



Product Change Notification / ASER-22FIFB086

Date:

29-Mar-2022

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3104.002, 3104.003 & 3104.004 Final Notice: Qualification of MTAI as a new final test site for selected ATMEGA8xxx, ATMEGA168xxx & ATMEGA88xxx device families available in 32L TQFP (7x7x1.0mm) package

Affected CPNs:

[ASER-22FIFB086_Affected_CPN_03292022.pdf](#)

[ASER-22FIFB086_Affected_CPN_03292022.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 ATMEGA8xxx, ATMEGA168xxx & ATMEGA88xxx device families available in 32L TQFP (7x7x1.0mm) package.

Pre and Post Change Summary:

	Pre Change	Post Change
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Final Test Site		Amkor Technology Philippine (P1/P2), INC. (ANAP)	Microchip Technology Thailand (HQ) (MTAI)
Base Quantity Multiple (BQM)	Tray	250	250
	Tape and Reel	2000	2000
Moisture Sensitivity Level (MSL)		3	1
Pin1 Orientation	Tray	Near tray chamfer	Near tray chamfer
	Tape and Reel	Q1	Q1
Carrier Tape		With minor dimensional changes. See attached Pre and Post Change Summary for comparison.	
Reel	Color	White	Dark Blue
	Dimension	With minor dimensional changes. See attached Pre and Post Change Summary for comparison.	
Packing Method		See attached Pre and Post Change Summary for comparison.	

Impacts to Data Sheet:None

Change Impact:None

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

Change Implementation Status:In Progress

Estimated First Ship Date:May 9, 2022 (date code: 2220)

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:

	March 2022	>	May 2022
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Workweek	10	11	12	13	14		19	20	21	22	23
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_Plan.

Revision History:March 1, 2022: Issued initial notification.

March 29, 2022: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on May 9, 2022.

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

Attachments:

[PCN_ASER-22FIFB086 Qual Report.pdf](#)

[PCN_ASER-22FIFB086_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.

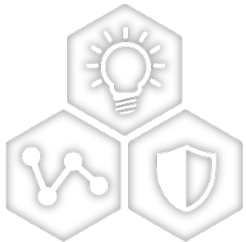
Affected Catalog Part Numbers (CPN)

ATMEGA8-16AU
ATMEGA8-16AUR
ATMEGA8L-8AU
ATMEGA8L-8AUR
ATMEGA8L-8AURA5
ATMEGA168A-AU
ATMEGA168A-AUR
ATMEGA88A-AU
ATMEGA88A-AUR
ATMEGA88PA-AUA6
ATMEGA88PA-AURA3

CCB 3104.002, 3104.003 & 3104.004
Pre and Post Change Summary
PCN #: ASER-22FIFB086



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



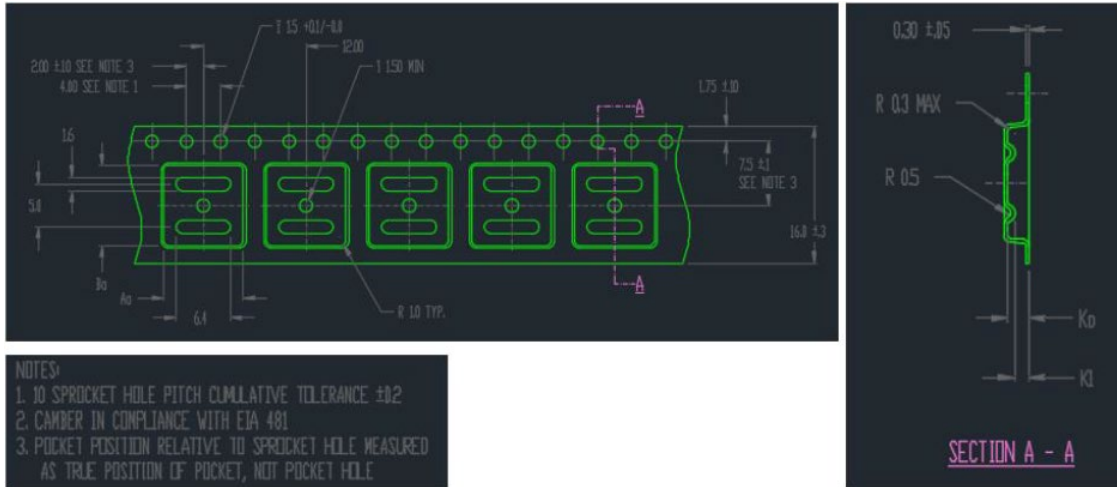
SMART | CONNECTED | SECURE

Tape and Reel - BQM and Pin 1 Orientation

	ANAP	MTAI
Base Quantity Multiple (BQM)	2000	2000
Pin 1 orientation	Quadrant 1	Quadrant 1

Tape and Reel - Carrier Tape

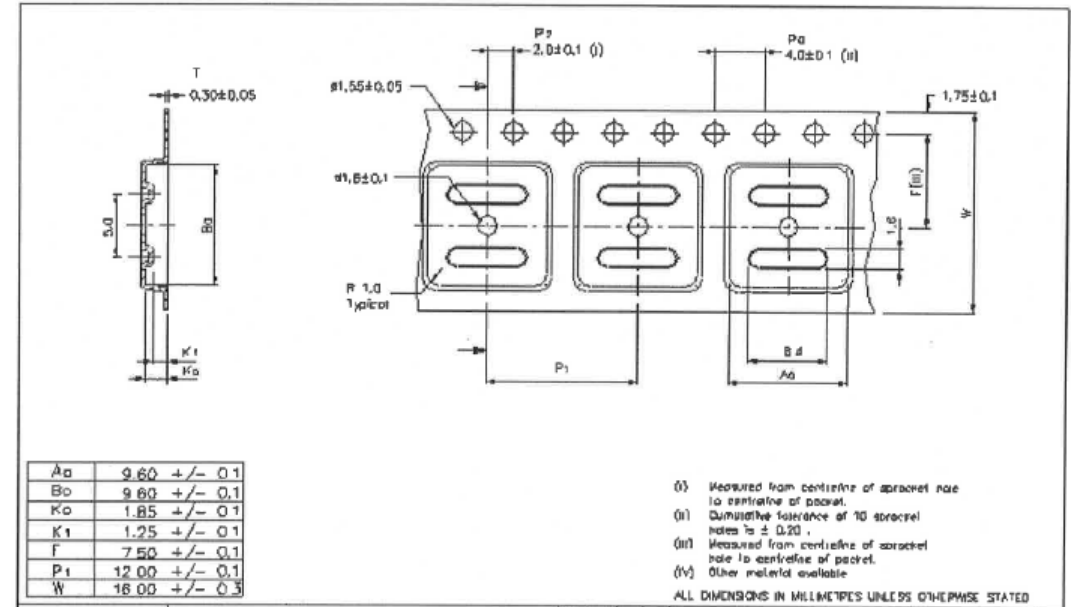
ANAP



W	P	Ao	Bo	Ko	K1
16.00 (+/- 0.30)	12.00 (+/- 0.10)	9.30 (+/- 0.10)	9.30 (+/- 0.10)	1.80 (+/- 0.10)	1.20 (+/- 0.10)

Thickness	Color
0.30 (+/- 0.05)	Black

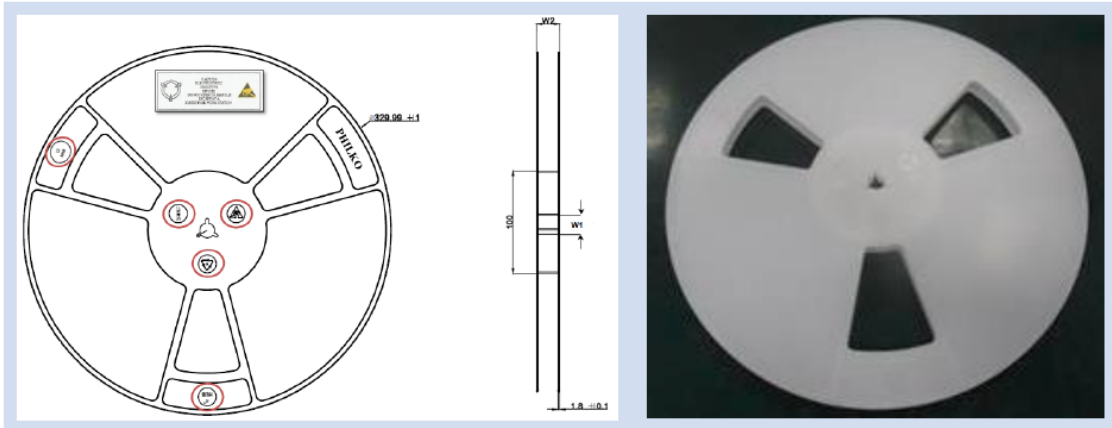
MTAI



W: 16 mm
 P1: 12 mm
 A0: 9.60 mm
 B0: 9.60 mm
 K0: 1.85 mm
 K1: 1.25 mm
 Supplier: C-PAK

Tape and Reel – Plastic Reel

ANAP



Width	Outer Diameter	Inner Diameter
16	330.2 (+/- 2.0)	100

Color: White

MTAI



Color: Dark Blue

D: 330

Hub: 4 inch (100mm)

W1: 16.40 mm (+2.00/-0.00)

W2: 22.40 Max

Tape and Reel – Packaging

Final Test Site	ANAP	MTAI
Desiccant		NA (MSL-1)
Antistatic Bag		
Boxes		

Tray - BQM and Pin 1 Orientation

	ANAP	MTAI
Base Quantity Multiple (BQM)	250	250
Pin 1 orientation	Pin1 near Tray Chamfer	Pin1 near Tray Chamfer

Tray – Packaging

Final Test Site	ANAP	MTAI
Desiccant		NA (MSL-1)
Antistatic Bag		
Boxes		



QUALIFICATION REPORT SUMMARY

PCN #: ASER-22FIFB086

**Date:
March 22, 2022**

Qualification of MTAI as a new final test site for selected ATMEGA8xxx, ATMEGA168xxx & ATMEGA88xxx device families available in 32L TQFP (7x7x1.0mm) package.

Purpose: Qualification of MTAI as a new final test site for selected ATMEGA8xxx, ATMEGA168xxx & ATMEGA88xxx device families available in 32L TQFP (7x7x1.0mm) package.

CCB No.: 3104.002, 3104.003 & 3104.004

Test Name	Test Conditions	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 at each step and reject analysis between systems. 5K units are tested for each program conversion we perform. - Accept on yield match within 0.1% 	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 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
Parametric test stability verification	<ul style="list-style-type: none"> - Use Real Time Statistics software to create CPK report of all parametric tests 	Passed