



Product Change Notification / KSRA-27VTNQ916

Date:

16-Jul-2020

Product Category:

32-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3658.001 Final Notice: Qualification of MPHL as an additional final test site for selected ATSAMD20G1xx and ATSAMD21G1xx Atmel device families available in 48L VQFN (7x7x0.9 mm) package.

Affected CPNs:

[KSRA-27VTNQ916_Affected_CPN_07162020.pdf](#)

[KSRA-27VTNQ916_Affected_CPN_07162020.csv](#)

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 ATSAMD20G1xx and ATSAMD21G1xx Atmel device families available in 48L VQFN (7x7x0.9 mm) package.

Pre Change:

Tested at ASE9 final test site

Post Change:

Tested at ASE9 final test site or tested at 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) Tape and reel	4000 units per reel	4000 units per reel	4000 units per reel
Pin 1 Orientation for reel	Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape Dimension (Reel)	Minor dimensional changes (see pre and post change comparison)		
Reel	Minor dimensional and color changes (see attached)		
Packing Method	Minor dimensional changes (see pre and post change 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:August 16, 2020 (date code: 2034)

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

Time Table Summary:

[illegible]

Method to Identify Change: Traceability code

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

Revision History: May 28, 2020: Issued initial notification

July 16, 2020: Issued final notification. Attached the Qualification Report. Revised the affected parts list. Provided estimated first ship date to be on August 16, 2020.

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

Attachments:

[PCN_KSRA-27VTNQ916_Pre and Post Change Summary.pdf](#)

[PCN_KSRA-27VTNQ916_Qual_Report.pdf](#)

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

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Affected Catalog Part Numbers (CPN)

ATSAMD21G17A-MF
ATSAMD21G18A-MF
ATSAMD21G18A-MU
ATSAMD21G17A-MU
ATSAMD21G17A-MUA1
ATSAMD21G18A-MUA1
ATSAMD21G18A-MU-SLL
ATSAMD21G17A-MUT
ATSAMD21G18A-MUT
ATSAMD21G17A-MUTA1
ATSAMD21G18A-MUTA1
ATSAMD21G18A-MUTN01
ATSAMD21G17A-MFT
ATSAMD21G18A-MFT
ATSAMD20G14A-MU
ATSAMD20G15A-MU
ATSAMD20G16A-MU
ATSAMD20G17A-MU
ATSAMD20G18A-MU
ATSAMD20G17A-MU
ATSAMD20G18A-MU
ATSAMD20G16A-MU
ATSAMD20G15A-MU
ATSAMD20G14A-MU
ATSAMD20G18A-MUA2
ATSAMD20G14A-MUA2
ATSAMD20G18A-MUA2
ATSAMD20G14A-MUA2
ATSAMD20G15A-MUA2
ATSAMD20G16A-MUA2
ATSAMD20G17A-MUA2
ATSAMD20G14A-MN
ATSAMD20G15A-MN
ATSAMD20G16A-MN
ATSAMD20G17A-MN
ATSAMD20G18A-MN
ATSAMD20G14A-MNT
ATSAMD20G15A-MNT
ATSAMD20G16A-MNT
ATSAMD20G17A-MNT
ATSAMD20G18A-MNT
ATSAMD20G17A-MUTA4
ATSAMD20G14A-MUT
ATSAMD20G15A-MUT
ATSAMD20G16A-MUT
ATSAMD20G17A-MUT

ATSAMD20G18A-MUT
ATSAMD20G17A-MUTA4
ATSAMD20G18A-MUT
ATSAMD20G17A-MUT
ATSAMD20G16A-MUT
ATSAMD20G15A-MUT
ATSAMD20G14A-MUT
ATSAMD20G14A-MUTA2
ATSAMD20G15A-MUTA2
ATSAMD20G16A-MUTA2
ATSAMD20G17A-MUTA2
ATSAMD20G18A-MUTA2

KSRA-27VTNQ916

CCB 3658.001 PRE AND POST CHANGE SUMMARY



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

**Qualification of MPHL as an additional final test site for selected
ATSAMD20G1xx and ATSAMD21G1xx Atmel device families available
in 48L VQFN (7x7x0.9 mm) package**

April 6, 2020


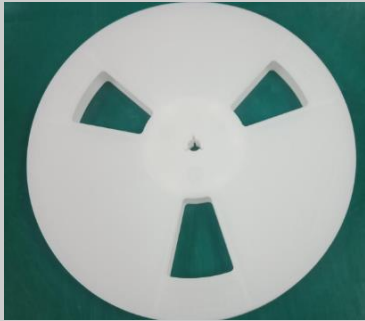




SMART | CONNECTED | SECURE


Pre and Post Change Summary

	Pre Change / ASE9					Post Change /MPHL				
Final Test Location	ASE9					MPHL				
Packing Media	Tape and Reel					Tape and Reel				
Base Quantity Multiple (BQM)	4000 units per reel					4000 units per reel				
Pin 1 Orientation	Quadrant 1					Quadrant 1				
Carrier Tape	Width	Pitch	Ao +/-0.1	Bo +/-0.1	Ko +/-0.1	Width	Pitch	Ao +/-0.1	Bo +/-0.1	Ko +/-0.1
	16	12	7.25	7.25	1.10	16	12	7.25	7.25	1.10



Pre and Post Change Summary

	Pre Change / ASE9					Post Change /MPHL				
Reel	Color	Diameter	Hub Dia	W1 +0.3-0.2	W2 Max	Color	Diameter	Hub Dia	W1 +0.3-0.2	W2 Max
	White	330	102	8.4	1.1	White	330	102	8.4	1.1
										
Dessicant										

Pre and Post Change Summary

Moisture Barrier Bag Dimension (mm)	Pre Change / ASE9		Post Change /MPHL	
	Length	Width	Length	Width
	495	430	457.2	406.4
				

Pre and Post Change Summary

	Pre Change / ASE9			Post Change /MPHL		
Carton Box	Length	Width	Height	Length	Width	Height
	370 mm	353 mm	78 mm	370 mm	353 mm	78 mm
						



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QUALIFICATION REPORT SUMMARY

PCN #: KSRA-27VTNQ916

Date

June 17, 2020

Qualification of MPHL as an additional final test site for selected ATSAMD20G1xx and ATSAMD21G1xx Atmel device families available in 48L VQFN (7x7x0.9 mm) package.

Purpose: Qualification of MPHL as an additional final test site for selected ATSAMD20G1xx and ATSAMD21G1xx Atmel device families available in 48L VQFN (7x7x0.9 mm) package.

CCB No.: 3658.001

Test / Evaluation	Test Conditions / Parameters	RESULT
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 results.	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.	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 delaysAccept 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 testsAccept on Cpk > 1.67 or explainable	PASSED