



Product Change Notification / KSRA-07GBXJ537

Date:

10-Mar-2021

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3546.002 Final Notice: Qualification of MTAI as an additional final test site for Atmel ATTiny414-SSF and ATTiny414-SSFR catalog part numbers (CPN) available in 14L SOIC package.

Affected CPNs:

[KSRA-07GBXJ537_Affected_CPN_03102021.pdf](#)
[KSRA-07GBXJ537_Affected_CPN_03102021.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 an additional final test site for Atmel ATTiny414-SSF and ATTiny414-SSFR catalog part numbers (CPN) available in 14L SOIC package.

Pre and Post Change Summary:

	Pre Change	Post Change	
Final Test Site	Microchip Technology Operations (Philippines)	Microchip Technology Operations (Philippines)	Microchip Technology Thailand

		Corporation (MPHL)	Corporation (MPHL)	(HQ) (MTAI)
Base Quantity Multiple (BQM)	Tube	56	56	57
	Tape and Reel	3000	3000	3000
Pin Orientation	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1
	Tube	See pre and post change comparison.		
Carrier tape		No dimensional changes. See pre and post change comparison.		
Cover Tape		No dimensional changes. See pre and post change comparison.		
Reel		Color and minor dimensional changes. See pre and post change comparison.		
Desiccant		See pre and post change comparison.		
Antistatic Shielding Bag / Moisture Barrier Bag Packing Process		See pre and post change comparison.		
Carton/Pizza box		Minor dimensional changes. See pre and post change comparison.		

Impacts to Data Sheet: None

Change Impact:None

Reason for Change:To improve manufacturability by qualifying MTAI as an additional final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:April 10, 2021 (date code: 2115)

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

Time Table Summary:

	March 2021				April 2021					
	10	11	12	13	14	15	16	17	18	
Workweek										
Qual Report Availability		X								
Final PCN Issue Date		X								
Estimated						X				

Affected Catalog Part Numbers (CPN)

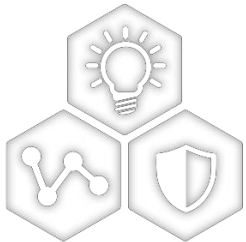
ATTiny414-SSF

ATTINY414-SSFR

CCB 3546.002
Pre and Post Change Summary
PCN# KSRA-07GBXJ537

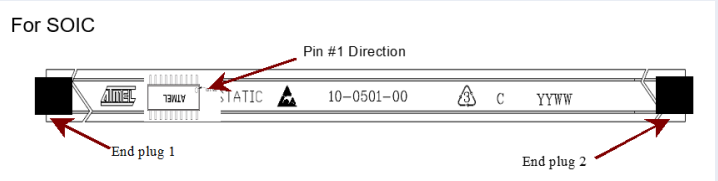
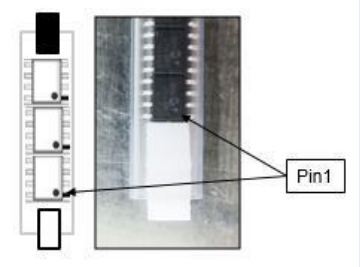



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Packing Information –Tube

	PRE CHANGE (MPHL)	POST CHANGE (MTAI)						
Final Test Location	Microchip Technology Operations (Philippines) Corporation /MPHL	Microchip Technology Thailand (HQ) / MTAI						
Packing Media	Tube	Tube						
Base Quantity Multiple (BQM)	56	57						
Pin 1 Orientation	<p>For SOIC</p> 	 <table border="1" data-bbox="1872 778 2497 906"> <thead> <tr> <th>Media</th> <th>Pin1 Side</th> <th>Opposite Side</th> </tr> </thead> <tbody> <tr> <td>TUBE</td> <td>White</td> <td>Black</td> </tr> </tbody> </table>	Media	Pin1 Side	Opposite Side	TUBE	White	Black
Media	Pin1 Side	Opposite Side						
TUBE	White	Black						
With Desiccant and HIC?	<p>1 unit Desiccant</p> 	Not Applicable						

Packing Information –Tube

PRE CHANGE (MPHL)

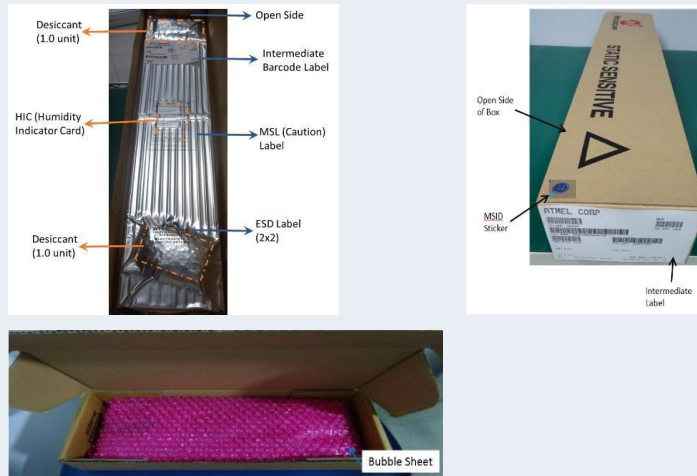
POST CHANGE (MTAI)

Final Test Location

Microchip Technology Operations (Philippines) Corporation /MPHL

Microchip Technology Thailand (HQ) / MTAI

Antistatic Shielding Bag / Moisture Barrier Bag Packing Process



Carton Box

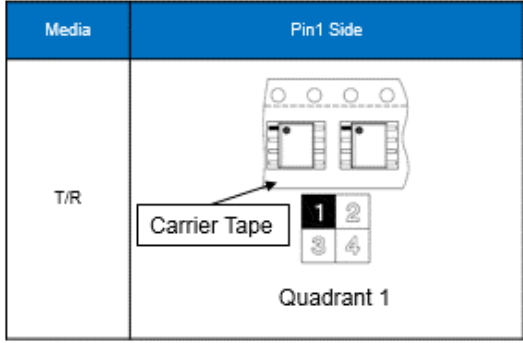
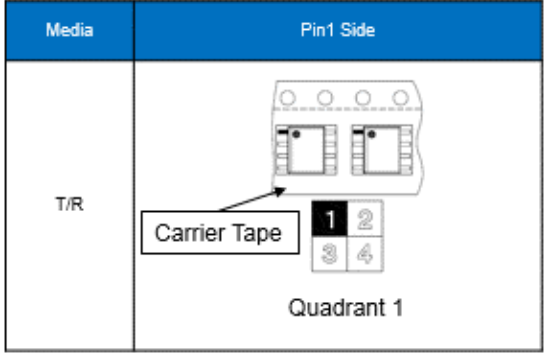



Length	Width	Height
560	130	78



Carton	Dimension W x L x H (cm)	Number of Bag/carton
M01-025 (C1)	15x64x5.5	1
M01-026 (C2)	15x64x10	2
M01-027 (C3)	15x64x14	3
M01-028 (C4)	28x63x11	4
M01-029 (C6)	28x63x15.5	6
M01-030 (C8)	28x63x20	8

Packing Information – Tape and Reel

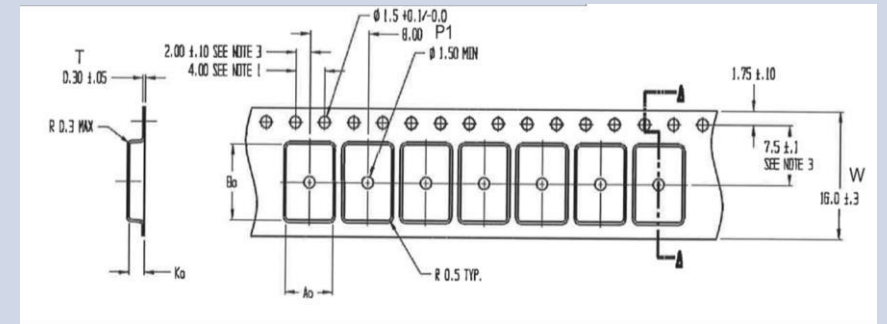
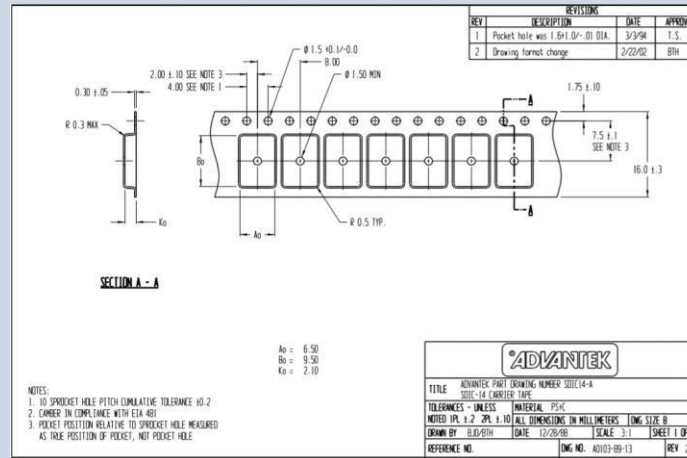
	PRE CHANGE (MPHL)	POST CHANGE (MTAI)
Final Test Location	Microchip Technology Operations (Philippines) Corporation /MPHL	Microchip Technology Thailand (HQ) / MTAI
Packing Media	Tape and Reel	Tape and Reel
Base Quantity Multiple (BQM)	3000	3000
Pin 1 Orientation	Quadrant 1 	Quadrant 1 
With Desiccant and HIC?	1 unit Desiccant 	Not Applicable

Packing Information – Tape and Reel

PRE CHANGE (MPHL)

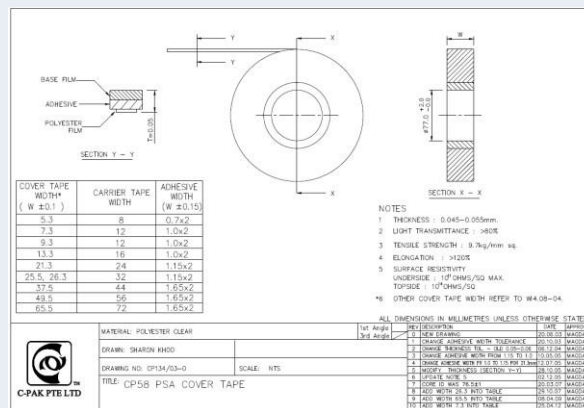
POST CHANGE (MTAI)

Carrier Tape



Mfg. Code	Mfg. Part No.	Microchip Part No.	Microchip Drawing No.	W (mm.) ± 0.3 or Specific	P (mm.) ± 0.1 or Specific	A ₀ ± 0.1 or Specific	B ₀ ± 0.1 or Specific	K ₀ ± 0.1 or Specific
AD	SOIC14-AC140.P1	22001406	B25-CT-092	16	8	6.50	9.50	2.10
CP	SO14NPS3 22X6NCL440 W16 (CL)	22001405	B25-CT-037	16	8	6.55	9.50	2.10

Cover Tape



Packing Information – Tape and Reel

PRE CHANGE (MPHL)

Carton Box



Length	Width	Height
375 mm	352 mm	53 mm

POST CHANGE (MTAI)



Carton	Dimension W x L x H (cm)	Total Reel per Box
M01-011 (TT)	36.5x38x39.5	14
M01-013 (B2)	35.5x35.5x4	1
M01-014 (B3)	35.5x35.5x6	2
M01-015 (B8)	35.5x35.5x16.5	6



MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: KSRA-07GBXJ537

Date

February 25, 2021

**Qualification of MTAI as an additional final test site for
Atmel ATTiny414-SSF and ATTiny414-SSFR catalog part
numbers (CPN) available in 14L SOIC package.**

Purpose: Qualification of MTAI as an additional final test site for Atmel ATTiny414-SSF and ATTiny414-SSFR catalog part numbers (CPN) available in 14L SOIC package.

CCB No.: 3546.002

Test / Evaluation	Test Conditions / Parameters	Results
Datalog / Bin Comparison	<ul style="list-style-type: none"> • Compare test numbers, test names, test limit, 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 communication work correctly 	PASSED
Correlation lot report	<ul style="list-style-type: none"> • Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform. • Accept on yield match within 1% 	PASSED
Unit to unit parametric correlation	<ul style="list-style-type: none"> • A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits 	PASSED
Test stability	<ul style="list-style-type: none"> • 50 loop test performed with no datalog delays • Accept on 0 fails 	PASSED
Parametric test stability verification	<ul style="list-style-type: none"> • Use Real Time Statistics software to create CPK report of all parametric tests 	PASSED