

Product Change Notification / MFOL-18PVHH137

Date:

20-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_03202024.pdf MFOL-18PVHH137_Affected_CPN_03202024.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	Final Test Site Lingsen Precision Industries, LTD.					
	(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)				
Tube	No dimensional change. 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:

	C	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				Х												
Qual Report Availability										Х						
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: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.

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 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</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. MFOL-18PVHH137 - 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 Catalog Part Numbers (CPN)

ATMEGA644A-PU ATMEGA644PA-PU ATMEGA16L-8PU ATMEGA16A-PU ATMEGA32A-PU ATMEGA32A-PN ATMEGA1284P-PU ATMEGA1284-PU ATTINY13A-PU ATTINY13V-10PQ 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 ATMEGA8L-8PU ATMEGA8A-PU ATMEGA328P-PN ATMEGA8-16PU ATMEGA88A-PU ATMEGA88PA-PU ATMEGA8A-PN ATMEGA88PA-PN ATMEGA168A-PU ATMEGA168PA-PU ATMEGA48A-PU ATMEGA48PA-PU ATMEGA168PA-PN ATMEGA48PA-PN



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** Qualification of MTAI as a new final test site for selected ATMEGA128, ATMEGA16xx, ATMEGA32, ATMEGA48, ATMEGA64, ATMEGA8xx, ATTINY13, ATTINY24, ATTINY25, 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



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Pre and Post Summary – Base Quantity Multiple (BQM)

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

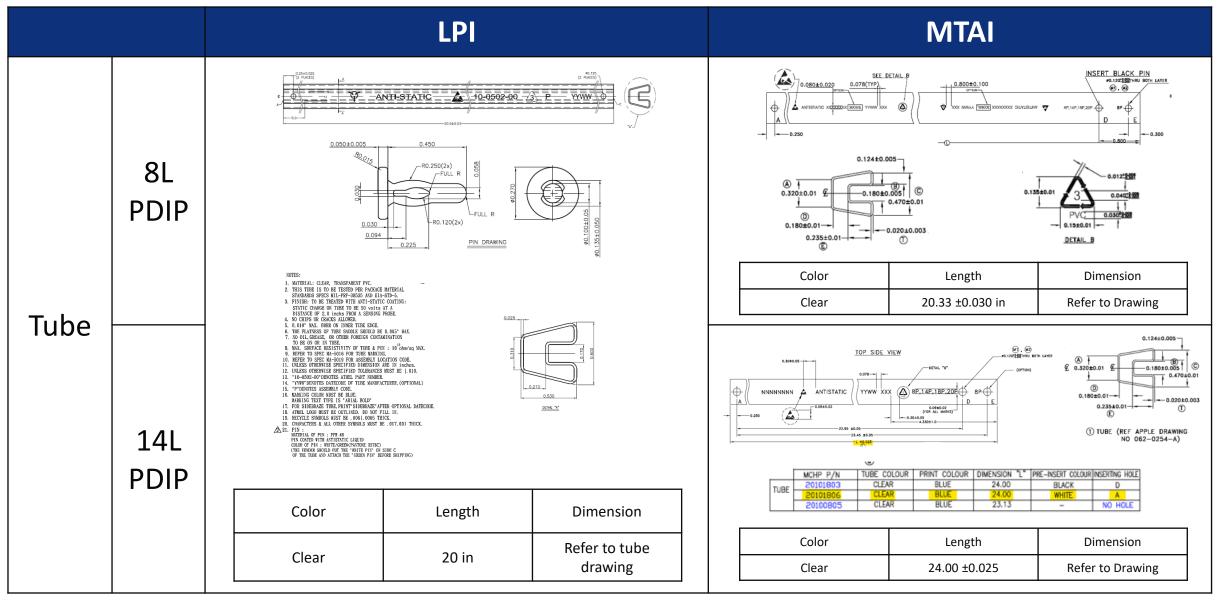


Pre and Post Summary – Pin 1 Orientation

		LPI	ΜΤΑΙ
	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		

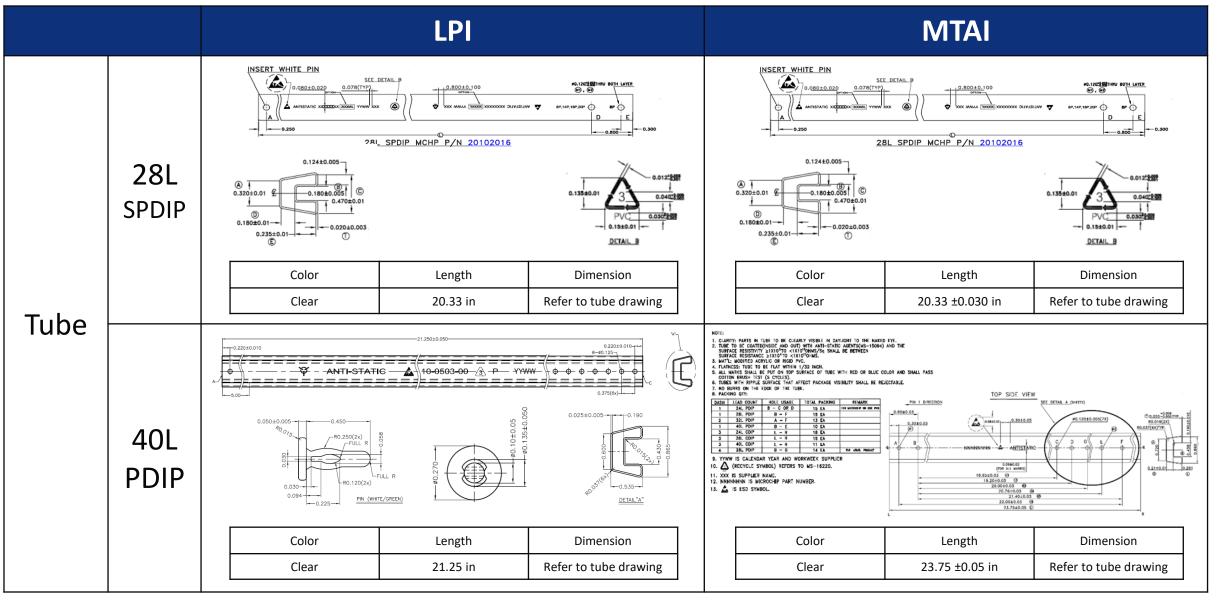


Pre and Post Summary – Tube





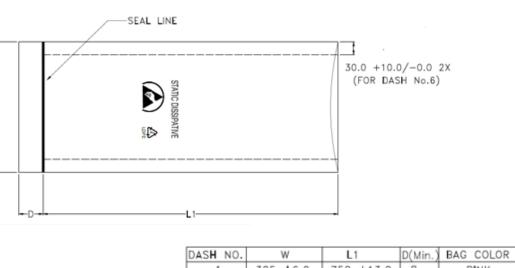
Pre and Post Summary – Tube





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





MTAI

	DASH NO.	W	L1	D(Min.)	BAG COLOR
	- 1	305 ±6.0	752 ±13.0	8	PINK
	- 2	152 ±4.0	752 ±13.0	8	PINK
	- 3	318 ±6.0	473 ±8.0	8	PINK
	- 4	711 ±12.0	777 ±13.0	8	PINK
	- 5	356 ±6.0	375 ±6.0	5	TRANSPARENT
	- 6	140 +10.0	760 +10.0	12	PINK
		<mark>-0</mark>	-5		(GUSSET TYPE)
	- 7	80 ±5.0	120 ±5.0	12	PINK
	- 8	228.6 ±6.35		12	PINK
			±9.525		
DE.	- 9	260 ±5.0	370 ±6.0	7	PINK
	- 10	914 ±15.0	787 ±13.0	10 ± 2	PINK

1.PLASTIC THICKNESS: 0.100±0.01 (0.120±0.01 FOR DASH No. 6)/SID

3.PREPRINT WITH BLACK COLOR ONLY FOR DASH NUMBER 6



Pre and Post Summary – Carton Box

LPI	MTAI
STATIC SENSITIVE A	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)	No Inner box
43.0x60.0x19.0 cm (6 inner box per 1 outer box)	

