



Product Change Notification - RMES-22VSYL025

Date:

09 Dec 2019

Product Category:

Wireless IC

Affected CPNs:**Notification subject:**

CCB 3007.002 Final Notice: Qualification of MPHL as an additional Final Test site for selected Atmel ATSAMR30E18A and ATSAMR30G18A device families.

Notification text:**PCN Status:**

Final notification.

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of MPHL as an additional Final Test site for selected Atmel ATSAMR30E18A and ATSAMR30G18A device families.

Pre Change:

Tested at ASE9 final test site.

Post Change:

Tested at ASE9 or MPHL final test site.

Pre and Post Change Summary:

		Pre Change	Post Change	
Final test site		ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Base Quantity Multiple (BQM)	Tray	416	416	416
	Tape and Reel	4000	4000	4000
Pin 1 Orientation	Tray	No change (See attached Pre and Post comparison)		
	Tape and Reel			
Tray dimension		No change		



Carrier dimension	Minor Dimensional Changes (See attached Pre and Post comparison)
Plastic reel	Minor Dimensional Changes (See attached Pre and Post comparison)
Other packing information	See attached Pre and Post comparison

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying MPHL as an additional Final Test site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

January 9, 2020 (date code: 2002)

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

Time table Summary:

	November 2019					December 2019				January 2020				
Workweek	44	45	46	47	48	49	50	51	52	1	2	3	4	5
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_Report.

Revision History:

November 12, 2019: Issued initial notification

December 9, 2019: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on January 9, 2020.

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



Attachment(s):

[PCN_RMES-22VSYL025_QUAL_REPORT.pdf](#)

[PCN_RMES-22VSYL025_PRE AND POST CHANGE.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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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)

ATSAMR30E18A-MU

ATSAMR30E18A-MUA0

ATSAMR30E18A-MUT

ATSAMR30E18A-MUTA0

ATSAMR30G18A-MU

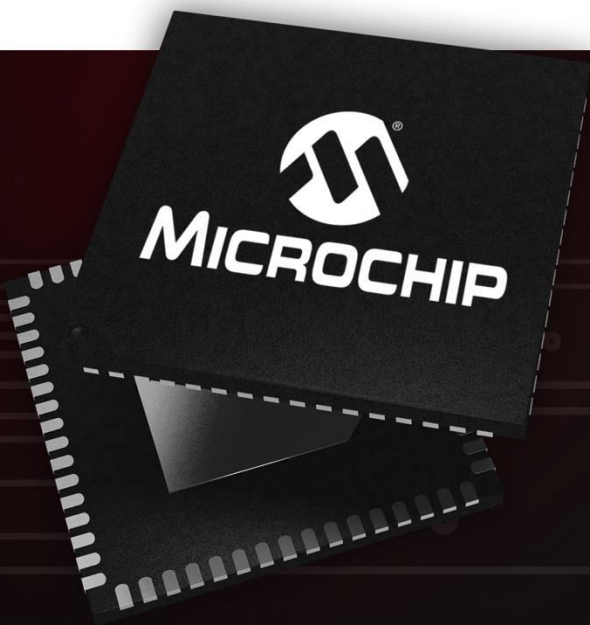
ATSAMR30G18A-MUA0

ATSAMR30G18A-MUT

ATSAMR30G18A-MUTA0



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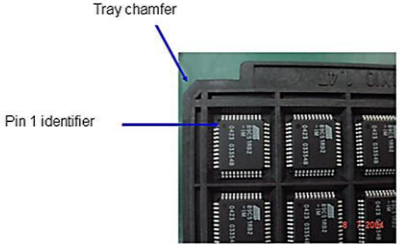
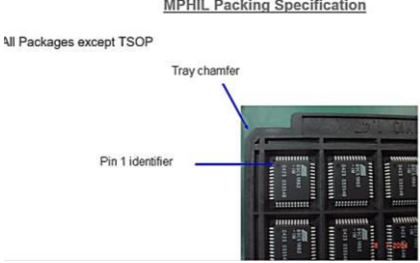


PCN#: RMES-22VSYL025


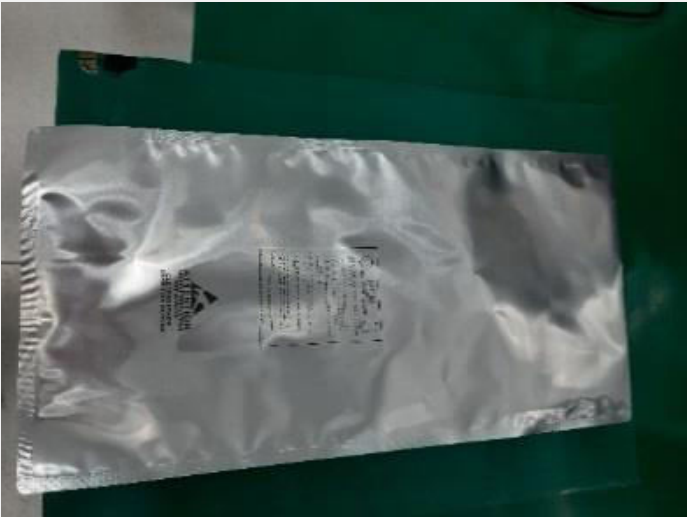
CCB 3007.002_ Pre and Post Changes Summary

For selected Atmel ATSAMR30E18A and ATSAMR30G18A device families

PRE AND POST CHANGE (TRAY)

Packing Media	ITEM	ASE	MPHL
Tray	Base Quantity Multiple (BQM)	416	416
	Tray dimension	No change	No change
	Tray Stack	10+1	10+1
	Tray	Bakeable (150°C)	Bakeable (150°C)
	Pin 1 Orientation	 <p>Tray chamfer</p> <p>Pin 1 identifier</p>	<p><u>MPHIL Packing Specification</u></p> <p>All Packages except TSOP</p>  <p>Tray chamfer</p> <p>Pin 1 identifier</p>

Moisture Barrier Bag – Tray

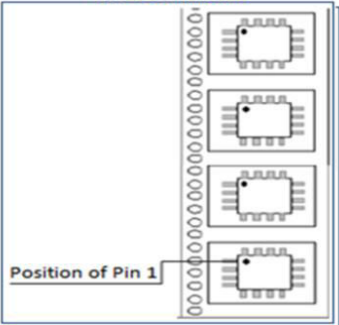
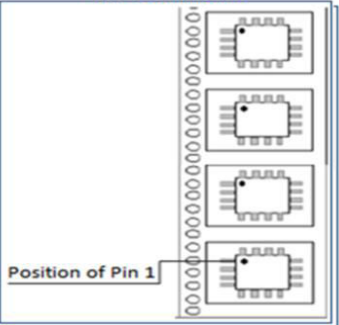
ASE		MPHL	
Length (mm)	Width (mm)	Length (mm)	Width (mm)
510 mm	280 mm	482.6 mm	228.6 mm
			

Carton Box – Tray

ASE			MPHL		
Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)
371.5 mm	162 mm	88 mm	371.5 mm	162 mm	88 mm



PRE AND POST CHANGE (Tape and Reel)

Packing Media	ITEM	ASE	MPHL
Tape and Reel	Base Quantity Multiple (BQM)	4000	4000
	Pin 1 Orientation	<p style="text-align: center;">QFP PACKAGES</p> 	<p style="text-align: center;">QFP PACKAGES</p> 



Packing Information – Tape and Reel

Packing Information	Final Test Site	Width	Pitch	Ao (mm)	Bo (mm)	Ko (mm)
Carrier Tape Dimension	ASE	12 mm	8 mm	5.25 ±0.1 mm	5.25 ±0.1 mm	1.1 ±0.1 mm
	MPHL	12 mm	12 mm	7.25 ±0.1 mm	7.25 ±0.1 mm	1.1 ±0.1 mm

Plastic reel

ASE

MPHL

MCHP STD Label Carrier Tape & Cover Tape



Protective Band Reel Label

MCHP STD Label Carrier Tape & Cover Tape



Protective Band Reel Label

PLANT	Reel Diameter	Hub diameter	W1 +0.3-0	W2 Max	Color
ASE	330 mm	102 mm	16.8 +0.3-0	22.2	White
MPHL	328 – 332 mm	100 – 102 mm	16.4 - 18.4 +0.3-0	22.4	Dark Blue

Desiccant – Tape and Reel

ASE



MPHL



Moisture Barrier Bag – Tape and Reel

ASE		MPHL	
Length (mm)	Width (mm)	Length (mm)	Width (mm)
495 mm	430 mm	457.2 mm	406.4 mm
			

Carton Box – Tape and Reel

ASE			MPHL		
Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)
354 mm	352 mm	53 mm	354 mm	352 mm	53 mm





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QUALIFICATION REPORT SUMMARY

PCN #: RMES-22VSYL025

**Date:
November 25, 2019**

**Qualification of MPHL as an additional Final Test site for
selected Atmel ATSAMR30E18A and ATSAMR30G18A device
families.**

Purpose: Qualification of MPHL as an additional Final Test site for selected Atmel ATSAMR30E18A and ATSAMR30G18A device families.

CCB No.: 3007.002

Test / Evaluation	Test Conditions / Parameters	Result
Lot Correlation	<ul style="list-style-type: none">1 qualification lots with 3, 000 units at currently qualified test site (original site) and new test site (destination site) for both ATSAMR30E18A and ATSAMR30G18A device families from ASE to MPHL	Pass
Parametric Data Comparison	<ul style="list-style-type: none">33 units of parametric data comparison	Pass
Datalog / Bin Comparison	<ul style="list-style-type: none">3,000 units yield sample for bin comparison ASE and MPHLThe yield difference should be within 0.1% and bin-to- bin difference should be within 0.1%	Pass