

Product Change Notification / ALAN-20ESKQ801

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23-Sep-2022

Product Category:

8-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3397.006 Initial Notice: Qualification of MPHIL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

Affected CPNs:

ALAN-20ESKQ801_Affected_CPN_09232022.pdf ALAN-20ESKQ801_Affected_CPN_09232022.csv

Notification Text:

PCN Status:Initial 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 MPHIL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

Pre and Post Change Summary:

	Pre Change	Post	Change
Test Location	ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology

			Operations Corporation (MPHIL)	
Reel BQM	6000	6000	6000	
Reel Pin 1 Orientation	Quadrant 2	Quadrant 2	Quadrant 2	
Carrier Tape	No change. S	ee pre and post chang	e for comparison.	
Plastic Reel	With minor dimensional change. See pre and post change for comparison.			
Moisture Barrier Bag	With minor dimensional change. See pre and post change for comparison.			
Вох	With minor dimensional change. See pre and post change for comparison.			
Tray BQM	490	490	490	
Tray Pin 1 Orientation	Near Chamfer	Near Chamfer	Near Chamfer	
Tray Bundling	No change. See pre and post change for comparison.			
Moisture Shielding Bag	See pre and post change for comparison.			
Inner Box	With minor dimensional change. See pre and post change for comparison.			

Impacts to Data Sheet:None

Change ImpactNone

Reason for Change:To improve productivity by qualifying MPHIL as an additional test location.

Change Implementation Status:In Progress

Estimated Qualification Completion DateSeptember 2022

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:

	September 2022				
Markunak	3	3	3	3	4
Workweek	6	7	8	9	0
Initial PCN Issue				_	
Date				^	

Qual Report Availability			Х
Final PCN Issue			v
Date			^

Method to Identify Change:Traceability code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN # Qual Plan.

Revision History: September 23, 2022: Issued initial notification.

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

Attachments:

PCN_ALAN-20ESKQ801 Qual Plan.pdf PCN_ALAN-20ESKQ801 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 <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> 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.

CCB 3397.006 Pre and Post Change Summary PCN# ALAN-20ESKQ801



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Tape and Reel

Plant	BQM	Pin1
ASE9	6000 per reel	Quadrant 2
MPHIL	6000 per reel	Quadrant 2

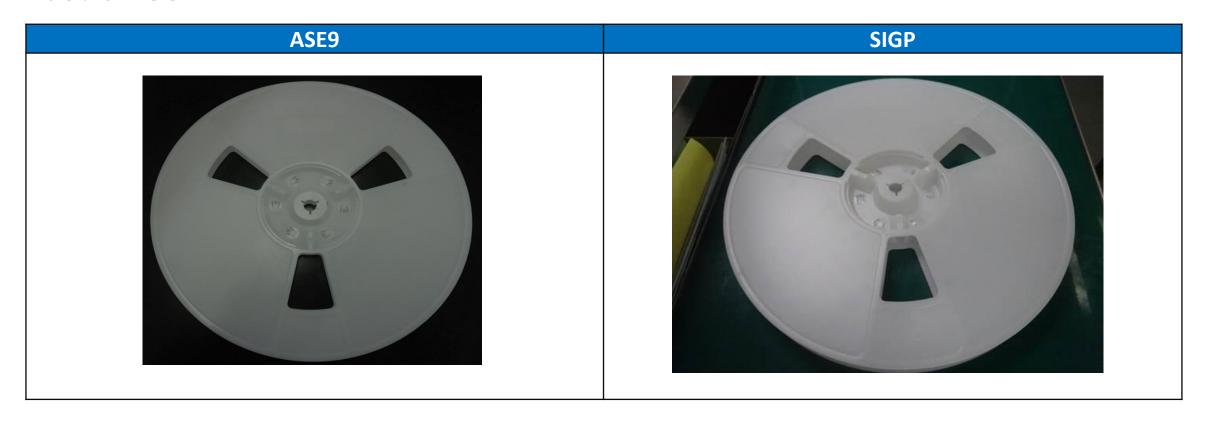


Carrier Tape

Plant	Width	Pitch	Α0	В0	КО
ASE9	12 mm	8 mm	5.25 mm	5.25 mm	1.1 mm
MPHIL	12 mm	8 mm	5.25 mm	5.25 mm	1.1 mm



Plastic Reel



Plant	Color	Diameter	Hub Dia	W1	W2
ASE9	White	330	102 mm	4.4 mm - 8.4 mm	7.1 mm - 11.1 mm
MPHIL	White	330	100 mm +/- 1.5	12.4 mm	18.4 mm



Moisture Barrier Bag



Plant	Length	Width
ASE9	495 mm	430 mm
MPHIL	457 mm	406 mm



Box



Plant	Length	Width	Height
ASE9	370 mm	351 mm	53 mm
MPHIL	375 mm	352 mm	53 mm

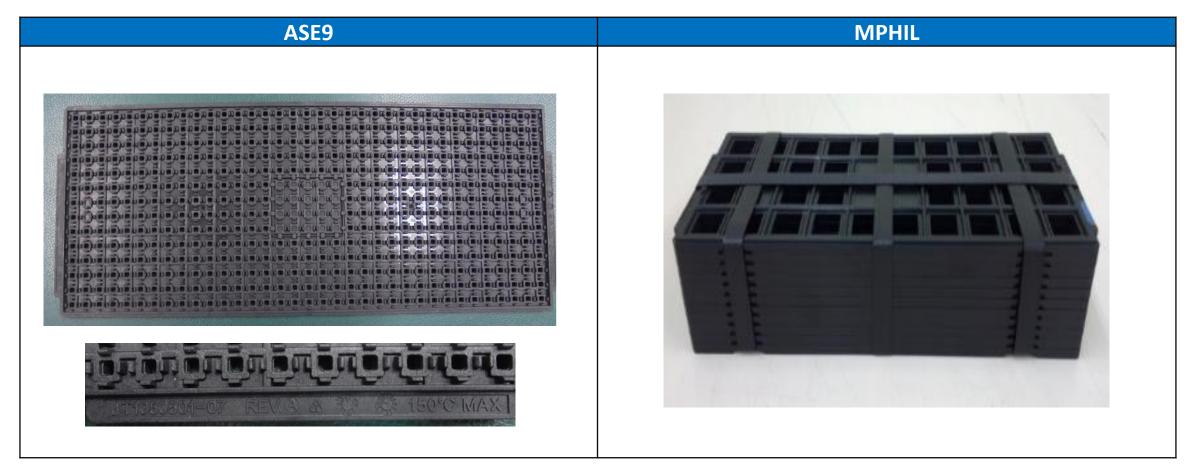


Tray

Plant	BQM	Pin1
ASE9	490 per Tray	Near Tray Chamfer
MPHIL	490 per Tray	Near Tray Chamfer



Tray Bundling



Plant	Tray Quantity
ASE9	10 + 1 cover tray
MPHIL	10 + 1 cover tray



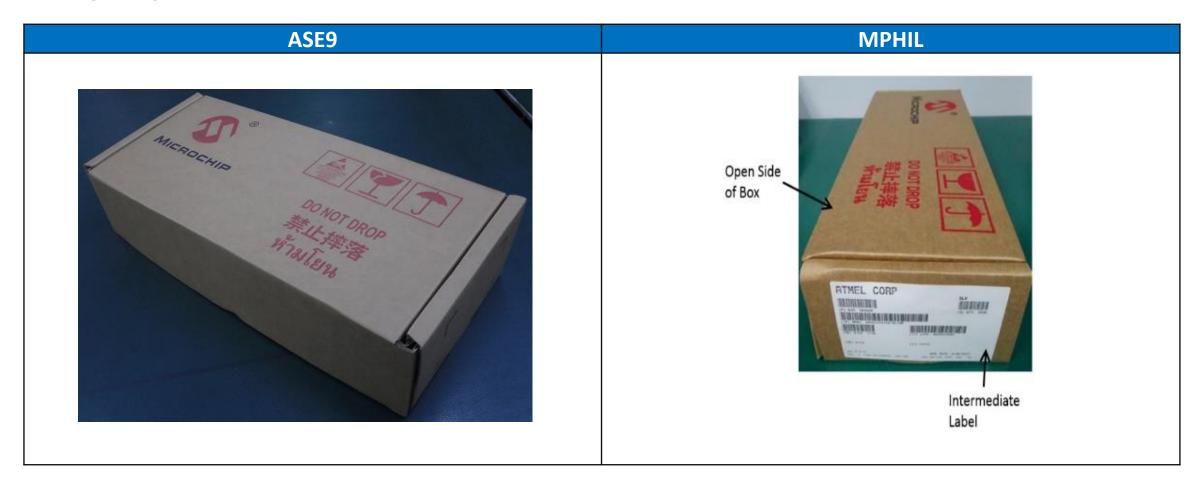
Moisture Shielding Bag



Plant	Shielding Bag
ASE9	Static Shielding Bag (SSB)
MPHIL	Static Shielding Bag (SSB)



Inner Box



Plant	Length	Width	Height
ASE9	371.5 mm	162 mm	88 mm
MPHIL	371 mm	162 mm	88 mm





QUALIFICATION PLAN SUMMARY

PCN# ALAN-20ESKQ801

Date: September 7, 2022

Qualification of MPHIL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

Purpose: Qualification of MPHIL as an additional test location for selected ATMEGA88PB and ATMEGA48PB device families available in 32L VQFN (5x5x0.9mm) package.

CCB# 3397.006

Test Conversion Correlation

Datalog/Bin Comparison	 Compare test numbers, test names, test sequence bin assignments & pass/fail results Accept if all match or justify the differences 	
Site by Site verification	 Verifies the channel map has the correct site assignments and tester/handler communications work correctly 	
Correlation lot report	 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%	
Unit to unit parametric correlation	 A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits 	
Test stability	 50 loop test performed with no datalog delays 	
	Accept on 0 fails	
Parametric test stability verification	 Use Real Time Statistics software 	

ALAN-20ESKQ801 - CCB 3397.006 Initial Notice: Qualification of MPHIL as an additional test location for selected

Affected Catalog Part Numbers(CPN)

ATMEGA88PB-MU

ATMEGA48PB-MU

ATMEGA88PB-MN

ATMEGA48PB-MN

ATMEGA88PB-MNR

ATMEGA48PB-MNR

ATMEGA88PB-MUR

ATMEGA48PB-MUR