

#### **Product Change Notification - LIAL-21SDJX488**

Date:

04 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 .xls)

#### **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 ANAC final test site

**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)	Operations (Philippines Corporation (MPHL)				
Package	32L VQFN (5x5x1mm)	32L VQFN (5x5x1mm)	32L VQFN (5x5x0.9mm)				
Base Quantity Multiple (BQM)	6000	6000	6000				
Pin 1 Orientation	Quadrant 1	Quadrant 1	Quadrant 1				
Carrier Tape	Minor dimensional changes  (see attached pre and post change attachment)						
Plastic Reel	Clear or White	Clear or White	Clear or White				
Plastic Reel Dimension	Minor dimensional changes (see attached pre and post change attachment)						
Packing Method	(see attach	Minor Packing changes ned pre and post change attachment)					



#### **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 date customers may receive pre and

post change parts.

#### **Time Table Summary:**

-	May 2018				>	June 2019					
Workweek	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											^

#### **Method to Identify Change:**

Traceability 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 estimated first ship date to be on June 30, 2019. Updated affected CPN list to remove parts not affected by the scope. 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 <u>Microchip sales office</u> with questions or concerns regarding this notification.

#### **Terms and Conditions:**

If you wish to <u>receive Microchip PCNs via email</u> please register for our PCN email service at our <u>PCN home page</u> select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

LIAL-21SDJX488 - CCB 3397 Final Notice: Qualification of MPHL as an additional final test site for selected Atmel products available in 32L VQFN package.

#### 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

Date: Tuesday, June 04, 2019





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

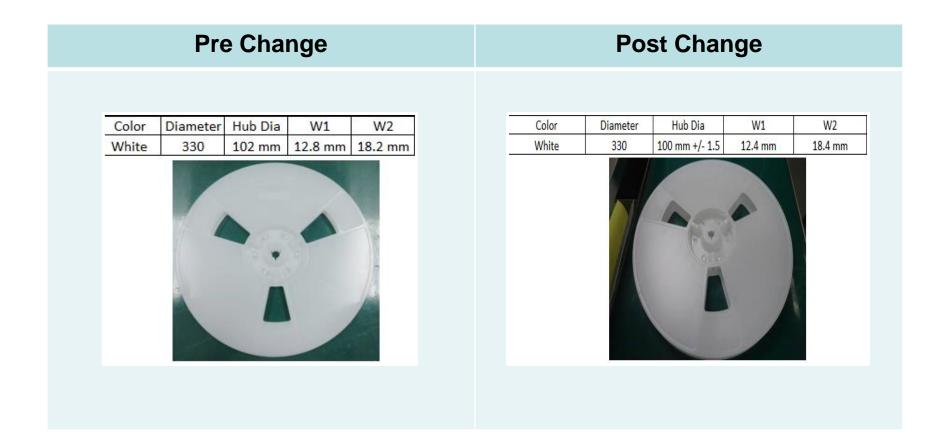


# **Carrier Tape Dimension**

Pre Change			Post Change						
Width	Pitch	A0	В0	K0	Width	Pitch	A0	В0	КО
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**





## **Desiccant**

### **Pre Change Post Change** CLAY DESICCANT REACTIVATION TIME 10 HOURS AT \$45\*F DEBCCANT, ACTIVATED, BAGGED, FOR PACKAGING USE AND STATIC DEHUMIDIFICATION 1 UNIT SPECIFICATION MIL-D-3464 TYPE I & II DO NOT EAT DOU YEE ENTERPRISES PTE LTD TEL: (05) 0444-2078: FAX: (05) 6743 7172

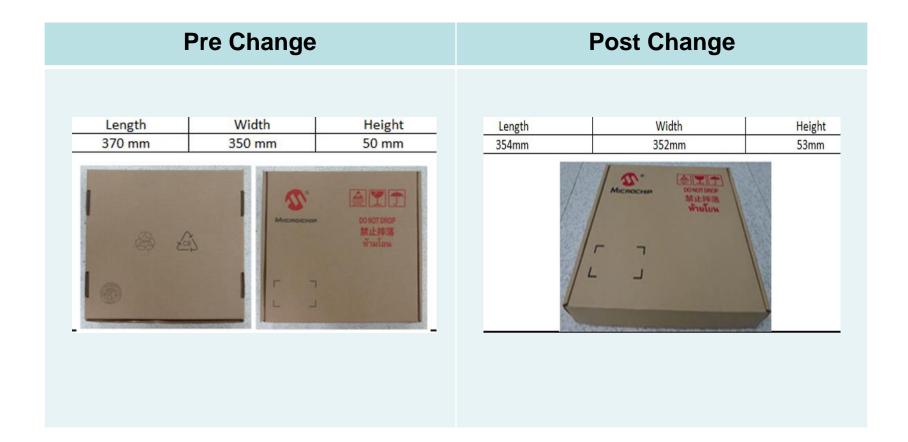


# **Moisture Barrier Bag**





### **Carton Box**





#### **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	Correct site location from actual vs. OI.	PASS
Datalog Comparison	Accept if all match or justify the differences	PASS
Bin-to-Bin Comparison	100% correlated or explainable	PASS
Single-Site Test Time	Comparable or explainable	PASS
Test Stability	100% pass or explainable	PASS
Parametric Test Stability	Accept on Cpk > 1.67 or explainable	PASS
Correlation Lot Run	Accept on yield match within 1% Bin-to-bin difference should be within 0.1%	PASS