

Product Change Notification / LIAL-10HDQI000

Date:

10-Jun-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_06102022.pdf LIAL-10HDQI000_Affected_CPN_06102022.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 Test Cite	Amkor Technology	Microchip Technology
Final Test Site	Philippine (P1/P2), INC.	Operations Corporation

1		(ANAP)	(MPHL)			
Base Quantity	Tray	250	250			
Multiple (BQM)	Tape and Reel	2000	2000			
Moisture Sensit (MSL)		3	1			
	Tray	Near tray chamfer	Near tray chamfer			
Pin1 Orientation	Tape and Reel	Q1	Q1			
		With minor dimensional changes				
Carrier T	аре		Post Change Summary for parison.			
	Color	White	White			
Reel	Dimension	With minor dimensional changes See attached Pre and Post Change Summary for comparison.				
Packing Me	ethod	See attached Pre and Post Change Summary for 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:

		Ma	rch 2	022	_	>		Jur	ne 20)22			Ju	ly 20	22	
Morteneok	1	1	1	1	1		2	2	2	2	2	20	20	30	21	22
Workweek	0	1	2	3	4		3	4	5	6	7	28	29	30	51	32
Initial PCN Issue				v												
Date				X												

Qual Report Availability				x				
Final PCN Issue Date				х				
Estimated Implementation Date							х	

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.

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:

If you wish to <u>receive Microchip PCNs via email</u> 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 <u>change your PCN profile, 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-10HDQI000 - 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 Catalog Part Numbers (CPN)

ATMEGA48V-10AU ATMEGA48-20AU ATMEGA48V-10AUR ATMEGA48V-10AURA4 ATMEGA48-20AUR ATMEGA88V-10AU ATMEGA88-20AU ATMEGA88-20AUR ATMEGA168-20AUR ATMEGA168-20AUR ATMEGA168V-10AUR ATMEGA168V-10AUR

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

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Tape and Reel - BQM and Pin 1 Orientation

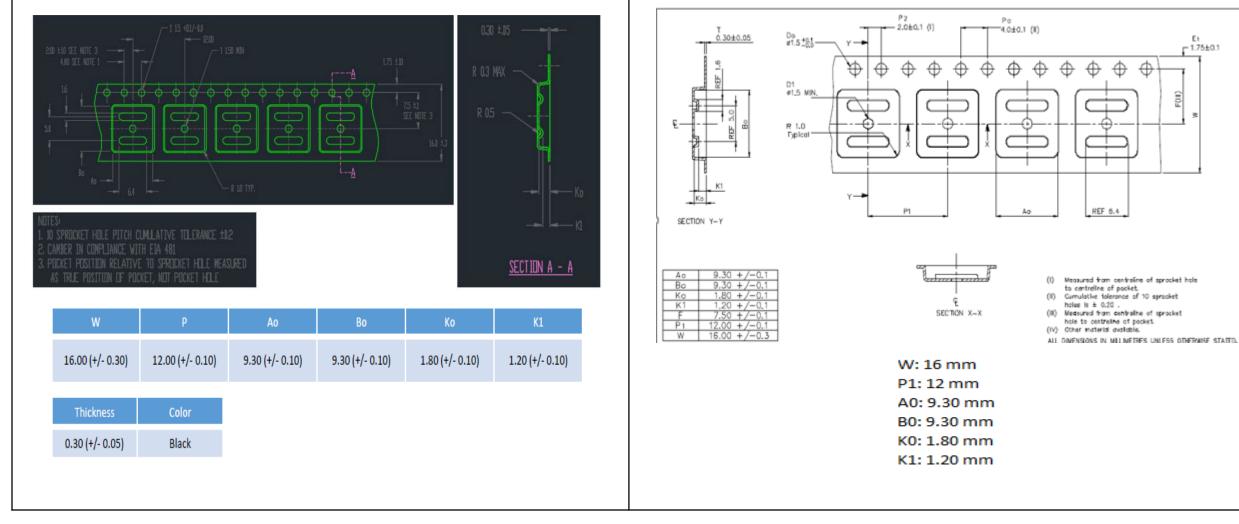
	ANAP	MPHL
Base Quantity Multiple (BQM)	2000	2000
Pin 1 orientation	Quadrant 1	Quadrant 1



Tape and Reel - Carrier Tape

ANAP

MPHL





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Tape and Reel – Plastic Reel

ANAP

MPHL



Width	Outer Diameter	Inner Diameter
16	330.2 (+/- 2.0)	100

Color: White



Color: White
D: 13"
Hub: 4"
W1: 17.5 mm
W2: 21.5 mm



Tape and Reel – Packaging

Final Test Site	ANAP	MPHL
Desiccant		
Antistatic Bag		
Boxes	ТСКОСНИР МІСКОСНИР МІСКОСНИР 第上時落 所加省地	「AREL 調査」 「AREL 調査」 加工デアンズ のNUT DROP 新止算算 がINIERA STATIC SENSITIVE STATIC S

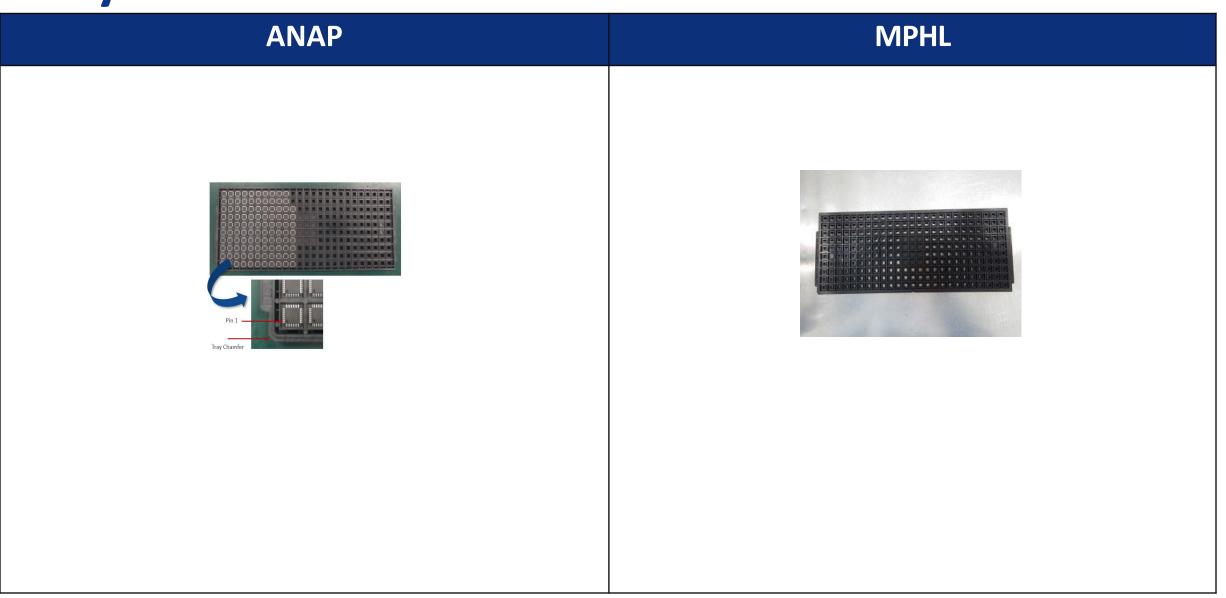


Tray - BQM and Pin 1 Orientation

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









Tray – Packaging

Final Test Site	ANAP	MPHL
Desiccant		
Antistatic Bag		
Boxes		





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 delaysAccept 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