



Product Change Notification - LIAL-21SDJX488

Date:

14 Jun 2019

Product Category:

8-bit Microcontrollers

Affected CPNs:**Notification subject:**

CCB 3397 Final Notice: Qualification of MPHL as an additional final test site for selected Atmel products available in 32L VQFN 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)

Description of Change:

Qualification of MPHL as an additional final test site for selected Atmel products available in 32L VQFN package.

Pre Change:

Tested at

Post Change:

Tested at ANAC or MPHL final test site

Pre and Post Change Summary:

	Pre Change	Post Change	
Final test site	Amkor Assembly & Test (Shanghai) Co., LTD (ANAC)	Amkor Assembly & Test (Shanghai) Co., LTD (ANAC)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Package	32L VQFN	32L VQFN	32L VQFN
Base Quantity Multiple (BQM)	6000	6000	6000
Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape	Minor dimensional changes (attached pre and post change attachment)		
Plastic Reel	Clear or White	Clear or White	Clear or White
Plastic Reel Dimension	Minor dimensional changes (attached pre and post change attachment)		
Packing Method	Minor Packing changes (attached pre and post change attachment)		

Impacts to Data Sheet:

None

Change Impact:



None

Reason for Change:

To improve on-time delivery performance by qualifying MPHL as an additional final test site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

June 30, 2019 (date code: 1927)

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

Time Table Summary:

Workweek	May 2018					-->	June 2019				
	18	19	20	21	22		23	24	25	26	27
Initial PCN Issue Date					X						
Report Availability							X				
Final PCN Issue Date							X				
Estimated Implementation Date											X

Method to Identify Change:

code

Qualification Report:

Please open the attachments included with this PCN labeled as PCN_#_Qual Report.

Revision History:

May 30, 2018: Issued initial notification.

June 4, 2019: Issued final notification. Attached the qualification report. Provided to be on June 30, 2019. Updated affected CPN list to remove parts not affected by the scope.

June 14, 2019: final PCN to remove the package dimension since these have no relevance to the change.

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-21SDJX488 Qual Report.pdf](#)

[PCN LIAL-21SDJX488 PRE AND POST CHANGE CCB 3397.pdf](#)

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

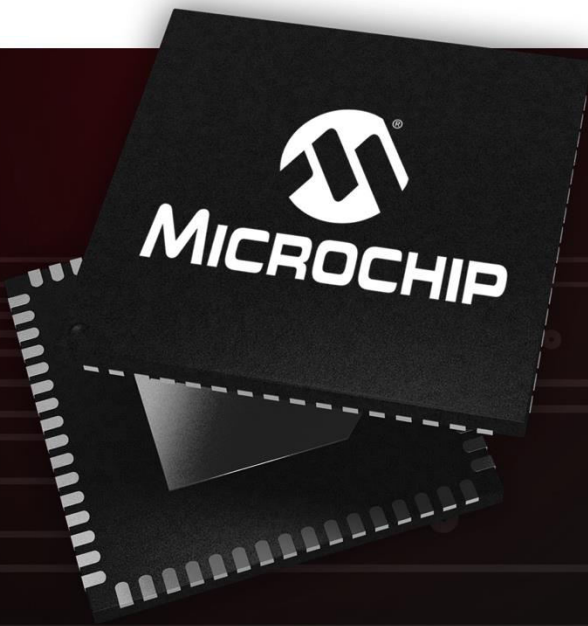
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Affected Catalog Part Numbers (CPN)

ATMEGA168A-MU
ATMEGA168A-MUR
ATMEGA168PA-MU
ATMEGA168PA-MUR
ATMEGA328P-MU
ATMEGA328P-MUR
ATMEGA48A-MU
ATMEGA48A-MUR
ATMEGA48PA-MU
ATMEGA48PA-MUR
ATMEGA88A-MU
ATMEGA88A-MUR
ATMEGA88PA-MU
ATMEGA88PA-MUR
ATTINY48-MU
ATTINY48-MUR
ATTINY861A-MU
ATTINY861A-MUR
ATTINY88-MU
ATTINY88-MUR



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PCN # LIAL-21SDJX488
CCB 3658 Pre and Post Changes Summary

Carrier Tape Dimension

Pre Change					Post Change				
Width	Pitch	A0	B0	K0	Width	Pitch	A0	B0	K0
12 mm	8 mm	5.25 mm	5.25 mm	1.1 mm	12.0 +0.3/-0.1 mm	8.0 +/-0.1 mm	5.25 +/-0.1 mm	5.25 +/-0.1 mm	1.10 +/-0.1 mm

Carrier Reel Dimension

Pre Change

Color	Diameter	Hub Dia	W1	W2
White	330	102 mm	12.8 mm	18.2 mm



Post Change

Color	Diameter	Hub Dia	W1	W2
White	330	100 mm +/- 1.5	12.4 mm	18.4 mm



Desiccant

Pre Change



Post Change



Moisture Barrier Bag

Pre Change

Length	Width
500 mm	380 mm



Post Change

Length	Width
457.2 mm	406.4 mm



Carton Box

Pre Change

Length	Width	Height
370 mm	350 mm	50 mm



Post Change

Length	Width	Height
354mm	352mm	53mm





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QUALIFICATION REPORT SUMMARY

PCN #: LIAL-21SDJX488

Date
May 28, 2019

**Qualification of MPHL as an additional final test site for
selected Atmel products available in 32L VQFN package.**

Purpose: Qualification of MPHL as an additional final test site for selected Atmel products available in 32L VQFN package.

CCB No.: 3397

Test / Evaluation	Test Conditions / Parameters	RESULT
Site by Site Verification	<ul style="list-style-type: none">Correct site location from actual vs. OI.	PASS
Datalog Comparison	<ul style="list-style-type: none">Accept if all match or justify the differences	PASS
Bin-to-Bin Comparison	<ul style="list-style-type: none">100% correlated or explainable	PASS
Single-Site Test Time	<ul style="list-style-type: none">Comparable or explainable	PASS
Test Stability	<ul style="list-style-type: none">100% pass or explainable	PASS
Parametric Test Stability	<ul style="list-style-type: none">Accept on Cpk > 1.67 or explainable	PASS
Correlation Lot Run	<ul style="list-style-type: none">Accept on yield match within 1% Bin-to-bin difference should be within 0.1%	PASS