1	4 mm +/-0.1	3.15 mm +/-0.1	2.77 mm +/-0.1	1.22 mm +/-0.1
Cover Tape	Width		Thickness			Width		Thickness		
	5.4mm		0.053mm			5.4 mm +/-0.1		0.062 mm +/-0.013		
Reel	Color		Diameter			Color		Diameter		
	White		13 inch			Dark Blue		13inch		


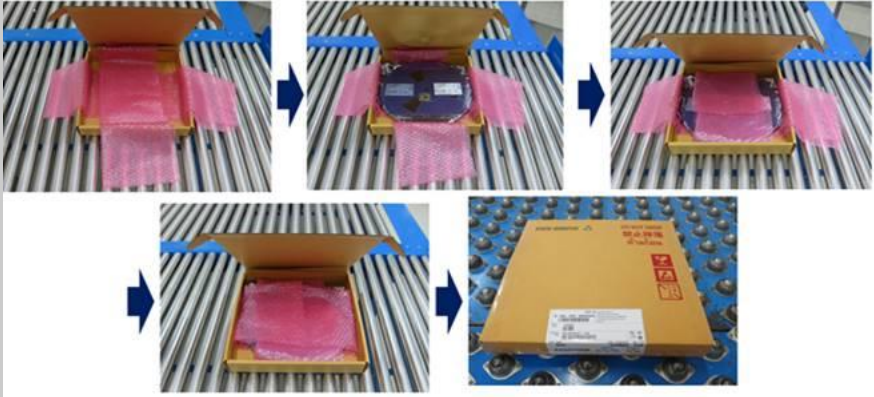
Packing Information – Tape and Reel

	Pre-Change / ATP7	Post Change / MTAI
Reel Color	 A white plastic reel with four triangular cutouts, viewed from the top against a dark green background.	 A purple plastic reel with four triangular cutouts, viewed from the top against a dark green background. Below the top view is a side view of the reel, showing its thin profile and a blue-tinted edge.

Packing Information – Tape and Reel

	Pre-Change / ATP7	Post Change / MTA1
Bags	 <p>Static Shielding Bag size Bag Size</p> <p>381 x 457 mm</p>	 <p>Static Shielding Bag size Bag Size</p> <p>370 x 420 mm</p>

Packing Information – Tape and Reel

	Pre-Change / ATP7	Post Change / MTAI																				
Boxes	 <table border="1"> <thead> <tr> <th>Dimension W x L x H (cm)</th> </tr> </thead> <tbody> <tr> <td>37x35.1x5.3</td> </tr> </tbody> </table>	Dimension W x L x H (cm)	37x35.1x5.3	 <table border="1"> <thead> <tr> <th>Carton</th> <th>Dimension W x L x H (cm)</th> <th>Number of reel per carton for Reel dia. (D) 330mm Carrier Tape Width 8 mm</th> </tr> </thead> <tbody> <tr> <td>M01-011 (TT)</td> <td>36.5x38x39.5</td> <td>18</td> </tr> <tr> <td>M01-012 (B1)</td> <td>35.5x35.5x2.8</td> <td>1</td> </tr> <tr> <td>M01-013 (B2)</td> <td>35.5x35.5x4</td> <td>3</td> </tr> <tr> <td>M01-014 (B3)</td> <td>35.5x35.5x6</td> <td>4</td> </tr> <tr> <td>M01-015 (B8)</td> <td>35.5x35.5x16.5</td> <td>10</td> </tr> </tbody> </table>	Carton	Dimension W x L x H (cm)	Number of reel per carton for Reel dia. (D) 330mm Carrier Tape Width 8 mm	M01-011 (TT)	36.5x38x39.5	18	M01-012 (B1)	35.5x35.5x2.8	1	M01-013 (B2)	35.5x35.5x4	3	M01-014 (B3)	35.5x35.5x6	4	M01-015 (B8)	35.5x35.5x16.5	10
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Inner box size	No inner box	No inner box																				