



Product Change Notification / ALAN-20ESKQ801

Date:

12-Oct-2022

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3397.006 Final Notice: Qualification of MPHL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

Affected CPNs:

[ALAN-20ESKQ801_Affected_CPN_10122022.pdf](#)
[ALAN-20ESKQ801_Affected_CPN_10122022.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 an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change

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 22, 2022: Issued initial notification.

October 12, 2022: Issued final notification. Attached the Qualification Report. Added Cover tape information in the pre and post change table and comparison file. Provided estimated first ship date to be on November 14, 2022.

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

Attachments:

[PCN_ALAN-20ESKQ801_Pre and Post_Change_Summary.pdf](#)

[PCN_ALAN-20ESKQ801_Qual_Report.pdf](#)

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

Terms and Conditions:

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

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.

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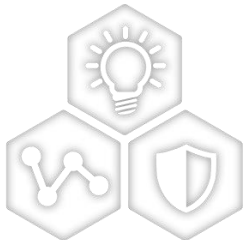
Affected Catalog Part Numbers(CPN)

ATMEGA88PB-MU
ATMEGA48PB-MU
ATMEGA88PB-MN
ATMEGA48PB-MN
ATMEGA88PB-MNR
ATMEGA48PB-MNR
ATMEGA88PB-MUR
ATMEGA48PB-MUR

CCB 3397.006
Pre and Post Change Summary
PCN# ALAN-20ESKQ801



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

Tape and Reel

Plant	BQM	Pin1
ASE9	6000 per reel	Quadrant 2
MPHL	6000 per reel	Quadrant 2



Carrier Tape

Plant	Width	Pitch	A0	B0	K0
ASE9	12 mm	8 mm	5.25 mm	5.25 mm	1.1 mm
MPHL	12 mm	8 mm	5.25 mm	5.25 mm	1.1 mm

Cover Tape

Plant	Width	Color	Sealing Process
ASE9	9.2 mm	Clear White	Heat Seal
MPHL	9.3 mm	Clear White	Pressure Seal

Plastic Reel

ASE9	MPHL
	

Plant	Color	Diameter	Hub Dia	W1	W2
ASE9	White	330	102 mm	4.4 mm - 8.4 mm	7.1 mm - 11.1 mm
MPHL	White	330	100 mm +/- 1.5	12.4 mm	18.4 mm

TNR - Moisture Barrier Bag

ASE9	MPHL
	

Plant	Length	Width
ASE9	495 mm	430 mm
MPHL	457 mm	406 mm

TNR - Box

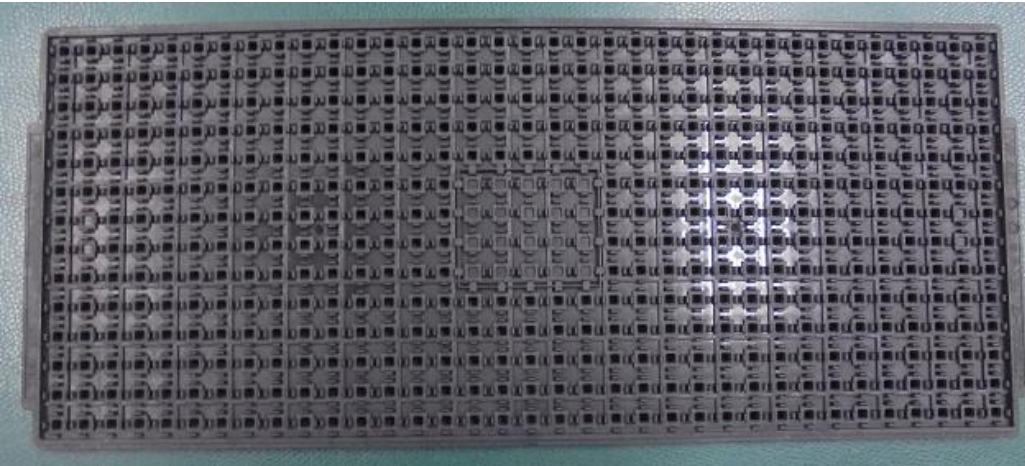


ASE9	MPHL
	

Plant	Length	Width	Height
ASE9	370 mm	351 mm	53 mm
MPHL	375 mm	352 mm	53 mm

Tray


Plant	BQM	Pin1
ASE9	490 per Tray	Near Tray Chamfer
MPHL	490 per Tray	Near Tray Chamfer

Tray Bundling

ASE9	MPHL
 	



Plant	Tray Quantity
ASE9	10 + 1 cover tray
MPHL	10 + 1 cover tray

TRAY - Moisture Shielding Bag

ASE9	MPHL
	

Plant	Shielding Bag
ASE9	Static Shielding Bag (SSB)
MPHL	Static Shielding Bag (SSB)

TRAY - Inner Box

ASE9	MPHL
	

Plant	Length	Width	Height
ASE9	371.5 mm	162 mm	88 mm
MPHL	371 mm	162 mm	88 mm



QUALIFICATION PLAN SUMMARY

PCN# ALAN-20ESKQ801

**Date:
October 7, 2022**

**Qualification of MPHL as an additional test location
for selected ATMEGA88PB and ATMEGA48PB device
families available in 32L VQFN (5x5x0.9mm) package.**

Purpose: Qualification of MPHL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

CCB No.: 3397.006

Test / Evaluation	Test Conditions / Parameters	Result
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">- Verifies the channel map has the correct site assignments and tester/handler communications work correctly	Pass
Correlation lot report	<ul style="list-style-type: none">- Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform.- Accept on yield match within 0.1%	Pass
Unit to unit parametric correlation	<ul style="list-style-type: none">- A full assembly strip characterized on both systems 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	Pass