



Product Change Notification / MAAN-24MZCK984

Date:

03-Jun-2024

Product Category:

8-Bit Microcontrollers, Capacitive Touch Sensors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6913 Final Notice: Qualification of MPHL as new final test site for AT42QT2120-SU, AT42QT2120-SUR, AT89S2051-24SU, ATTINY26L-8SURA2, AT89C4051-24SU, AT89C4051-12SU, AT89C4051-24SUR, AT89C4051-12SUR, ATTINY4313-SU, ATTINY4313-SUR and AT89LP4052-20SU catalog part numbers (CPN) available in 20L SOIC (0.300in) package.

Affected CPNs:

[MAAN-24MZCK984_Affected_CPN_06032024.pdf](#)

[MAAN-24MZCK984_Affected_CPN_06032024.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 new final test site for AT42QT2120-SU, AT42QT2120-SUR, AT89S2051-24SU, ATTINY26L-8SURA2, AT89C4051-24SU, AT89C4051-12SU, AT89C4051-24SUR, AT89C4051-12SUR, ATTINY4313-SU, ATTINY4313-SUR and AT89LP4052-20SU catalog part numbers (CPN) available in 20L SOIC (0.300in) package.

Pre and Post Change Summary:

		Pre Change	Post Change
Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Base Quantity Multiple (BQM)	Tape and Reel	1000	1000
	Tube	37	37
Pin1 Orientation	Tape and Reel	Quadrant 1	Quadrant 1
	Tube	Pin# 1 Toward Black stopper or pin	Pin# 1 Toward White stopper or pin
		See Pre and Post Change for comparison.	
Carrier Tape		No dimensional change. See Pre and Post change summary for comparison.	
Cover Tape		With minor dimensional changes. See Pre and Post change summary for comparison.	
Plastic Reel	Color	White	White
	Dimension	With minor dimensional changes. See Pre and Post change summary for comparison.	
Packing Method		See Pre and Post change summary for comparison.	

Impacts to Data Sheet:None

Change ImpactNone

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

Change Implementation Status:In Progress

Estimated First Ship Date:August 5, 2024 (date code: 2432)

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

Time Table Summary:

	April 2024					>	June 2024					>	August 2024				
Workweek	14	15	16	17	18		23	24	24	26	27		31	32	33	34	35

Initial PCN Issue Date		x															
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:April 4, 2024: Issued initial notification.
June 3, 2024: Issued final notification. Attached the Qualification Report. Updated the Pre and Post Change Summary to correct the Cover tape thickness tolerance for MPHL. Provided estimated first ship date to be on August 5, 2024.

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

Attachments:

[PCN_MAAN-24MZCK984_Qual Report.pdf](#)
[PCN_MAAN-24MZCK984_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 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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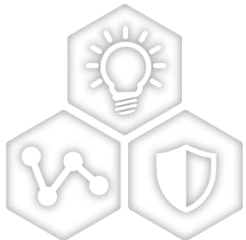
Affected Catalog Part Numbers (CPN)

- AT42QT2120-SU
- AT42QT2120-SUR
- AT89S2051-24SU
- ATTINY26L-8SURA2
- AT89C4051-24SU
- AT89C4051-12SU
- AT89C4051-24SUR
- AT89C4051-12SUR
- ATTINY4313-SU
- ATTINY4313-SUR
- AT89LP4052-20SU

CCB 6913
Pre and Post Change Summary
PCN #:MAAN-24MZCK984



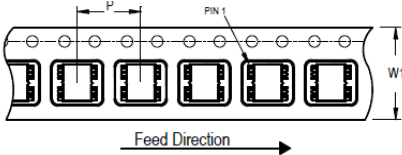
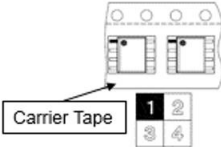
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Pre and Post Change Summary

Tape and Reel

Test Site	Pin 1 Orientation	Base Quantity Multiple (BQM)
LPI	 Quadrant 1	1000
MPHL	 Quadrant 1	1000

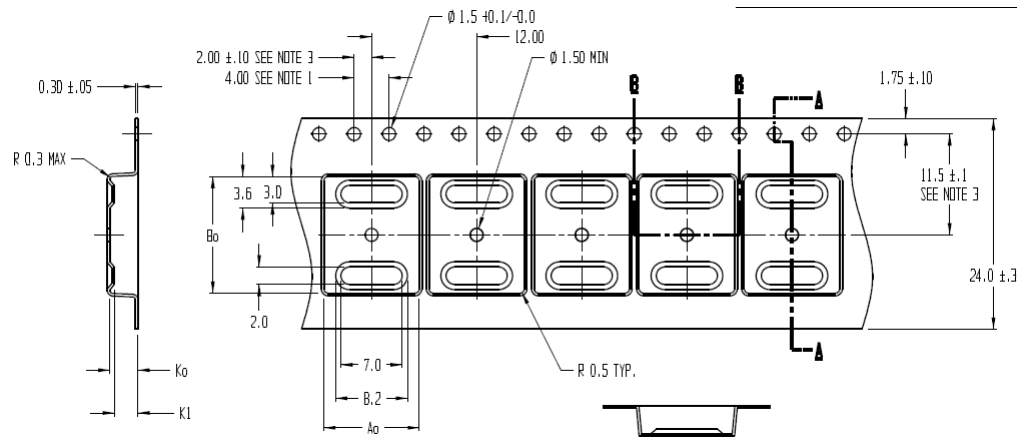
Pre and Post Change Summary

Tube

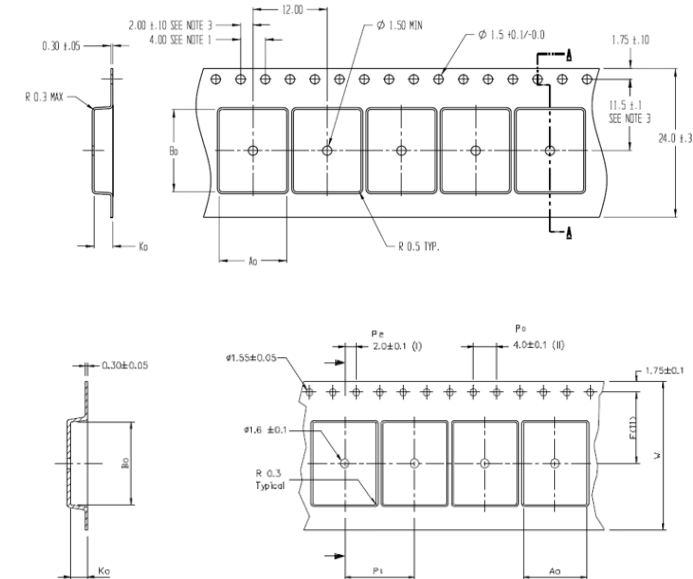
Test Site	Pin 1 Orientation	Base Quantity Multiple (BQM)
LPI	Pin# 1 Toward Black stopper or pin	37
MPHL	Pin# 1 Toward White stopper or pin	37

Pre and Post Change Summary - Carrier Tape – T/R

LPI



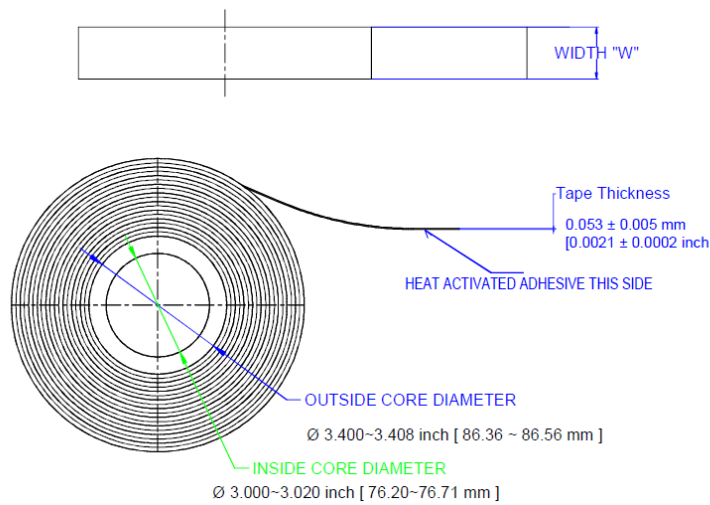
MPHL



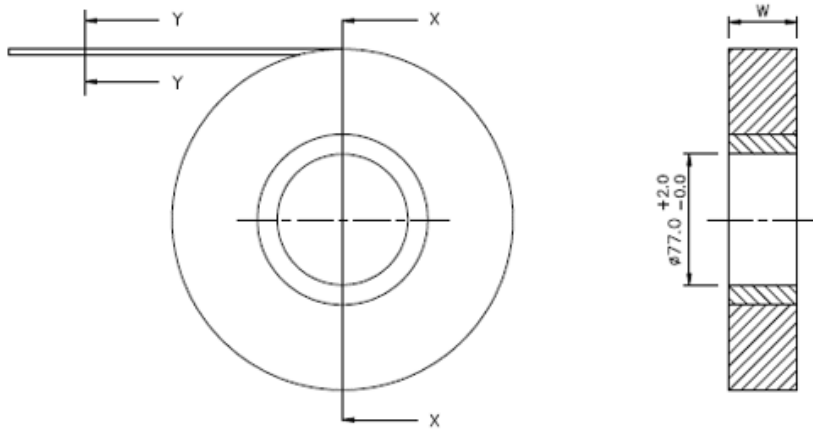
Plant	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)
LPI	24.0 ± 0.3	12.0	10.90	13.30	3.20
MPHL	24.0	12.0	10.90	13.30	3.00

Pre and Post Change Summary – Cover Tape – T/R

LPI





MPHL



Plant	Width (mm)	Thickness (mm)	Sealing Method
LPI	21.0 ± 0.1	0.053±0.005	Heat Seal
MPHL	21.3 ± 0.1	0.05±0.005	Pressure Seal

Pre and Post Change Summary - Plastic Reel – T/R

LPI	MPHL
	

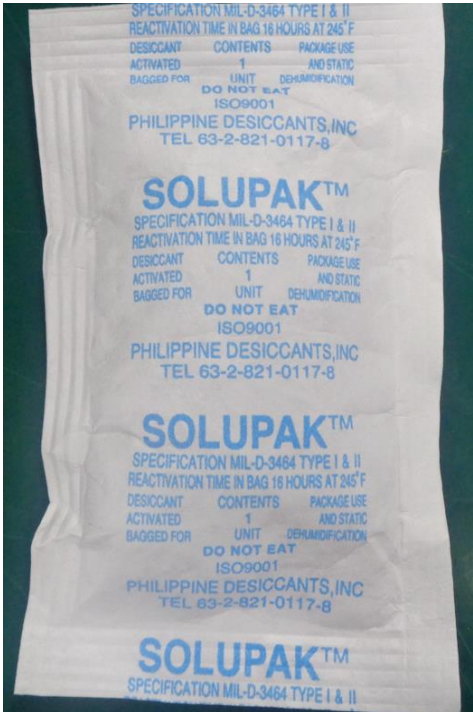
Plant	Reel Diameter (mm)	Reel Hub Size (mm)	W1 (mm)	W2 (mm)	Color
LPI	330	102	8.4	11.1	White
			16.4	19.1	
MPHL	330	100	17.5	21.5	White

Pre and Post Change Summary - Desiccant – T/R

LPI



MPHL




Pre and Post Change Summary - Antistatic Shielding Bag/Moisture Barrier Bag – T/R

LPI	MPHL	
		

Plant	Length (mm)	Width (mm)
LPI	400	470
MPHL	406.4	457.2

Pre and Post Change Summary – Carton Box – T/R

LPI			MPHL		
					
Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)
370	384	225	375	352	53

Pre and Post Change Summary - Tube

LPI	MPHL

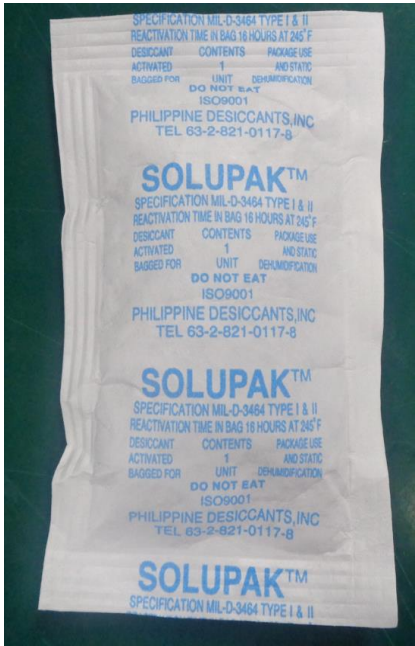
Plant	Length (in)	Width (in)	Color
LPI	20.0±0.10	0.580±0.005	Clear
MPHL	20.157±0.04	0.580±0.005	Clear

Pre and Post Change Summary - Desiccant – Tube




LPI



MPHL



Pre and Post Change Summary - Antistatic Shielding Bag/Moisture Barrier Bag – Tube

LPI	MPHL
	 

Plant	Length (cm)	Width (cm)
LPI	76	15
MPHL	68	23
	76	

Pre and Post Change Summary – Carton Box – Tube

LPI			MPHL		
					
Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)
600	280	105	560	130	78



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QUALIFICATION REPORT SUMMARY

PCN #: MAAN-24MZCK984

Date:
May 22, 2024

Qualification of MPHL as new final test site for AT42QT2120-SU, AT42QT2120-SUR, AT89S2051-24SU, ATTINY26L-8SURA2, AT89C4051-24SU, AT89C4051-12SU, AT89C4051-24SUR, AT89C4051-12SUR, ATTINY4313-SU, ATTINY4313-SUR and AT89LP4052-20SU catalog part numbers (CPN) available in 20L SOIC (0.300in) package.



Purpose: Qualification of MPHL as new final test site for AT42QT2120-SU, AT42QT2120-SUR, AT89S2051-24SU, ATTINY26L-8SURA2, AT89C4051-24SU, AT89C4051-12SU, AT89C4051-24SUR, AT89C4051-12SUR, ATTINY4313-SU, ATTINY4313-SUR and AT89LP4052-20SU catalog part numbers (CPN) available in 20L SOIC (0.300in) package.

CCB No.: 6913

Test / Evaluation	Test Condition / Parameter	Results
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.	Passed
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.	Passed
Correlation Lot Report	<ul style="list-style-type: none">• Yield comparison between systems and test sites.• Accept on yield match within 0.1%.	Passed
Test Stability Verification	<ul style="list-style-type: none">• 50 loop test performed with no datalog delays.<ul style="list-style-type: none">- Accept on 0 fails	Passed