

Product Change Notification / LIAL-10HDQI000

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15-Jul-2022

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3104.005 Final Notice: Qualification of MPHL as a new final test site for selected ATMEGA48xx, ATMEGA88xx and ATMEGA168xx device families available in 32L TQFP (7x7x1mm) package.

Affected CPNs:

LIAL-10HDQI000_Affected_CPN_07152022.pdf LIAL-10HDQI000_Affected_CPN_07152022.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 a new final test site for selected ATMEGA48xx, ATMEGA88xx and ATMEGA168xx device families available in 32L TQFP (7x7x1mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change
Final Tast Site	Amkor Technology	Microchip Technology
Final Test Site	Philippine (P1/P2), INC.	Operations Corporation

		(ANAP)	(MPHL)			
Base Quantity	Tray	250	250			
Multiple (BQM)	Tape and Reel	2000	2000			
	Tray	Near tray chamfer	Near tray chamfer			
Pin1 Orientation	Tape and Reel	Q1	Q1			
		With minor dimensional changes				
Carrier T	ape	See attached Pre and Post Change Summary for comparison.				
	Color	White	White			
		With minor dimensional changes				
Reel Dimension		See attached Pre and Post Change Summary for comparison.				
Packing Me	-thod		ost Change Summary for			
Tueking ivi	20.100	comparison.				

Impacts to Data Sheet:None

Change ImpactNone

Reason for Change:To improve manufacturability by qualifying MPHL as a new final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:July 18, 2022 (date code: 2230)

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

Time Table Summary:

		Mai	rch 2	022		>		Jur	ne 20)22			Ju	ly 20	22	
Workweek	1	1	1	1	1		2	2	2	2	2	28	29	30	31	32
VVOIKWEEK	0	1	2	3	4		3	4	5	6	7	20	29	3	31	ا عد
Initial PCN Issue				v												
Date				^												
Qual Report								Х								
Availability								^								

Final PCN Issue Date				Х				
Estimated								
Implementation							Х	
Date								

Method to Identify Change:Traceability code

Qualification Report:Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History: March 21, 2022: Issued initial notification.

June 10, 2022: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on July 18, 2022.

July 15, 2022: Re-issued the final notification to remove the MSL information.

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

Attachments:

PCN_LIAL-10HDQI000_Pre and Post Change Summary.pdf PCN_LIAL-10HDQI000_Qual Report.pdf

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

Terms and Conditions:

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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.



QUALIFICATION REPORT SUMMARY

PCN #: LIAL-10HDQI000

Date June 2, 2022

Qualification of MPHL as a new final test site for selected ATMEGA48xx, ATMEGA88xx and ATMEGA168xx device families available in 32L TQFP (7x7x1mm) package.

Purpose: Qualification of MPHL as a new final test site for selected ATMEGA48xx,

ATMEGA88xx and ATMEGA168xx device families available in 32L TQFP (7x7x1mm)

package.

CCB No.: 3104.005

Test / Evaluation	Test Conditions / Parameters	RESULT
Datalog/Bin Comparison	 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	 Verifies the channel map has the correct site assignments and tester/handler communications work correctly 	PASS
Correlation lot report	 Yield at each step and reject analysis between systems. 3K units are tested as lot correlation Accept on yield match within 0.1% 	PASS
Test stability	 50 loop test performed with no datalog delays Accept on 0 fails 	PASS
Parametric test stability verification	 Use Real Time Statistics software to create CPK report of all parametric tests Accept on Cpk > 1.67 or explainable 	PASS

CCB 3104.005 Pre and Post Change Summary PCN#: LIAL-10HDQI000



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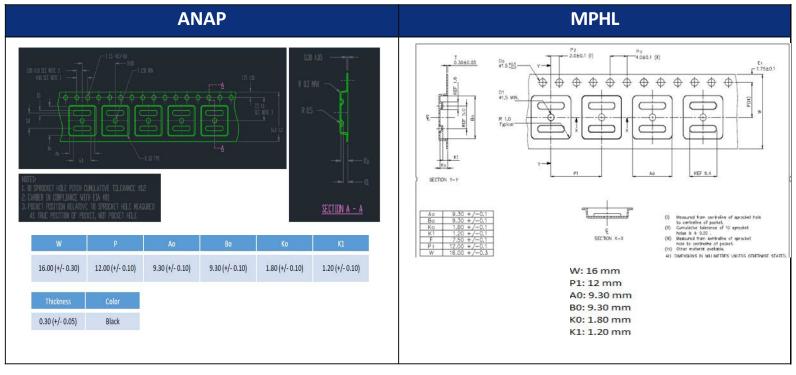


Tape and Reel - BQM and Pin 1 Orientation

	ANAP	MPHL
Base Quantity Multiple (BQM)	2000	2000
Pin 1 orientation	Quadrant 1	Quadrant 1



Tape and Reel - Carrier Tape





Tape and Reel – Plastic Reel





Tape and Reel - Packaging

Final Test Site	ANAP	MPHL
Desiccant	Sorb Clay Sorb Clay According to the control of	A CHANGE BY THE CONTROL OF THE CONTR
Antistatic Bag		Acceptance of the second secon
Boxes	Microcrae O Not face ***********************************	STATIC SENSITIVE A STATIC

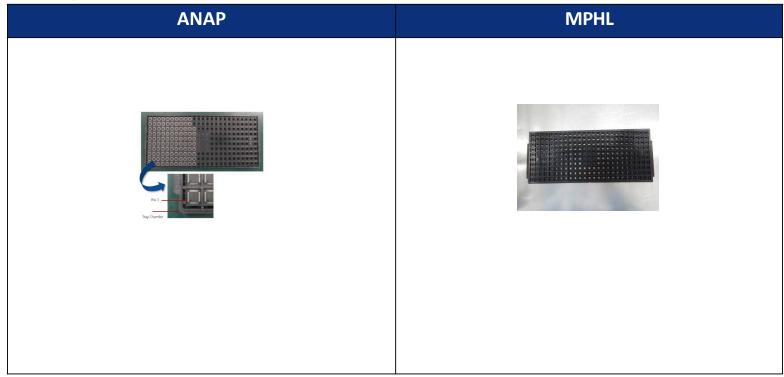


Tray - BQM and Pin 1 Orientation

	ANAP	MPHL
Base Quantity Multiple (BQM)	250	250
Pin 1 orientation	Pin1 near Tray Chamfer	Pin1 near Tray Chamfer



Tray





Tray – Packaging

Final Test Site	ANAP	MPHL
Desiccant	Sorb	ATAWAMOS Anti-control of the control of the contro
Antistatic Bag		
Boxes	MICROCHIP DO NOT 080P 禁止持落 扩刊证明	STATIC SENSITIVE AND STATIC SENSITIVE SENSITI



LIAL-10HDQI000 - CCB: ATMEGA88xx and ATMEGA168xx device families available in 32L TQFP (7x7x1m

Affected Catalog Part Numbers(CPN)

ATMEGA48V-10AU

ATMEGA48-20AU

ATMEGA48V-10AUR

ATMEGA48V-10AURA4

ATMEGA48-20AUR

ATMEGA88V-10AU

ATMEGA88-20AU

ATMEGA88V-10AUR

ATMEGA88-20AUR

ATMEGA168-20AU

ATMEGA168V-10AU

ATMEGA168-20AUR

ATMEGA168V-10AUR

ATMEGA168-20AURA0