

Product Change Notification / MAAN-12GHBU233

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14-Feb-2024

Product Category:

8-Bit Microcontrollers, Capacitive Touch Sensors

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6692 Initial Notice: Qualification of MPHL as new final test site for ATTINY20, ATTINY24xx, ATTINY44xx, ATTINY84xx and AT42QT1070 device families available in 14L SOIC (.150in) package.

Affected CPNs:

MAAN-12GHBU233_Affected_CPN_02142024.pdf MAAN-12GHBU233 Affected CPN 02142024.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 new final test site for ATTINY20, ATTINY24xx, ATTINY44xx, ATTINY84xx and AT42QT1070 device families available in 14L SOIC (.150in) package.

Pre and Post Change Summary:

	Pre Change	Post Change
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Final Test Site		Lingsen Precision Industries, LTD. (LPI)	Microchip Technology Operations (Philippines) Corporation (MPHL)	
Base Quantity	Tape and Reel	3000	3000	
Multiple (BQM)	Tube	57	57	
Pin1	Tape and Reel	Quadrant 1	Quadrant 1	
Orientation	Tube	See pre and post change summary fo comparison.		
Carr	ier Tape	With minor dimensional change. See pre and post		
Cov	er Tape	change for comparison.		
	Color	White	White	
Plastic Reel	Dimension	With dimensional change. See pre and post change for comparison.		
Packin	g Method	See pre and post change 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 Qualification Completion Date: March 2024

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:

	February 2024			March 2024						
Workweek	05	06	07	80	09	10	11	12	13	14
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: February 14, 2024: 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_MAAN-12GHBU233_Pre_and_Post_Change_Summary.pdf PCN_MAAN-12GHBU233_Qual Plan.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</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.

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Affected Catalog Part Numbers (CPN)

ATTINY44A-SSNR

ATTINY44A-SSURB09

ATTINY44A-SSURA0

ATTINY24-20SSUR

ATTINY24V-10SSUR

ATTINY84A-SSU

ATTINY84A-SSUR

ATTINY84A-SSFRA0

ATTINY44-20SSU

ATTINY44V-10SSU

ATTINY24A-SSF

ATTINY20-SSU

ATTINY44-20SSUR

ATTINY44V-10SSUR

ATTINY44-20SSURA0

ATTINY84-20SSU

ATTINY24-20SSU

ATTINY24V-10SSU

ATTINY24A-SSN

ATTINY24A-SSNR

ATTINY84-20SSUR

ATTINY24A-SSUR880

ATTINY24A-SSURA0

AT42QT1070-SSUR

ATTINY20-SSUR

ATTINY84V-10SSU

ATTINY84V-10SSUR

ATTINY44A-SSN

ATTINY24A-SSFR

Date: Tuesday, February 13, 2024

CCB 6692 Pre and Post Change Summary PCN #: MAAN-12GHBU233



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Pre and Post Change Summary

Tape and Reel

Test Site	Pin 1 Orientation	Base Quantity Multiple (BQM)
LPI	Media Pin1 Side Carrier Tape Quadrant 1 Quadrant 1	3000
MPHL	Media Pin1 Side Carrier Tape Quadrant 1 Quadrant 1	3000



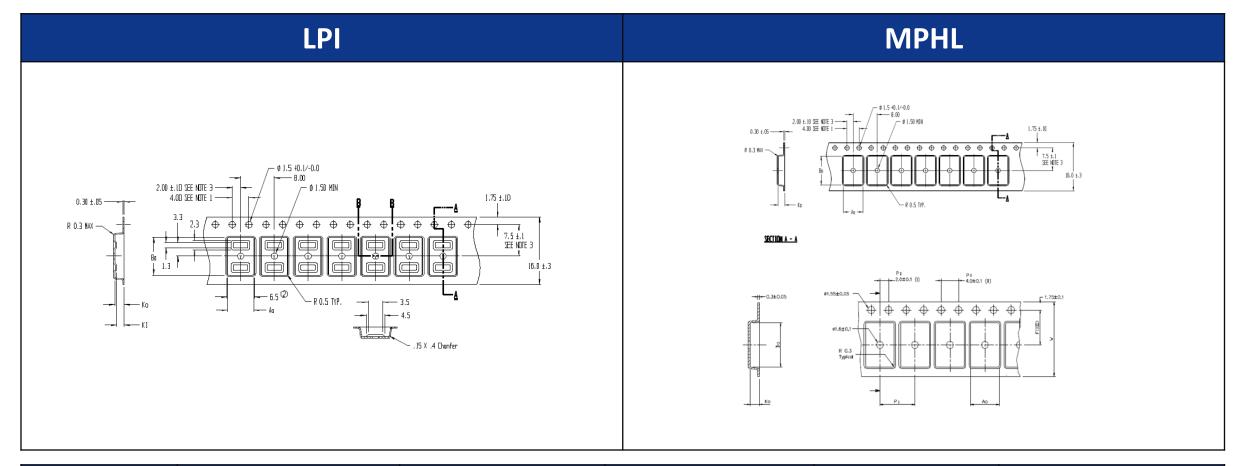
Pre and Post Change Summary

Tube

Test Site	Pin 1 Orientation	Base Quantity Multiple (BQM)
LPI	Green Side	57
MPHL	White Side	57



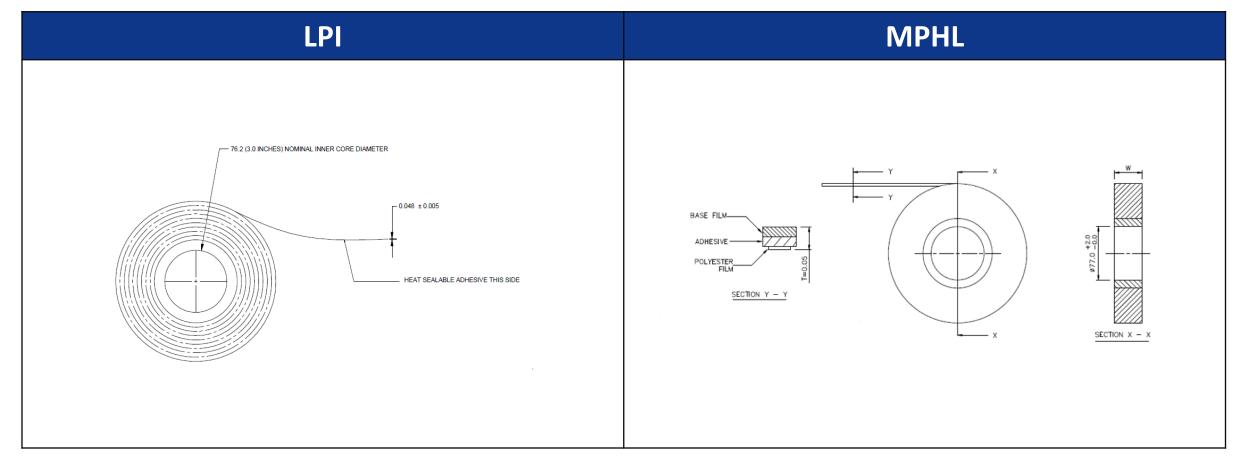
Pre and Post Change Summary - Carrier Tape - T/R



Plant	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)
LPI	16	8	6.5	9	2.2
MDIII	16	8	6.5	9.5	2.1
MPHL	16	8	6.55	9.5	2.1



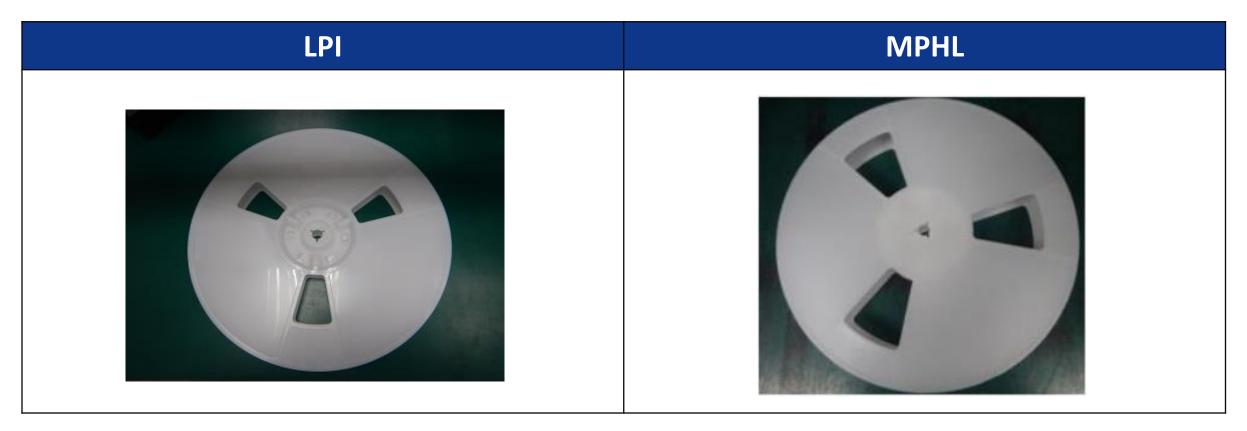
Pre and Post Change Summary – Cover Tape – T/R



Plant	Width (mm)	Thickness (mm)	Sealing Method
LPI	13.3±0.1mm	0.048 ± 0.005	Heat Seal
MPHL	13.3±0.1mm	0.05 ± 0.005	Pressure Seal



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



Plai	nt	Reel Diameter (mm)	Reel Hub Size (mm)	W1 (mm)	W2 (mm)	Color
LP	1	330	100	4.4	7.1	White
MPI	HL	330	100	17.5	21.5	White



Pre and Post Change Summary - Desiccant - T/R





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



Plant	Length (mm)	Width (mm)
LPI	450	420
MPHL	406.4	457.2



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

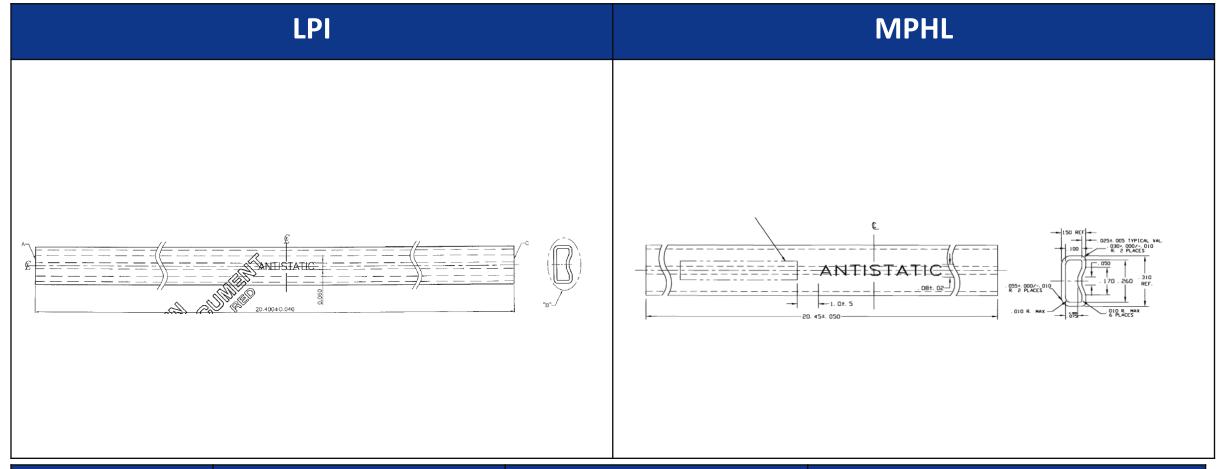


Length (mm)	Width (mm)	Height (mm)
370	384	110
370	384	225
370	390	390

Length (mm)	Width (mm)	Height (mm)
375	352	53



Pre and Post Change Summary - Tube



Plant	Length (inch)	Width (inch)	Color
LPI	20.40 +/- 0.04	0.310 +/- 0.005	Clear
MPHL	20.45 +/- 0.05	0.310	Clear

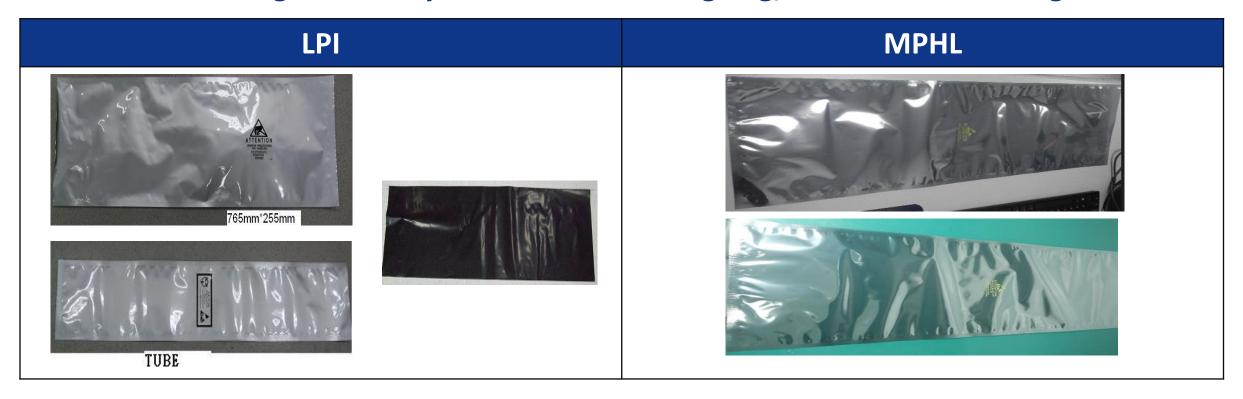


Pre and Post Change Summary - Desiccant – Tube





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



Plant		Length (mm)	Width (mm)	Thickness (mm)
LDI	Vacuum Aluminum Foil Bag	255	764	0.15
LPI	Black conductive bag	210	770	0.08
NADILI	680		230	N/A
MPHL 760		230	N/A	



Pre and Post Change Summary – Carton Box – Tube



Length (mm)	Width (mm)	Height (mm)
600	430	188
600	280	105

Length (mm)	Width (mm)	Height (mm)
370	380	110





PCN#: MAAN-12GHBU233

Date February 1, 2024

Qualification of MPHL as new final test site for ATTINY20, ATTINY24xx, ATTINY84xx and AT42QT1070 device families available in 14L SOIC (.150in) package.



Purpose: Qualification of MPHL as new final test site for ATTINY20,

ATTINY24xx, ATTINY44xx, ATTINY84xx and AT42QT1070

device families available in 14L SOIC (.150in) package.

CCB No.: 6692

Test / Evaluation	Test Condition / Parameter
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 comparison between systems and test sites. Accept on yield match within 0.1%.
Test Stability Verification	 50 loop test performed with no datalog delays. Accept on 0 fails