



Product Change Notification - KSRA-12PACO579

Date:

22 Jul 2019

Product Category:

8-bit Microcontrollers

Affected CPNs:**Notification subject:**

CCB 3546 Final Notice: Qualification of MTAI as an additional final test site for selected Atmel ATTINY products available in 14L SOIC 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 an additional final test site for selected Atmel ATTINY products available in 14L SOIC package.

Pre Change:

Tested at LPI and MPHL final test site.

Post Change:

Tested at LPI final test site or tested at MPHL final test site or tested at MTAI final test site.

Pre and Post Change Summary:

	Pre Change		Post Change		
Final Test Site	Lingsen Precision Industries, LTD. (LPI)	MPHL	Lingsen Precision Industries, LTD. (LPI)	MPHL	Microchip Technology Thailand (HQ) (MTAI)
Quantity per reel	3000 units	3000 units	3000 units	3000 units	3000 units
Pin Orientation	Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1
Carrier tape	Minor dimensional changes. See pre and post change comparison.				
Cover Tape	Minor dimensional changes. See pre and post change comparison.				
Reel	Minor dimensional changes. See pre and post change comparison.				



Desiccant	See pre and post change comparison.
Moisture Barrier Bag	Minor dimensional changes. See pre and post change comparison.
Carton/Pizza box	Minor dimensional changes. See pre and post change comparison.

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve manufacturability by qualifying MTAI as an additional final test site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

July 31, 2019 (date code: 1931)

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

Time Table Summary:

	September 2018					-->	July 2019				
Workweek	35	36	37	38	39		27	28	29	30	31
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:

September 14, 2018: Issued initial notification.

July 22, 2019: Issued final notification. Attached the qualification report. Provided estimated first ship date on July 31, 2019.

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_KSRA-12PACO579_PRE_AND_POST_CHANGE_CCB_3546.pdf](#)

[PCN_KSRA-12PACO579_Qual_Report.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

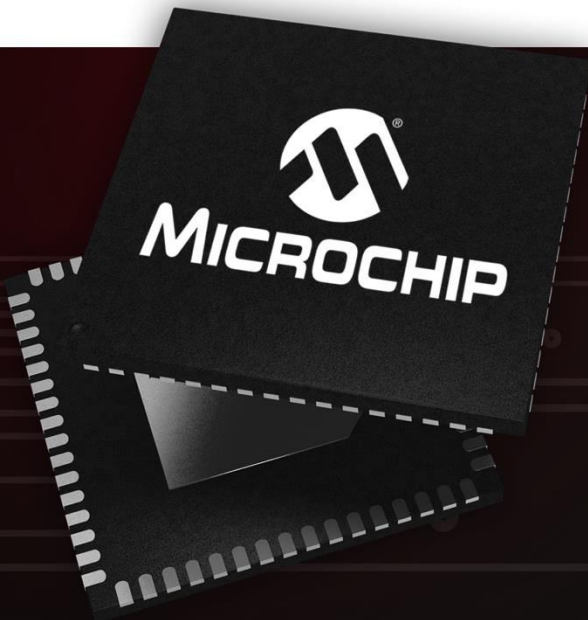
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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

ATTINY20-SSU
ATTINY20-SSUR
ATTINY20-SSURB47
ATTINY24A-SSF
ATTINY24A-SSFR
ATTINY441-SSU
ATTINY441-SSUR
ATTINY44A-SSF
ATTINY44A-SSFR
ATTINY841-SSU
ATTINY841-SSUR
ATTINY84A-SSU
ATTINY84A-SSUR



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PCN # KSRA-12PACO579
CCB 3546 Pre and Post Changes Summary

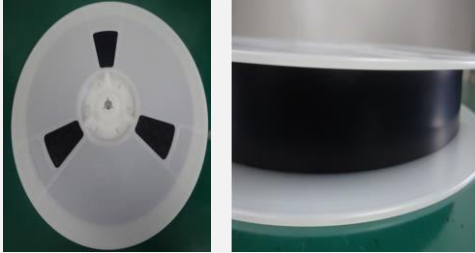
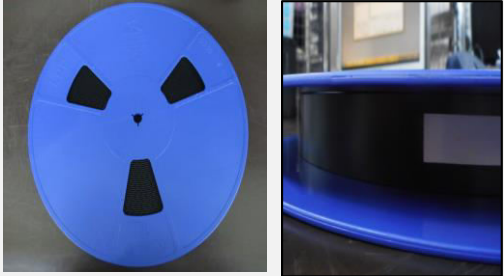
Pin 1 Orientation

PRE CHANGE		POST CHANGE
LPI	MPHL	MTAI
Quadrant 1	Quadrant 1	Quadrant 1

Carrier and Cover Tape

Material	PRE CHANGE										POST CHANGE				
	LPI					MPHL					MTAI				
Carrier Tape	Width	Pitch	Ao	Bo	Ko	Width	Pitch	Ao	Bo	Ko	Width	Pitch	Ao	Bo	Ko
	16 ±0.3 mm	8.0 ±0.1 mm	6.20 ±0.1 mm	9.00 ±0.1 mm	2.20 ±0.1 mm	16 ±0.3 mm	8.0 ±0.1 mm	6.50 ±0.1 mm	9.50 ±0.1 mm	2.10 ±0.1 mm	16 ±0.3 mm	8.0 ±0.1 mm	6.50 ±0.1 mm	9.50 ±0.1 mm	2.10 ±0.1 mm
Cover Tape	Width	Thickness	Adhesive width	Part No.	Method	Width	Thickness	Adhesive width	Part No.	Method	Width	Thickness	Adhesive width	Part No.	Method
	13.3 ±0.1 mm	0.05 ±0.005 mm	1 ±0.15 mm	AD133	Heat	13.3 ±0.1 mm	0.05 ±0.005 mm	1 ±0.15 mm	CP58	Pressure	13.3 ±0.1 mm	0.05 ±0.01 mm	-	CSL-Z7302	Heat

Reel Dimension

Material	PRE CHANGE										POST CHANGE				
	LPI					MPHL					MTAI				
Reel	Color	Diameter	Hub Dia	W1	W2	Color	Diameter	Hub Dia	W1	W2	Color	Diameter	Hub Dia	W1	W2
	White	330 ±2 mm	102 ±2mm	16.8 ±2 mm	22.4 mm	White	330 ±4 mm	101.5 ±1.5mm	16.4 ±2 mm	22.4 mm	Blue	330 ±2 mm	100 ±2mm	16.4 ±2 mm	22.4 mm
															

Desiccant

PRE CHANGE

LPI

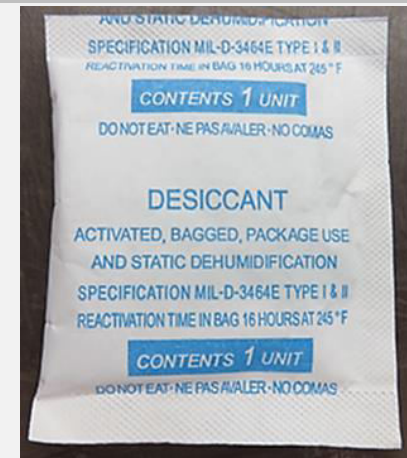


MPHL



POST CHANGE

MTAI



Moisture Barrier Bag

PRE CHANGE				POST CHANGE	
LPI		MPHL		MTAI	
Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)
440	400	457.2	406.4	420	370
					

Carton/Pizza Box

PRE CHANGE						POST CHANGE		
LPI			MPHL			MTAI		
Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)
370	351	53	354	352	53	370	351	53
								



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QUALIFICATION REPORT SUMMARY

PCN #: KSRA-12PACO579

Date
June 28, 2019

**Qualification of MTAI as an additional final test site for
selected Atmel ATTINY products available in 14L SOIC
package.**

Purpose: **Qualification of MTAI as an additional final test site for selected
Atmel ATTINY products available in 14L SOIC package.**

CCB No.: **3546**

Test / Evaluation	Test Conditions / Parameters	Results
Datalog / Bin Comparison	- Compare test numbers, test names, test limit, test sequence, bin assignments & pass/fail results. - Accept if all match or justify the differences	PASSED
Site by site verification	Verifies the channel map has the correct site assignments and tester/handler communication work correctly	PASSED
Correlation lot report	- Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform. - Accept on yield match within 1%	PASSED
Unit to unit parametric correlation	A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits	PASSED
Test stability	50 loop test performed with no datalog delays - Accept on 0 fails	PASSED
Parametric test stability verification	- Use Real Time Statistics software to create CPK report of all parametric tests - Accept on Cpk > 1.67 or explainable	PASSED