

Product Change Notification / MFOL-18PVHH137

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27-Mar-2024

Product Category:

8-Bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6694 Final Notice: Qualification of MTAI as a new final test site for selected ATMEGA128, ATMEGA16xx, ATMEGA32, ATMEGA48, ATMEGA64, ATMEGA8xx, ATTINY13, ATTINY24, ATTINY25, ATTINY44, ATTINY45, ATTINY84 and ATTINY85 device families available in various packages.

Affected CPNs:

MFOL-18PVHH137_Affected_CPN_03272024.pdf MFOL-18PVHH137_Affected_CPN_03272024.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 MTAI as a new final test site for selected ATMEGA128, ATMEGA16xx, ATMEGA32, ATMEGA48, ATMEGA64, ATMEGA8xx, ATTINY13, ATTINY24, ATTINY25, ATTINY44, ATTINY45, ATTINY84 and ATTINY85 device families available in various packages

Pre and Post Change Summary:

For 8L PDIP:

	Pre Change	Post Change			
Final Test Site	Lingsen Precision Industries, LTD.	Microchip Technology Thailand (HQ)			
	(LPI)	(MTAI)			
Base Quantity Multiple (BQM)	50	50			
Pin 1 Orientation	Pin# 1 Toward Green stopper or pin	Pin# 1 Toward White stopper or pin (Opposite Side: Black)			
Tube	With minimal dimensional change. See Pre and Post Change Summary for comparison				
Packing Method	See Pre and Post Change Summary for comparison				

For 14L PDIP:

	Pre Change	Post Change		
Final Test Site	Lingsen Precision Industries, LTD.	Microchip Technology Thailand (HQ)		
	(LPI)	(MTAI)		
Base Quantity Multiple (BQM)	25	30		
Pin 1 Orientation	Pin# 1 Toward Green stopper or pin	Pin# 1 Toward White stopper or pin (Opposite Side: Black)		
Tube	With dimensional change. See Pre and Post Change Summary for comparison			
Packing Method	See Pre and Post Change Summary for comparison			

For 28L SPDIP:

	Pre Change	Post Change			
Final Test Site	Lingsen Precision Industries, LTD.	Microchip Technology Thailand (HQ)			
	(LPI)	(MTAI)			
Base Quantity Multiple (BQM)	14	14			
Pin 1 Orientation	Pin# 1 Toward Green stopper or pin	Pin# 1 Toward White stopper or pin (Opposite Side: Black)			
	No dimensional change.				
Tube	See Pre and Post Change Summary for comparison				
Packing Method	See Pre and Post Change Summary for comparison				

For 40L PDIP:

	Pre Change	Post Change		
Final Test Site	Lingsen Precision Industries, LTD.	Microchip Technology Thailand (HQ)		
	(LPI)	(MTAI)		
Base Quantity Multiple (BQM)	10	10		
Pin 1 Orientation	Pin# 1 Toward Green stopper or pin	Pin# 1 Toward White stopper or pin (Opposite Side: Black)		
Tube	With minimal dimensional change. 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 MTAI as the new final test site.

Change Implementation Status:In Progress

Estimated First Ship Date: April 29, 2024 (date code: 2418)

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

Time Table Summary:

	December 2023		^	March 2024			April 2024									
Workweek	48	49	50	51	52		09	10	11	12	13	14	15	16	17	18
Initial PCN Issue Date				Χ												
Qual Report Availability										Χ						
Final PCN Issue Date										Χ						
Estimated Implementation Date																Χ

Method to Identify Change:Traceability code

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

Revision History: December 18, 2023: Issued initial notification.

March 20, 2024: Issued final notification. Updated the affected CPN list. Attached Qual Report and provided the estimated first ship date on April 29, 2024.

March 27, 2024: Re-Issued final notification to update affected CPN list due to updated CCB scope.

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

Attachments:

PCN_MFOL-18PVHH137_Qual Report.pdf PCN_MFOL-18PVHH137_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.

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Affected Catalog Part Numbers (CPN)

ATMEGA644A-PU

ATMEGA644PA-PU

ATMEGA16A-PU

ATMEGA32A-PU

ATMEGA1284P-PU

ATMEGA1284-PU

ATTINY13A-PU

ATTINY25-20PU

ATTINY25V-10PU

ATTINY45-20PU

ATTINY13-20PU

ATTINY13V-10PU

ATTINY45V-10PU

ATTINY85-20PU

ATTINY85V-10PU

ATTINY84A-PU

ATTINY24A-PU

ATTINY44A-PU

ATMEGA328P-PU

ATMEGA328-PU

ATMEGA328-PU

ATMEGA328P-PN

Date: Wednesday, March 27, 2024



QUALIFICATION REPROT SUMMARY RELIABILITY LABORATORY

PCN #: MFOL-18PVHH137

Date: March 07, 2024

Qualification of MTAI as a new final test site for selected ATMEGA128, ATMEGA16xx, ATMEGA32, ATMEGA48, ATMEGA64, ATMEGA8xx, ATTINY13, ATTINY24, ATTINY25, ATTINY44, ATTINY45, ATTINY84 and ATTINY85 device families available in various packages.



Purpose Qua

Qualification of MTAI as a new final test site for selected ATMEGA128, ATMEGA16xx, ATMEGA32, ATMEGA48, ATMEGA64, ATMEGA8xx, ATTINY13, ATTINY24, ATTINY25, ATTINY44, ATTINY45, ATTINY84 and ATTINY85 device families available in various packages.

CCB No. 6694

Test / Evaluation	Test Condition / 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 	Passed
Site By Site Verification	 Verifies the channel map has the correct site assignments and tester/handler communications work correctly 	Passed
Correlation Lot Report	 Yield comparison between systems and test sites. Accept on yield match within 0.1% 	Passed
Test Stability	 50 loop tests performed with no data log delays. Accept on 0 fails 	Passed

CCB 6694 PCN ID#: MFOL-18PVHH137



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Pre and Post Summary – Base Quantity Multiple (BQM)

		LPI	MTAI
	8L PDIP	50	50
	14L PDIP	25	30
Tube	28L SPDIP	14	14
	40L PDIP	10	10

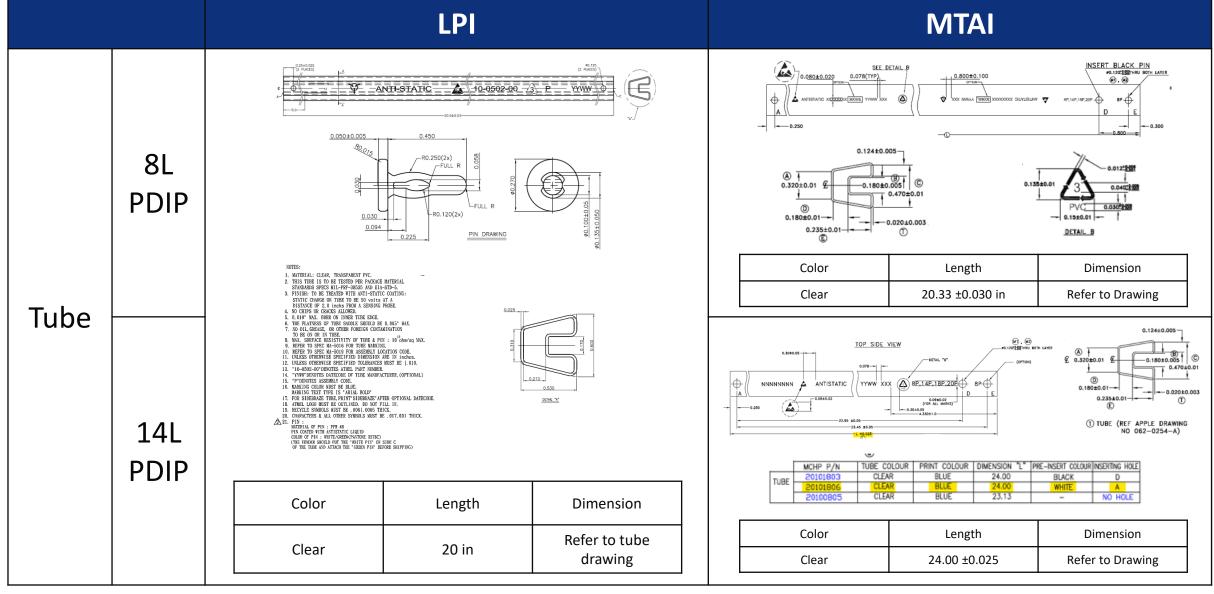


Pre and Post Summary – Pin 1 Orientation

		LPI	MTAI
	8L PDIP		
	14L PDIP		
Tube	28L SPDIP	Pin# 1 Toward Green stopper or pin	Pin# 1 Toward White stopper or pin (Opposite Side: Black)
	40L PDIP		

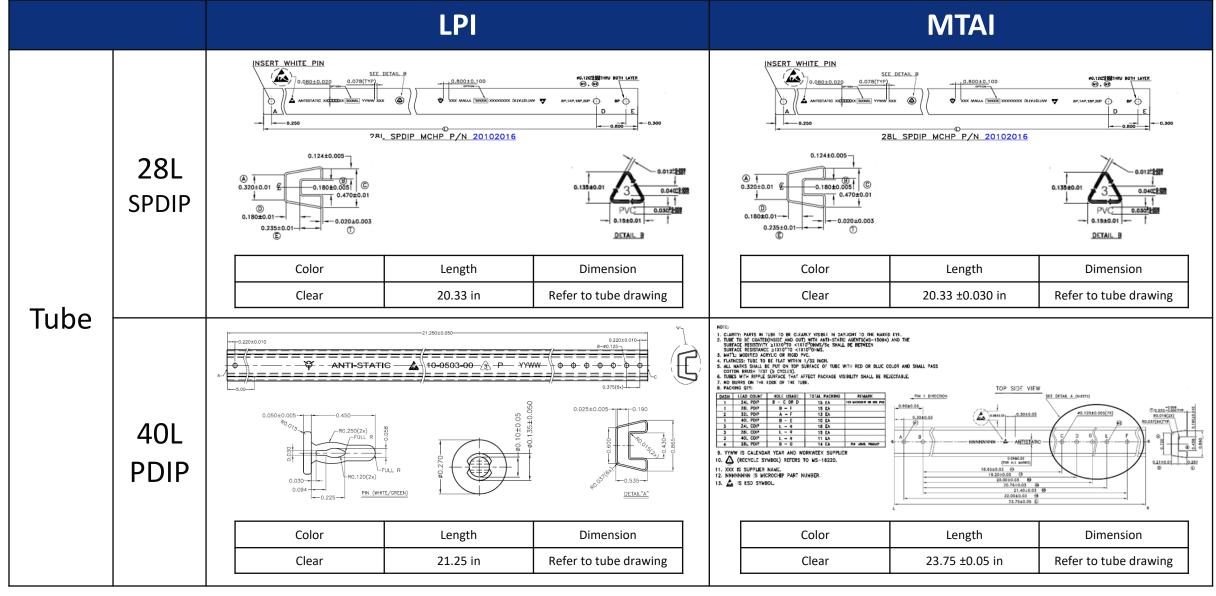


Pre and Post Summary – Tube



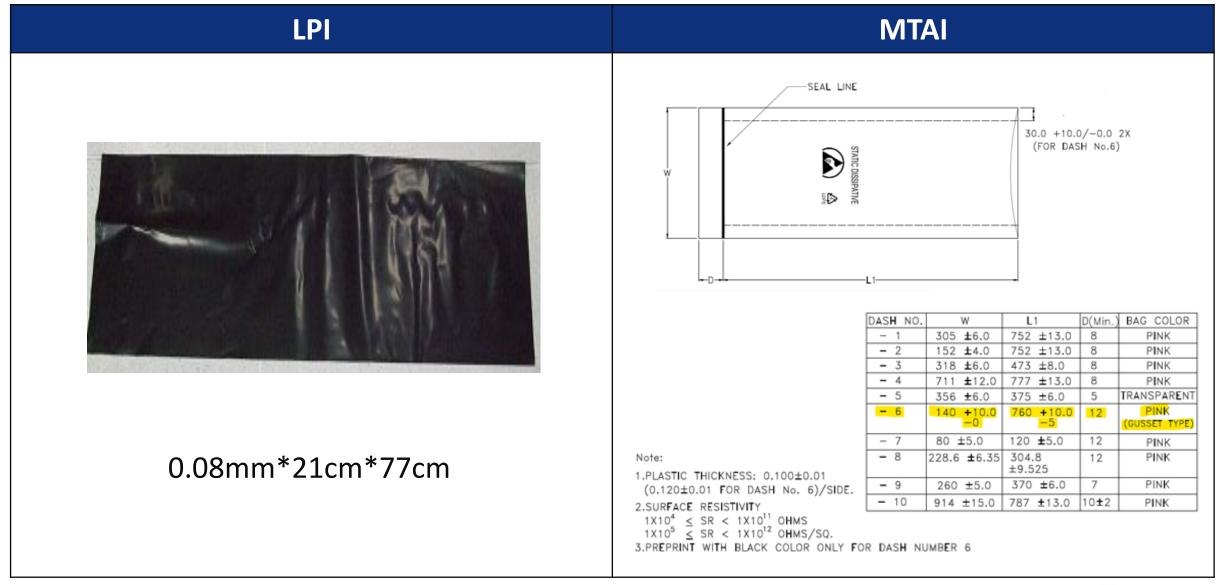


Pre and Post Summary – Tube





Pre and Post Summary – Antistatic Shielding Bag / Moisture Barrier Bag





Pre and Post Summary – Carton Box

LPI	MTAI
STATIC SENSITIVE A STATIC SENSITIVE A STATIC SENSITIVE A WHITE PTO	15.0x71.5x5.0 cm (1 bag per 1 outer box) 17.0x65.0x8.0 cm (1 bag per 1 outer box) 15.5x62.0x14.0 cm (2 bag per 1 outer box) 22.5x63.0x16.5 cm (3 bag per 1 outer box) 32.0x63.0x15.5 cm (4 bag per 1 outer box) 36.0x63.0x16.5 cm (5 bag per 1 outer box)
28.0x60.0x11.0 cm (2 inner box per 1 outer box) 43.0x60.0x19.0 cm (6 inner box per 1 outer box)	No Inner box

