

#### Product Change Notification / RMES-050ITM593

#### Date:

18-Mar-2022

#### **Product Category:**

Smart Energy SOC

#### PCN Type:

Manufacturing Change

#### **Notification Subject:**

CCB 3345.001 Final Notice: Qualification of MPHL as an additional final test site for selected Atmel ATSAM4Cxxx device family available in 100L LQFP (14x14x1.4mm) package.

#### Affected CPNs:

RMES-05OITM593\_Affected\_CPN\_03182022.pdf RMES-05OITM593\_Affected\_CPN\_03182022.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 MPHL as an additional final test site for selected Atmel ATSAM4Cxxx device family available in 100L LQFP (14x14x1.4mm) package.

Pre and Post Change Summary:

			Pre Change	Pos	st Change		
Fina	al Test Site		ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)		
	Base Quantity Multiple (BQM)		1500	1500	1500		
		Tray	90	90			
Pin 1 orier	Pin 1 orientation		Quadrant 1	Quadrant 1	Quadrant 1		
		Tray	Near Chamfer side	Near Chamfer side	Near Chamfer side		
Cai	rrier Tape		No changes. See Pre and Post comparison.				
Со	ver Tape		With dimensiona	Il changes. See Pre a	nd Post comparison.		
	Со	lor	White	White	White		
Reel	Dime	nsion	With dimensional cha	anges. See attached	Pre and Post comparison.		
Turk	Со	lor	Black	Black	Black		
Tray	Dime	nsion	No changes. See Pre and Post comparison.				
Packi	ing Metho	d	See atta	ached Pre and Post c	comparison.		

Impacts to Data Sheet:None

Change Impact:None

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

Change Implementation Status: In Progress

Estimated First Ship Date: April 30, 2022 (date code: 2218)

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

Time Table Summary:

	January 2021 > March 2022		2	April 2022											
Workweek	01	02	03	04	05		10	11	12	13	14	15	16	17	18

Initial PCN Issue Date		x						
Qual Report Availability					х			
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:**

January 06, 2021: Issued initial notification.

**March 18, 2022:** Issued final notification. Attached the Qualification Report and updated timetable summary. Added Estimated First ship date by April 30, 2022. Updated the affected CPN list to remove ATSAM4CMS32CB and ATSAM4CMP32CB device families.

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

#### **Attachments:**

PCN\_RMES-05OITM593\_Pre\_and\_Post Change Summary.pdf PCN\_RMES-05OITM593\_Qual Report.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 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 <u>change your PCN profile, 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. RMES-05OITM593 - CCB 3345.001 Final Notice: Qualification of MPHL as an additional final test site for selected Atmel ATSAM4Cxxx device family available in 100L LQFP (14x14x1.4mm) package.

Affected Catalog Part Numbers (CPN)

ATSAM4C16CB-AU ATSAM4C8CB-AU ATSAM4C4CB-AU ATSAM4C16CB-AUR ATSAM4C8CB-AUR ATSAM4C4CB-AUR

# CCB 3345.001 Pre and Post Change Summary PCN #: RMES-050ITM593



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# **List of Catalog Part Numbers**

**Catalog Part Number** 

ATSAM4C16CB-AUR

ATSAM4C8CB-AUR

ATSAM4C4CB-AUR

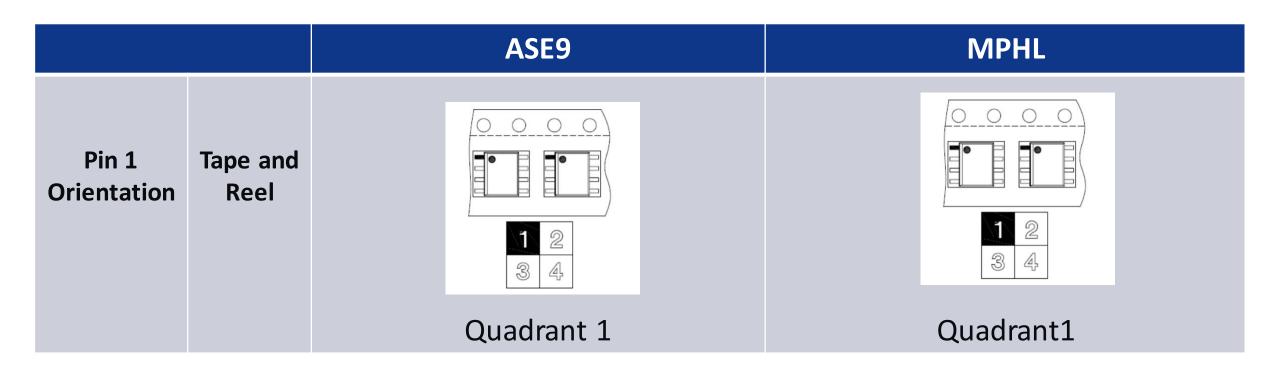


# **Pre and Post Change Summary**

		ASE9	MPHL
Final Tes	t Location	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Base Quantity Multiple (BQM)	Tape and Reel	1500	1500



# **Pre and Post Change Summary – Pin 1 Orientation for T/R**

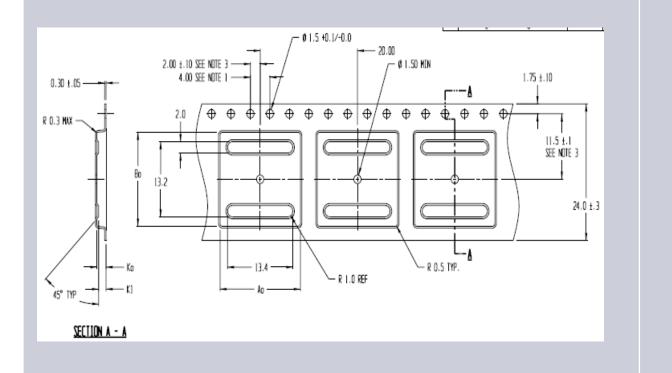


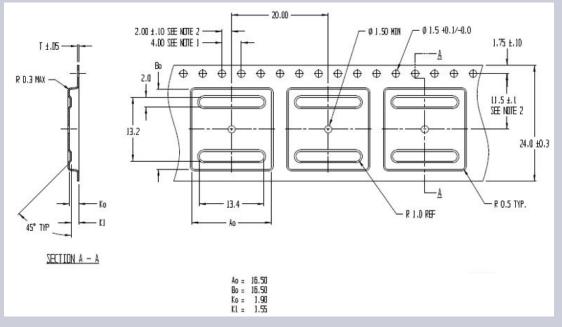


# **Pre and Post Change Summary – Carrier Tape for T/R**

### ASE9

**MPHL** 

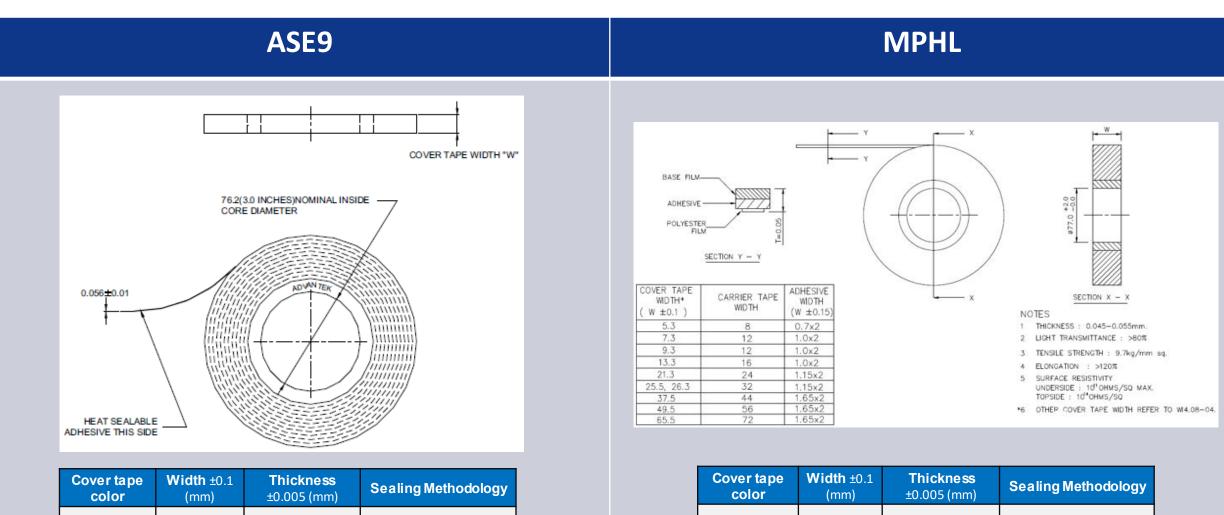




Plant	Width (mm)	Pitch (mm)	A0 (mm)	B0 (mm)	K0 (mm)	T (mm)	Color
ASE9	24	20	16.50	16.50	1.90	0.3	Black
MPHL	24	20	16.50	16.50	1.90	0.3	Black



# Pre and Post Change Summary – Cover Tape for T/R



21.3

Clear

0.050 +/-0.005



Pressure Seal Activated

Clear

21

0.056

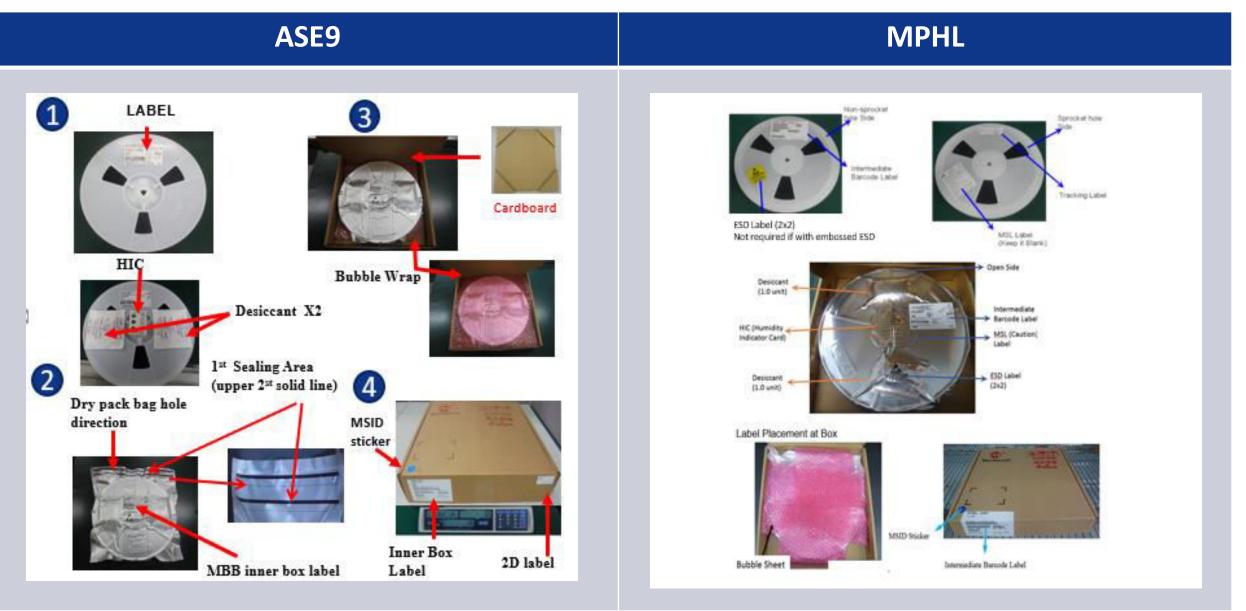
Heat

# **Pre and Post Change Summary – Plastic Reel for T/R**





# Packing Method – Tape and Reel Packing Method





# **List of Catalog Part Numbers**

**Catalog Part Number** 

ATSAM4C16CB-AU

ATSAM4C8CB-AU

ATSAM4C4CB-AU

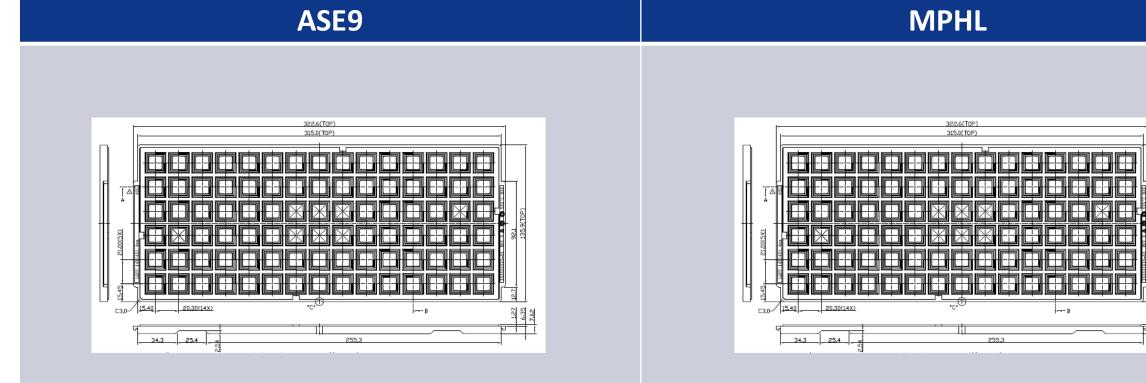


# **Pre and Post Change Summary – Tray**

		ASE9	MPHL		
Final Test Location		ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)		
Base Quantity Multiple (BQM)	Tray	90	90		
Pin 1 Orientation		1-(D) FIG-1 Pickage PIN 1 Charefer	1-(D) FIG-1 Package PIN 1 Charefer		
		Near Chamfer side	Near Chamfer side		



# **Packing Method – Tray Dimension**

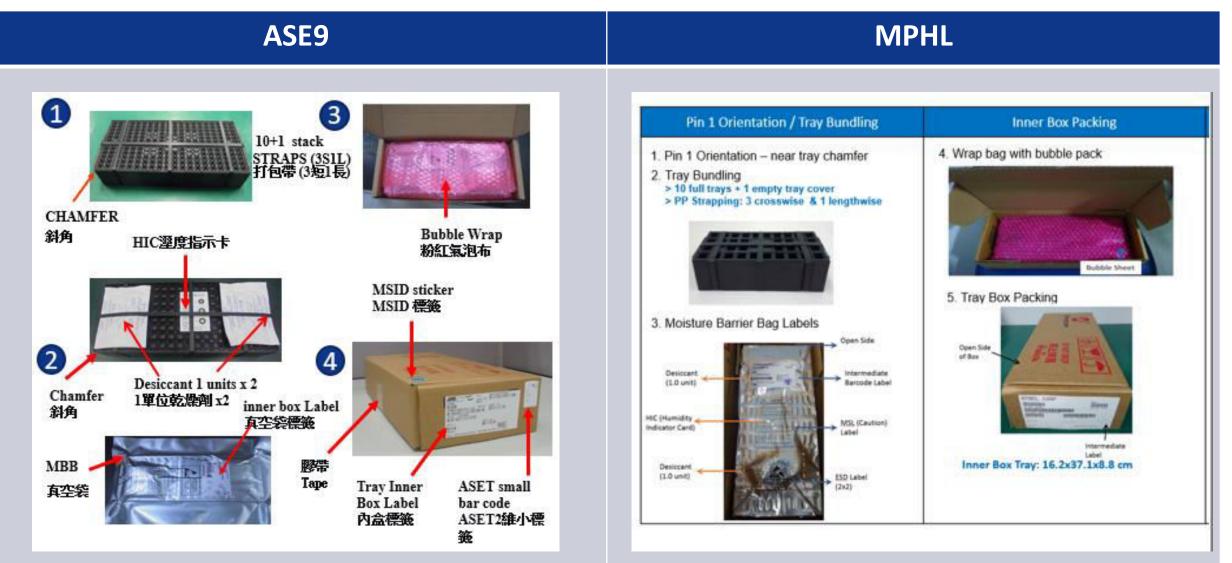


Plant	Length – max outer (mm)	Width – max outer (mm)	Thickness – max (mm)	Color
ASE	315	138.9	7.62	BLACK
MPHL	315	138.9	7.62	BLACK



6.35

# **Packing Method – Tray Packing Method**







### PCN #: RMES-050ITM593

Date: March 02, 2022

Qualification of MPHL as an additional final test site for selected Atmel ATSAM4Cxxx device family available in 100L LQFP (14x14x1.4mm) package.

#### Purpose: Qualification of MPHL as an additional final test site for selected Atmel ATSAM4Cxxx device family available in 100L LQFP (14x14x1.4mm) package.

#### CCB No.: 3345.001

Test Name	Test Conditions	Result
Datalog/Bin Comparison	Test the same units at existing and destination locations and compare BIN and Yield data. FT Yield and bin-to-bin difference should be 0.1% and accepted QC yield should be 100%	PASSED
Parametric Comparison	Characterize at least 33 good units at original test site to be re-characterize at destination test site	PASSED
Cross Correlation	Run at least 33 untested parts at destination test site, to be retested at original test site	PASSED
Correlation lot report	Run 1 qualification lot with 3000 units at currently qualified test site (original site – ASE9) to be retested at new test site (destination site – MPHL)	PASSED