

Product Change Notification / LIAL-10HDQI000

21-Mar-2022

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3104.005 Initial 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_03212022.pdf LIAL-10HDQI000_Affected_CPN_03212022.csv

Notification Text:

PCN Status:Initial 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 Took Cite	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	
Moisture Sensitivity Level (MSL)		3	1	
	Tray	Near tray chamfer	Near tray chamfer	
Pin1 Orientation	Tape and Reel	Q1	Q1	
		With minor dimensional changes		
Carrier Tape		See attached Pre and Post Change Summary for comparison.		
	Color	White	White	
Reel Dimension Se		With minor dimensional changes See attached Pre and Post Change Summary for comparison.		
Packing Method		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 Qualification Completion Date: March 2022

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

March 2022	
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\A/aulal.	1	1	1	1	1
Workweek	0	1	2	3	4
Initial PCN Issue				,	
Date				Х	
Qual Report					
Availability					Х
Final PCN Issue					.,
Date					Х

Method to Identify Change: Traceability code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN # Qual Plan.

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

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_Qual Plan.pdf PCN_LIAL-10HDQI000 Pre and Post Change Summary.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 <u>PCN</u> home page 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, 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 Initial 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

ATMEGA88V-10AUR

ATMEGA88-20AUR

ATMEGA168-20AU

ATMEGA168V-10AU

ATMEGA168-20AUR

ATMEGA168V-10AUR

ATMEGA168-20AURA0

Date: Sunday, March 20, 2022

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



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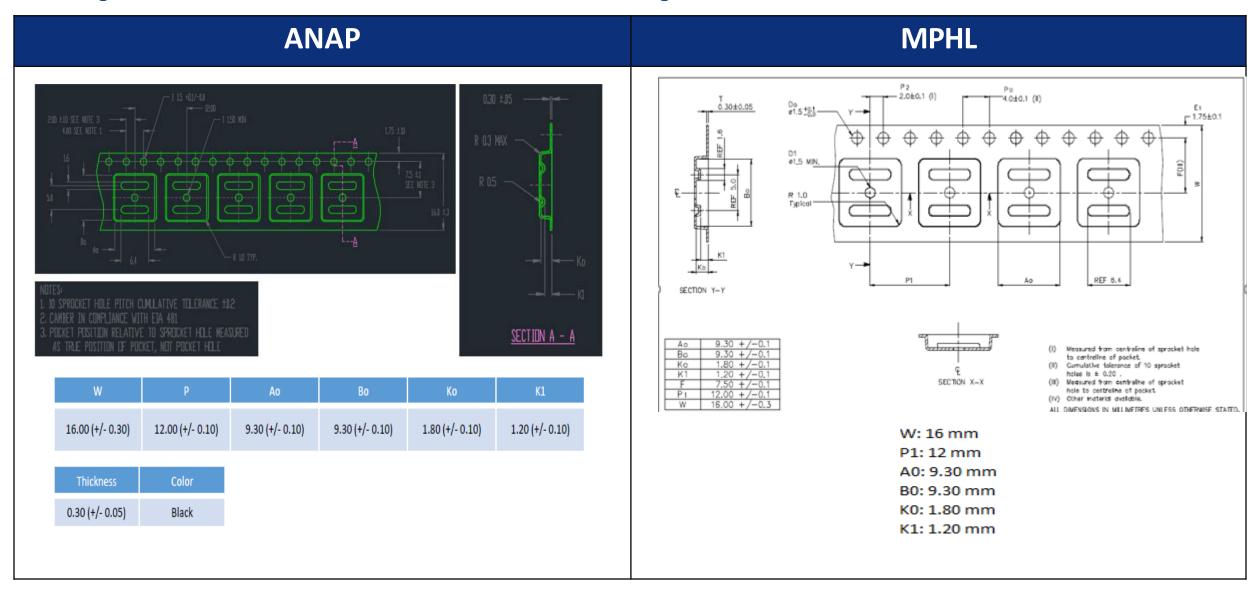


Tape and Reel - BQM and Pin 1 Orientation

	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

ANAP MPHL Width **Outer Diameter Inner Diameter** Color: White D: 13" 16 330.2 (+/- 2.0) 100 Hub: 4" W1: 17.5 mm Color: White W2: 21.5 mm



Tape and Reel - Packaging

Final Test Site	ANAP	MPHL
Desiccant	SOPIS SOPIS MICHAEL STATE OF THE STATE OF	SOLUPAKW SOLUPAKW PATRICKO STATE OF THE ST
Antistatic Bag		COLUMN TO THE PARTY OF THE PART
Boxes	MICROCHIP DO NOTOROP 禁止掉落 YNAI BH	STATIC SENSITIVE 企 ML共享等 YNISH 37.0 x 38.0 x 11.0 CM.

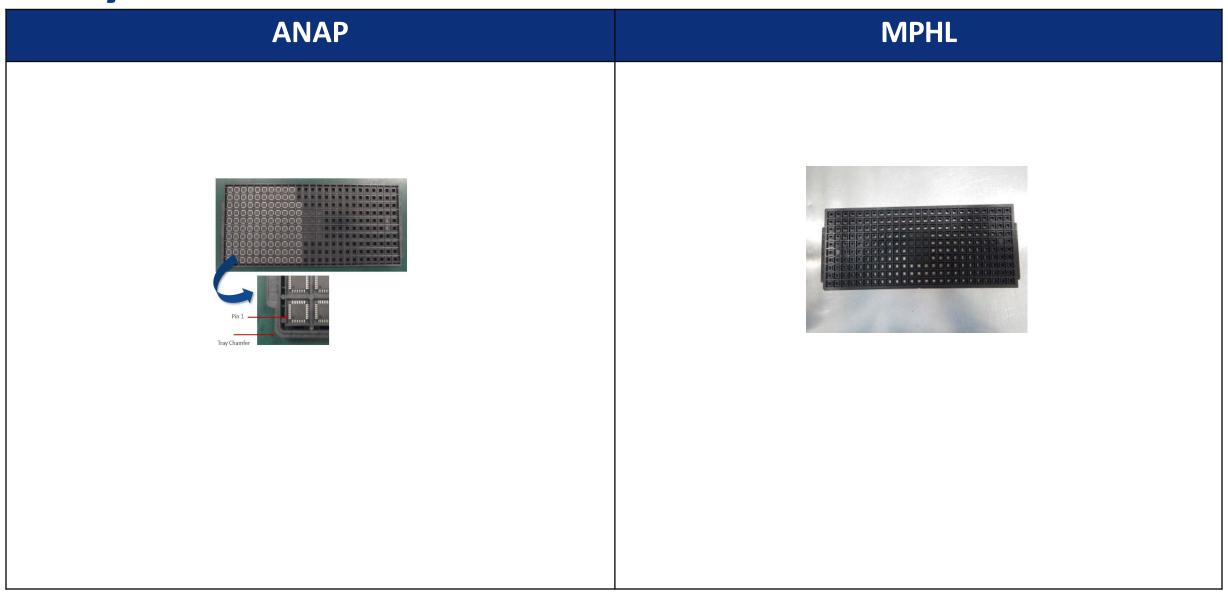


Tray - BQM and Pin 1 Orientation

	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	SOFE MANAGEMENT OF STREET	SOUTHANK INTERNAL TO THE PROPERTY OF THE PROPE
Antistatic Bag		
Boxes	MICROCHIP DO NOT DROP 禁止摔落 游飞和包裹	STATIC SENSITIVE DO NOT 5000 競比特殊





QUALIFICATION PLAN SUMMARY

PCN #: LIAL-10HDQI000

Date February 17, 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
Datalog/Bin Comparison	 Compare test numbers, test names, test sequence bin assignments & pass/fail results Accept if all match or justify the differences
Site by Site verification	Verifies the channel map has the correct site assignments and tester/handler communications work correctly
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%
Test stability	 50 loop test performed with no datalog delays Accept on 0 fails
Parametric test stability verification	 Use Real Time Statistics software to create CPK report of all parametric tests Accept on Cpk > 1.67 or explainable