

### Product Change Notification / GBNG-09BQZG101

### Date:

11-May-2022

### **Product Category:**

32-bit Microcontrollers

### **PCN Type:**

Manufacturing Change

### **Notification Subject:**

CCB 5083 Initial Notice: Qualification of MPHL as an additional final test site for selected ATSAMD21J17 and ATSAMD21J18 device families available in 64L VQFN (9x9x1mm) package.

### **Affected CPNs:**

GBNG-09BQZG101\_Affected\_CPN\_05112022.pdf GBNG-09BQZG101\_Affected\_CPN\_05112022.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 MPHL as an additional final test site for selected ATSAMD21J17 and ATSAMD21J18 device families available in 64L VQFN (9x9x1mm) package.

#### Pre and Post Change Summary:

Pre Change	Post Change
	Page 1 of 3

Final Te	est Site	ASE Test (ASE9)			
Base Quantity	Tray	260	260	260	
Multiple (BQM)	Tape and Reel	4000	4000	4000	
Pin 1	Tray	Near tray chamfer	Near tray chamfer	Near tray chamfer	
orientation	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1	
	Color	White	White	White	
Reel	Dimension	l changes. See attached p comparison.	re and post change		
Carrier Tape		No dimensional changes. See attached pre and post change comparison.			
Cover	Таре	No dimensional changes. See attached pre and post change comparison.			
Tra	ау	No dimensional changes. See attached pre and post change comparison.			
Packing Method See attached pre and post change comparison.				omparison.	

#### Impacts to Data Sheet:None

#### Change ImpactNone

**Reason for Change:**To improve on-time delivery performance by qualifying MPHL as an additional final test site.

#### Change Implementation Status: In Progress

#### Estimated Qualification Completion Date:June 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:

	ſ	May	2022	2		Jur	ne 20	)22	
Workweek	19	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7
Initial PCN Issue Date		х							

Qual Report Availability						х	
Final PCN Issue Date						х	
Method to Identify Change:Traceability code							

Qualification Plan: Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Plan.

Revision History: May 11, 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\_GBNG-09BQZG101\_Qual\_Plan.pdf PCN\_GBNG-09BQZG101\_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 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</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 5083 Pre and Post Change Summary PCN #: GBNG-09BQZG101



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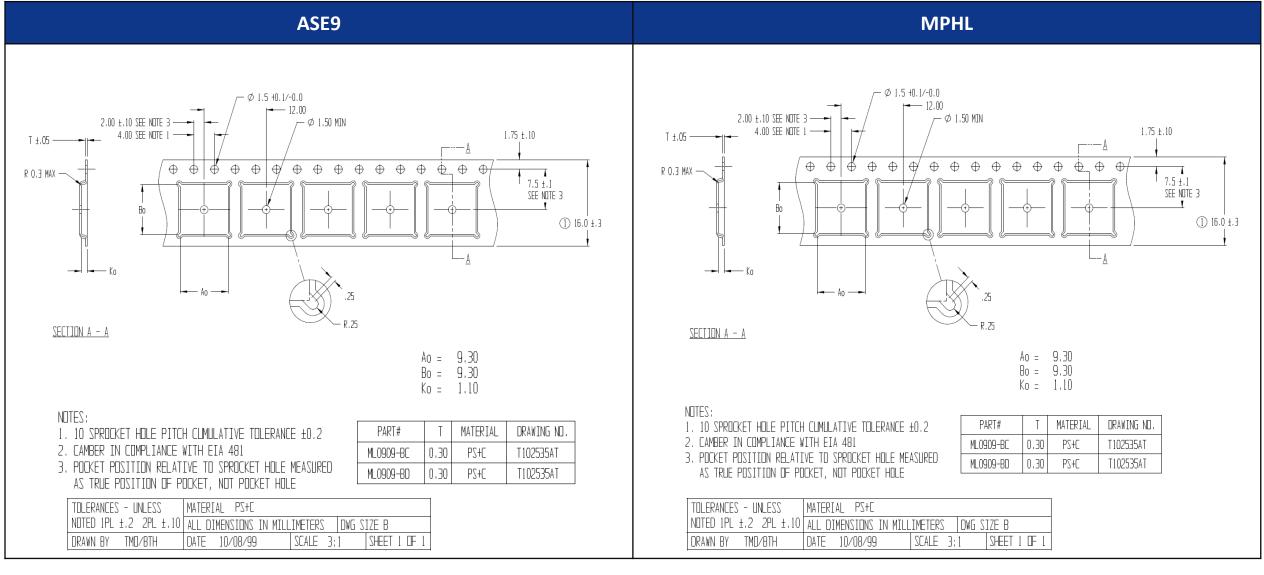


# Pre and Post Change: Tape and Reel

Final Test Location	ASE9	MPHL
BQM (Base Quantity Multiple)	4000	4000
MSL Level	3	3
Pin1 Orientation	Quadrant 1 3-(A)	Quadrant 1
Carrier Tape	W: 16 mm P1: 12mm A0: 9.3 mm B0: 9.3 mm K0: 1.1 mm	W: 16 mm P1: 12mm A0: 9.3 mm B0: 9.3 mm K0: 1.1 mm

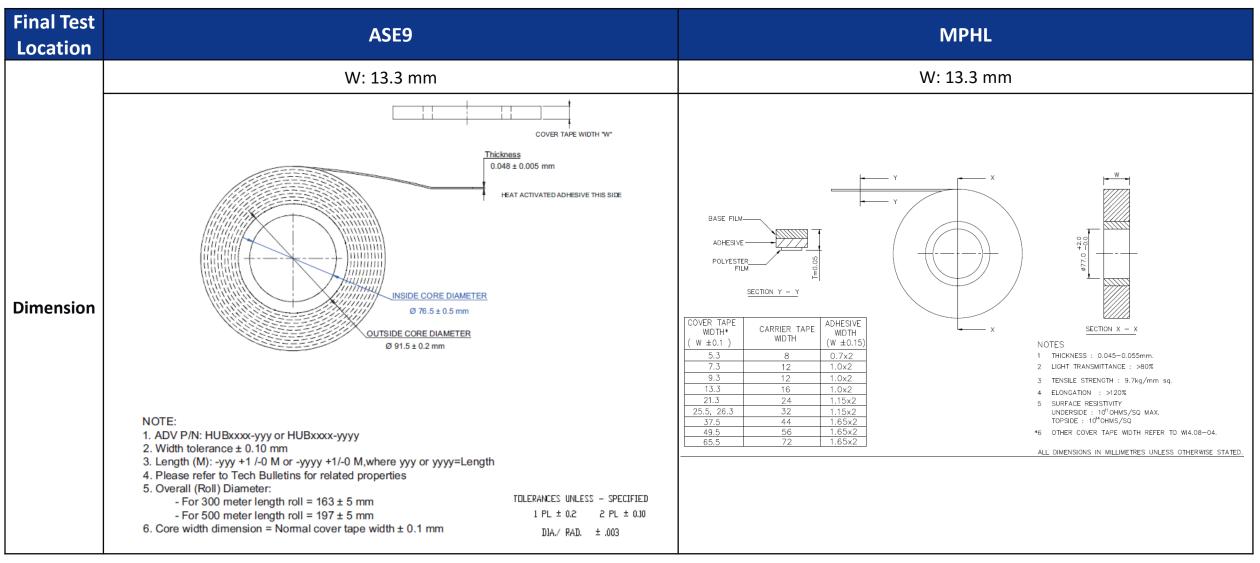


# Pre and Post Change: Carrier Tape





# **Pre and Post Change: Cover Tape**



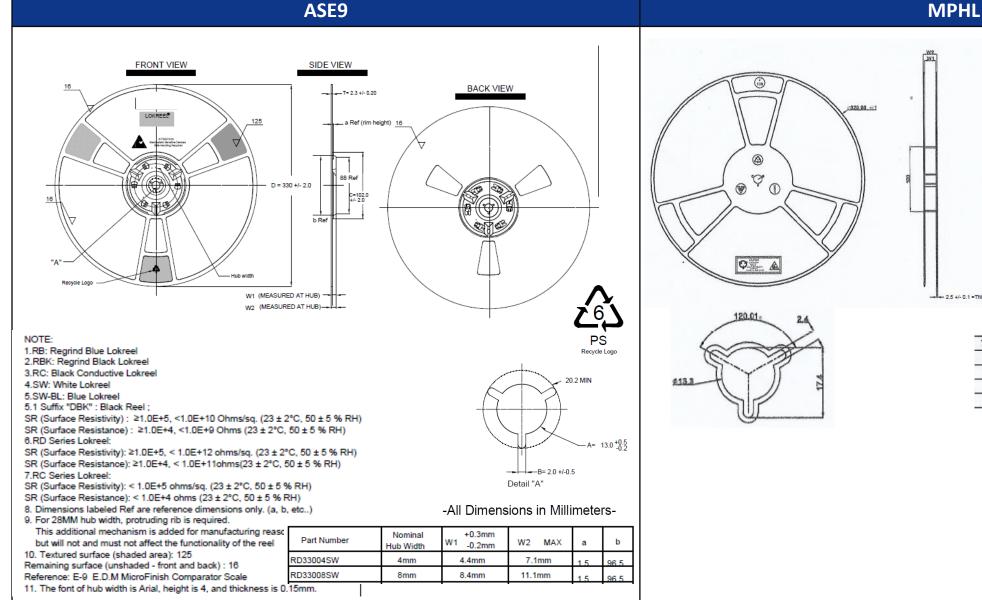


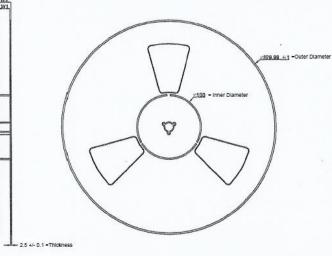
# **Pre and Post Change: Reel**

Final Test Location	ASE9	MPHL
Dimension	D: 330 mm Hub: 102mm	D: 330 mm Hub: 100mm
Color	White	White
Photo		



# **Pre and Post Change: Reel**

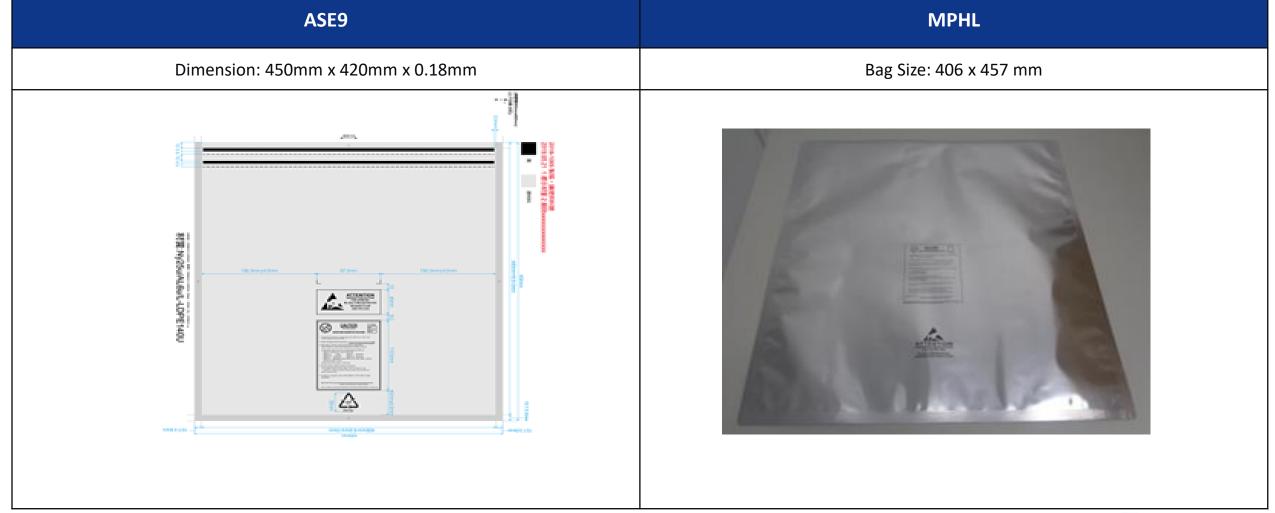




Tape Width	W1	W2
12mm	13.5 ± 0.5	17.5 ± 1.0
16mm	17.5 ± 0.5	21.5 ± 1.0
24mm	25.5 ± 0.5	29.5 ± 1.0
32mm	33.0 ± 0.5	36.5 ± 1.0



# Pre and Post Change: Tape and Reel - Antistatic Shielding Bag / Moisture Barrier Bag



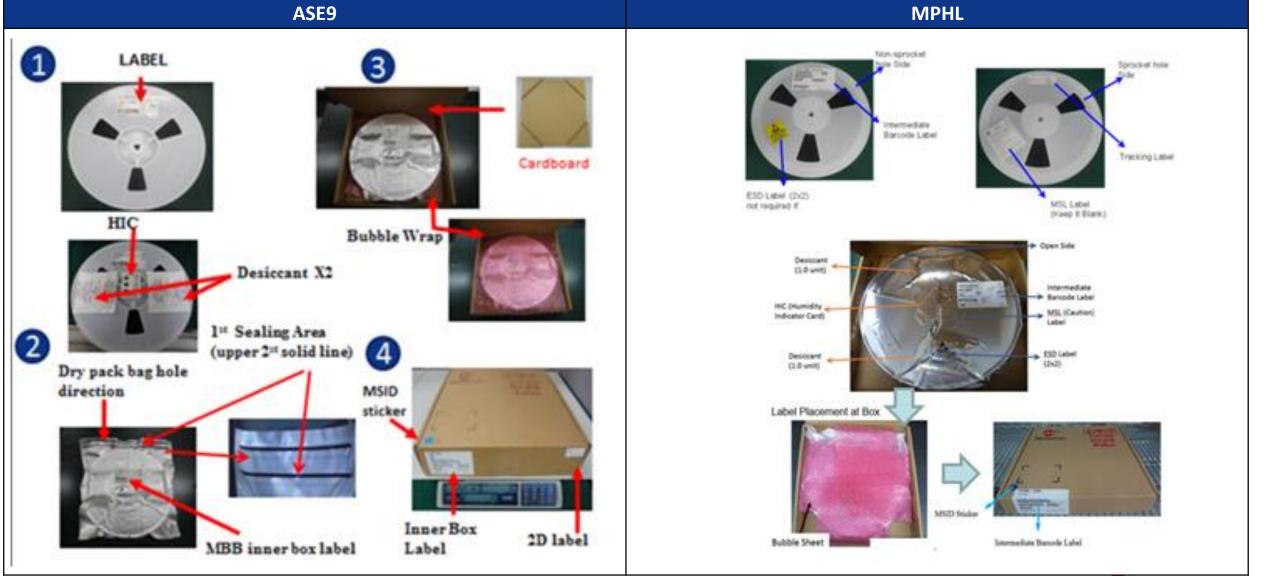


# **Pre and Post Change: Tape and Reel**

Final Test Location	ASE9	MPHL		
Desiccant				
	2 units x 2 Per MBB bag	2 pcs of 1 unit desiccant per bag		
HIC	HUMIDITY INDICATOR   Complies with IPC/JEDEC J-STD-033B   LEVEL   2 PARTS   Bake parts   60%   NOT brown   LEVEL 2A- SA PARTS   Bake parts if 10% is NOT   10%   10%   MUMISCOPE®   ITEM NO.:   HUMISCOPE®   TEM NO.:   AH310   COBALT DICHLORIDE   5%   DICHLORIDE   Fee   Initial Use : Do not put this card into a bag if 60% is pale-green.	Image: Note of the second se		



# Pre and Post Change: Tape and Reel Packing Method



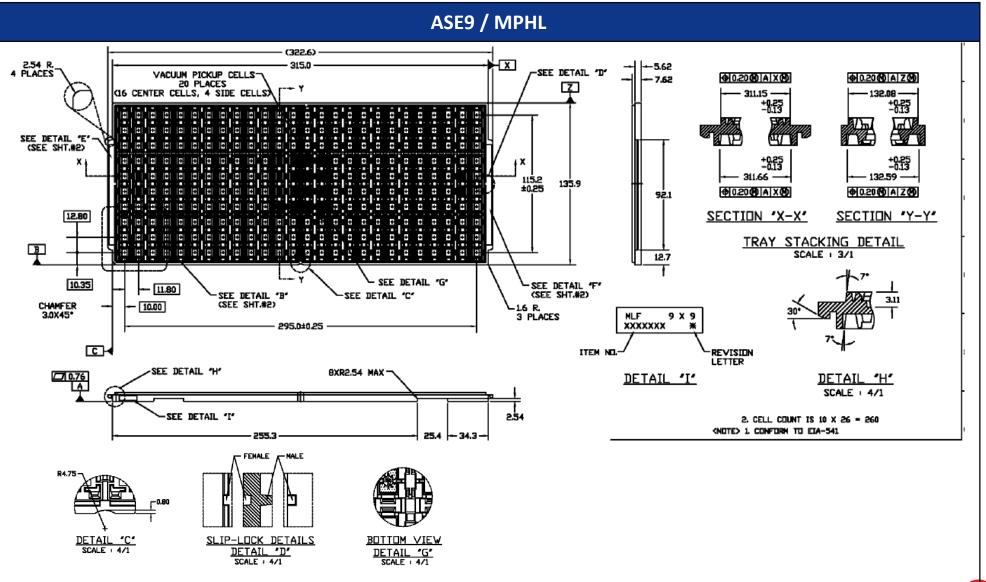


# **Pre and Post Change: Tray**

Final Test Location	ASE9	MPHL
BQM (Base Quantity Multiple)	260	260
MSL Level	3	3
Pin1 Orientation	1-(D) FIG-1 Commer Commer HAR Near Tray Chamfer	1-(D) FIG-1 Charter Charter Near Tray Chamfer
Тгау	Tray Length qty: 26 Tray Width qty: 10 Pocket on Tray: 260 (BQM) Tray Stack: 10 + 1 (10 + Cover)	Tray Length qty: 26 Tray Width qty: 10 Pocket on Tray: 260 (BQM) Tray Stack: 10 + 1 (10 + Cover)



# **Pre and Post Change: Tray**



**Міскосні**р

# **Pre and Post Change: Tray**

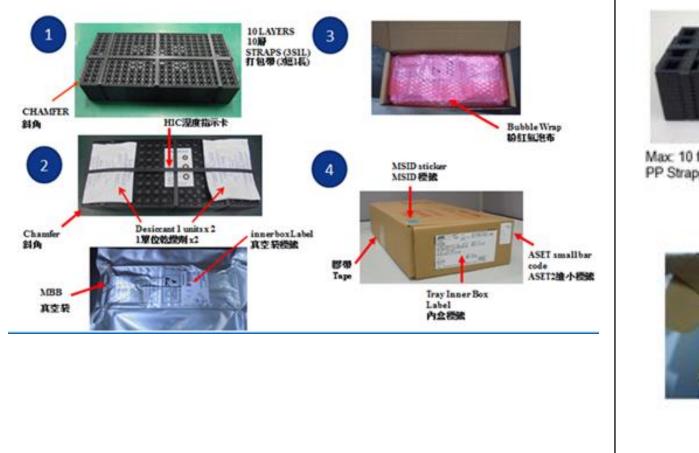
Final Test Location	ASE9	MPHL
Antistatic Shielding Bag / Moisture Barrier Bag		
Desiccant	LUNITY NORMAL STATES AND	The second distance of
Вох	る。 Місноснір Місноснір あの нотокор 禁止持落 ห้ามโยน	でで Місноснір あのいот DROP 禁止持落 がっこれていいの
	371.5mmx162mmx88mm	371mm x 162mm x 88 mm



## **Pre and Post Change: Tray Packing Method**

#### ASE9

#### MPHL









## **QUALIFICATION PLAN SUMMARY**

### PCN #: GBNG-09BQZG101

Date March 22, 2022

Qualification of MPHL as an additional final test site for selected ATSAMD21J17 and ATSAMD21J18 device families available in 64L VQFN (9x9x1mm) package. Purpose:Qualification of MPHL as an additional final test site for selected ATSAMD21J17 and<br/>ATSAMD21J18 device families available in 64L VQFN (9x9x1mm) package.CCB No.:5083

Test / Evaluation	Test Conditions / Parameters
Bin Comparison	
Yield Comparison	3,000 units matching to 0.1% yield and 33 (10% correlated) units of parametric data comparison
Parametric Comparison	

Affected Catalog Part Numbers (CPN)

ATSAMD21J17A-MF ATSAMD21J18A-MF ATSAMD21J17A-MU ATSAMD21J18A-MU ATSAMD21J18A-MUA1 ATSAMD21J17A-MUA1 ATSAMD21J17A-MU-SLL ATSAMD21J18A-MU-SLL ATSAMD21J18A-MUTA1 ATSAMD21J18A-MUTA1 ATSAMD21J17A-MUTA1 ATSAMD21J17A-MUTA1 ATSAMD21J17A-MFT ATSAMD21J18A-MFT