

Product Change Notification / LIAL-07NEIG824

Date:

29-Jun-2022

Product Category:

32-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5134 Final Notice: Qualification of MPHL as an additional final test site for selected ATSAMD20J14, ATSAMD20J15, ATSAMD20J16, ATSAMD20J17 and ATSAMD20J18 device families available in 64L VQFN (9x9x1mm) package.

Affected CPNs:

LIAL-07NEIG824_Affected_CPN_06292022.pdf LIAL-07NEIG824_Affected_CPN_06292022.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 ATSAMD20J14, ATSAMD20J15, ATSAMD20J16, ATSAMD20J17 and ATSAMD20J18 device families available in 64L VQFN (9x9x1mm) package.

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	Tray	260	260	260
Quantity 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	Minor dimensional changes. See attached pre and post change comparison.		
Carri	er Tape	No dimensional changes. See attached pre and post change comparison.		
Cover Tape		No dimensional changes. See attached pre and post change comparison.		
Т	ray	No dimensional changes. See attached pre and post change comparison.		
Packing	g Method	See attached	I pre and post chang	e 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: July 01, 2022 (date code: 2227)

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

Time Table Summary:

June 2022	July 2022

Workweek	23	24	25	26	27	28	29	30	31
Initial PCN Issue Date		х							
Qual Report Availability					х				
Final PCN Issue Date					х				
Estimated Implementation Date					х				

Method to Identify Change: Traceability code

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

Revision History: June 10, 2022: Issued initial notification.

June 29, 2022: Issued final notification. Attached the qualification report and added estimated first ship date by July 01, 2022.

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

Attachments:

PCN_LIAL-07NEIG824 Pre and Post Change Summary.pdf PCN_LIAL-07NEIG824_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 <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, 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.



QUALIFICATION REPORT SUMMARY

PCN #: LIAL-07NEIG824

Date March 22, 2022

Qualification of MPHL as an additional final test site for selected ATSAMD20J14, ATSAMD20J15, ATSAMD20J16, ATSAMD20J17 and ATSAMD20J18 device families available in 64L VQFN (9x9x1mm) package.

- Purpose: Qualification of MPHL as an additional final test site for selected ATSAMD20J14, ATSAMD20J15, ATSAMD20J16, ATSAMD20J17 and ATSAMD20J18 device families available in 64L VQFN (9x9x1mm) package
- **CCB No.:** 5134

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

CCB# 5134 Pre and Post Change Summary PCN #: LIAL-07NEIG824

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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
	Quadrant 1	Quadrant 1
Pin1 Orientation	3-(A)	
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

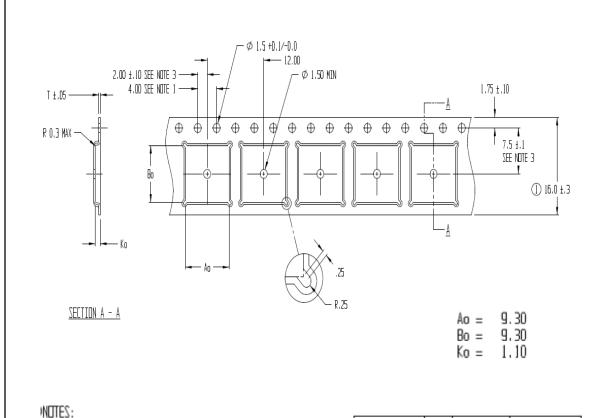


Pre and Post Change: Carrier Tape

ASE9

MPHL

/─ Ø 1.5 +D.1/-D.0



1. 10 SPROCKET HOLE PITCH CLMULATIVE TOLERANCE ±0.2

3. POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED

AS TRUE POSITION OF POCKET, NOT POCKET HOLE

2. CAMBER IN COMPLIANCE WITH EIA 4B1

PART#

HLD909-8C

HLD909-8D

MATERIAL

PS+C

D+29

0.30

0.30

DRAWING NO.

T102535AT

T102535AT

	- - -1 / h	12.00		
		Ø 1.50 MIN		1 70 + 10
T±.05	IO SEE NOTE J		<u> </u>	l.75 ±.10
II A				· · · · ·
R 0.3 MAX -	$(\oplus \oplus \oplus \oplus \oplus \oplus]$		$\oplus \oplus \oplus \oplus \oplus \oplus$	
				7.5 ±.1 SEE NOTE 3
		└── ── ∲── ── ∲──	·	1
				() 16.0 ±.3
		/	L_A	
Ko				
	Ao	.25		
		R.25		0
<u>SECTION A - A</u>			Ao = 9.3	
			Bo = 9.3	
			Ko = 1.1	0

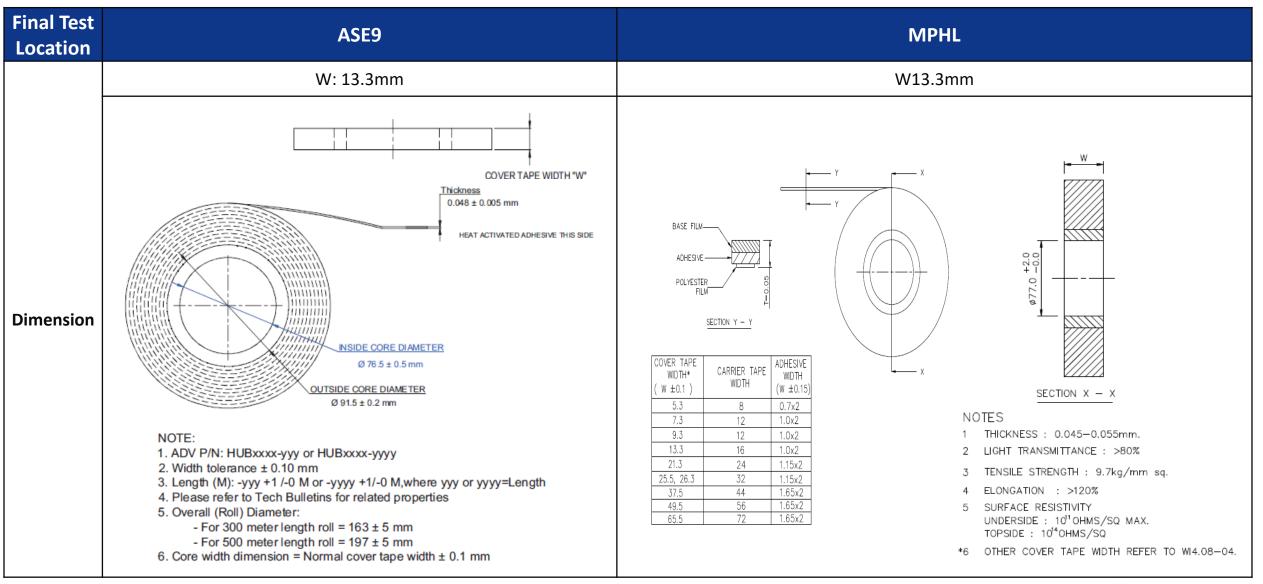
NETTES:

1. 10 SPROCKET HOLE PITCH CLMULATIVE TOLERANCE ±0.2					
2. CAMBER IN COMPLIANCE WITH EIA 4B1					
3. POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED					
AS TRUE POSITION OF POCKET, NOT POCKET HOLE					

PART#	T	MATERIAL	DRAWING NO.
HLD909-BC	0.30	PS+C	T102535AT
ML0909-80	0.30	PS+C	T102535AT



Pre and Post Change: Cover Tape



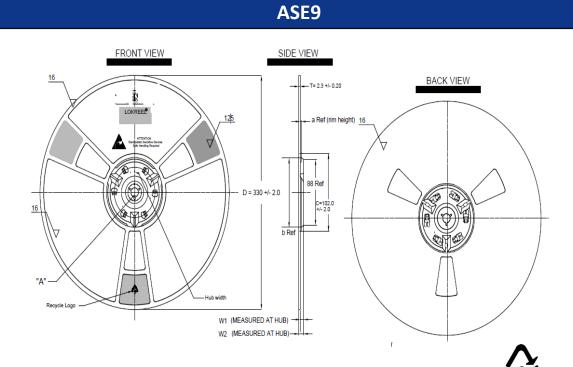


Pre and Post Change: Reel

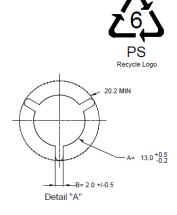
Final Test Location	ASE9	MPHL
Dimension	D: 330 mm Hub: 102mm	D: 330 mm Hub: 100mm
Color	White	White
Photo		

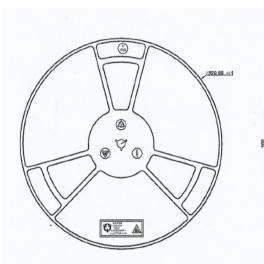


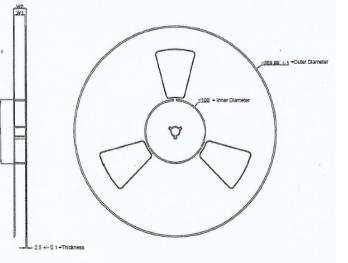
Pre and Post Change: Reel



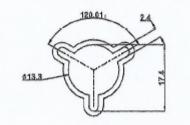
Part Number	Nominal Hub Width	+0.3mm W1 -0.2mm	W2 MAX	а	b
RD33004SW	4mm	4.4mm	7.1mm	15	96.5
RD33008SW	8mm	8.4mm	11.1mm	15	96.5







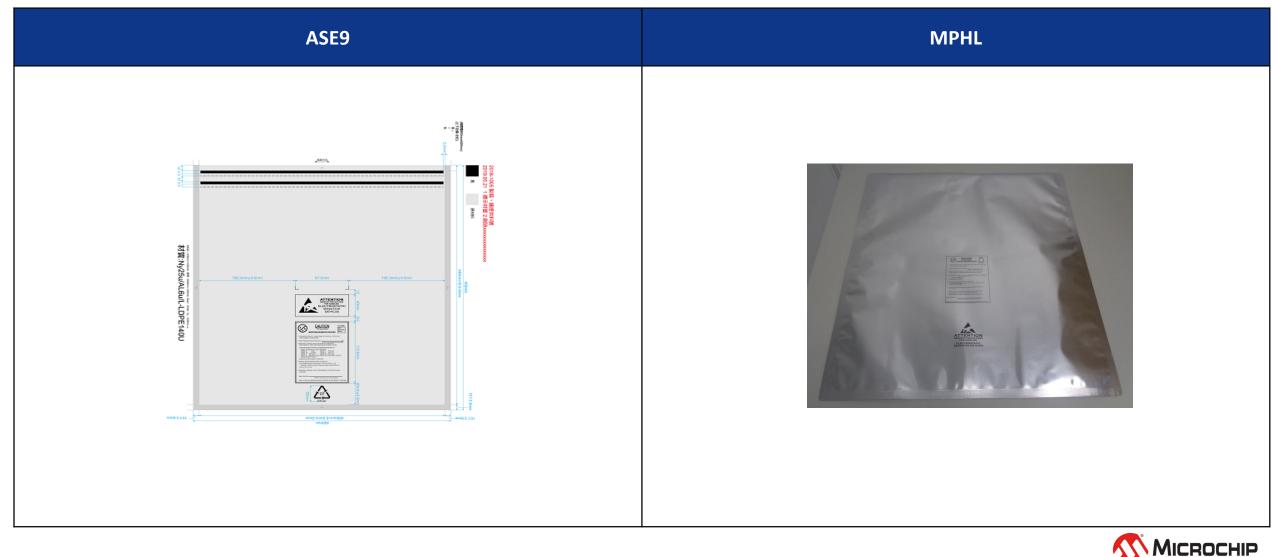
MPHL



1/4

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

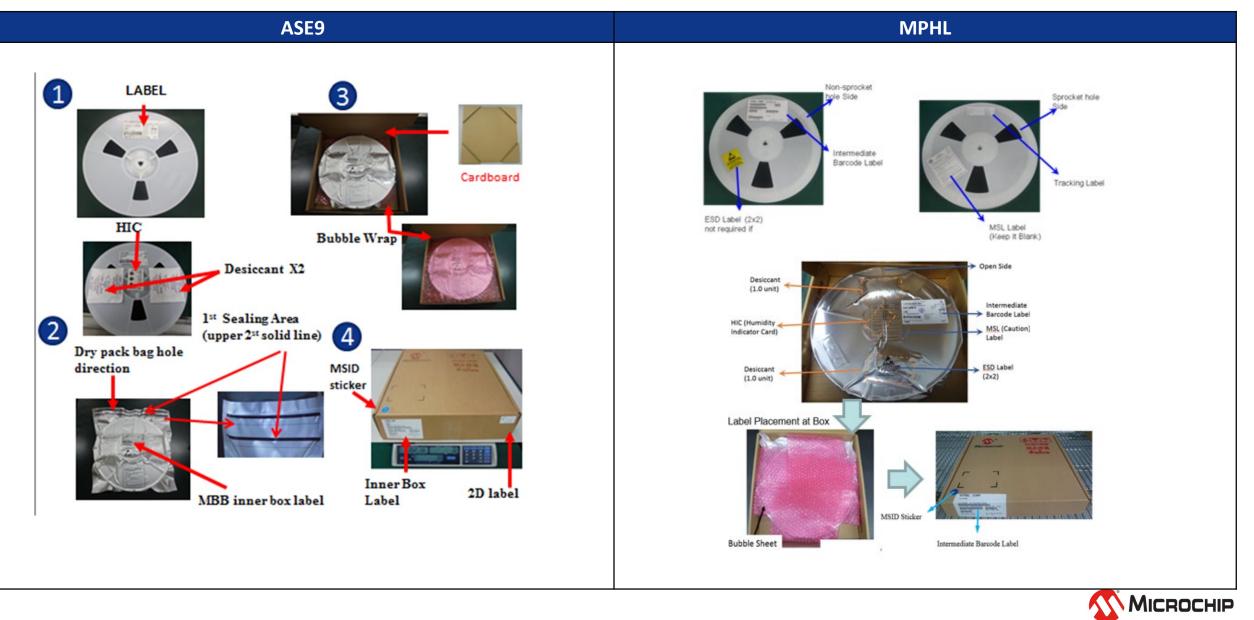


Pre and Post Change: Tape and Reel

Final Test Location	ASE9	MPHL		
Desiccant		BOLUPAKT		
	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 if 60% is NOT brown LEVEL 2A- SA PARTS Bake parts if 10% Down and 5% is pale-green HUMISCOPE® TEM NO : AH310 COBALT DichLoride Free 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



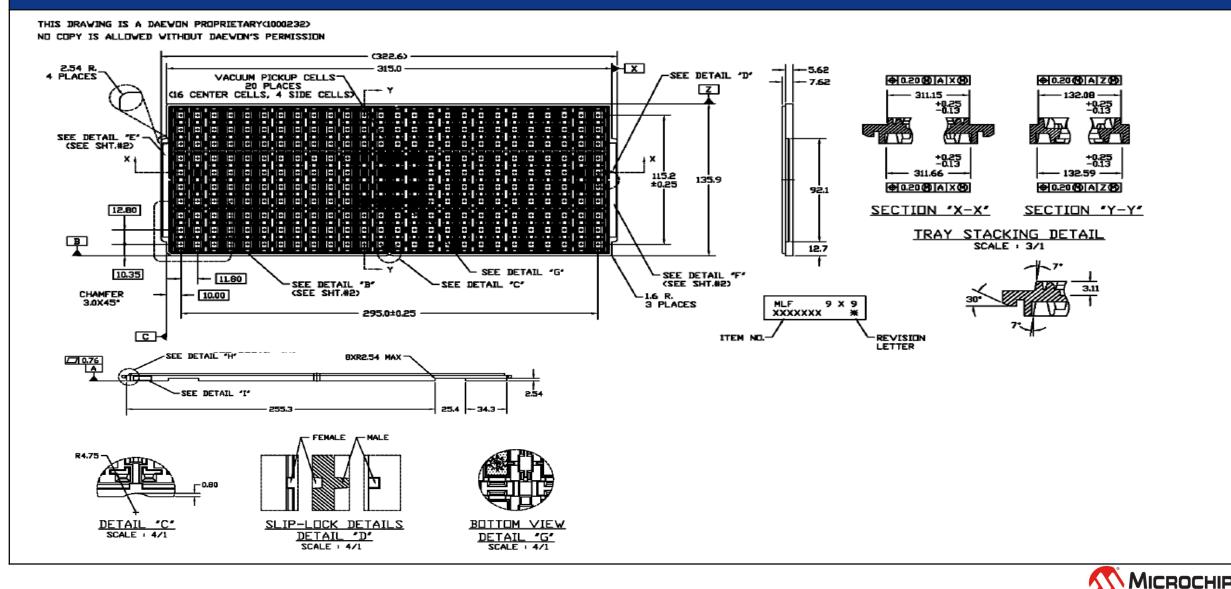
Pre and Post Change: Tray

Final Test Location	ASE9	MPHL
BQM (Base Quantity Multiple)	260	260
MSL Level	3	3
Pin1 Orientation	1-(D) Fig-1 Chamfer Package Pint Fig-1 Package Pint Fig-1 Package Pint Fig-1 Package Pint Fig-1 Near Tray Chamfer	1-(D) FIG-1 Charffer Charffer
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)

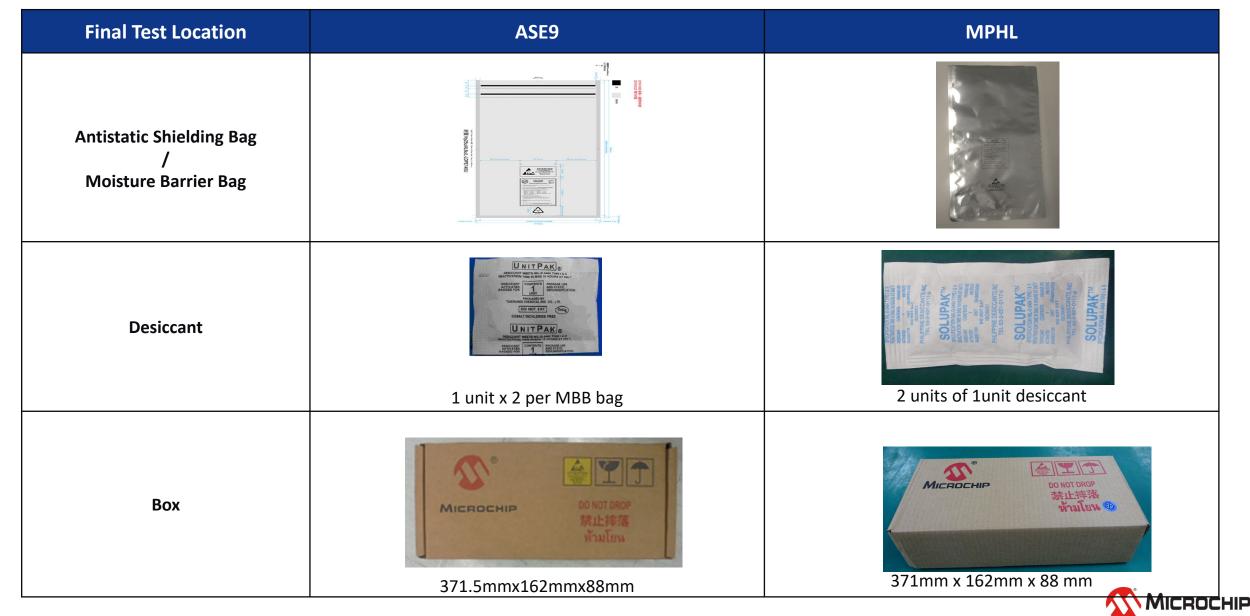


Pre and Post Change: Tray

ASE9 / MPHL



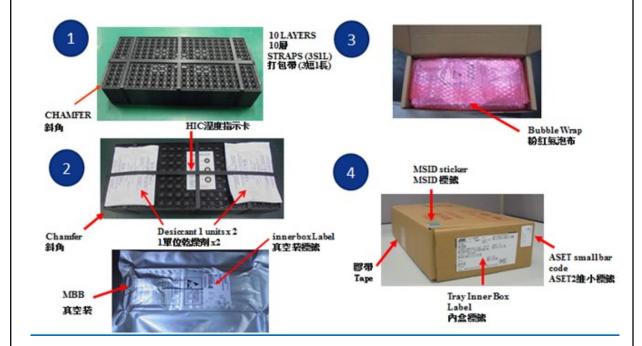
Pre and Post Change: Tray



Pre and Post Change: Tray Packing Method

ASE9







Max: 10 full trays + 1 empty tray cover PP Strapping: 3 crosswise & 1 lengthwise







Intermediate Label



LIAL-07NEIG824 - CCB 5134 Final Notice: Qualification of MPHL as an additional final test site for selected ATSAMD20J14, ATSAMD20J15, ATSAMD20J16, ATSAMD20J17 and ATSAMD20J18 device families available in 64L VQFN (9x9x1mm) package.

Affected Catalog Part Numbers (CPN)

ATSAMD20J14A-MU ATSAMD20J15A-MU ATSAMD20J16A-MU ATSAMD20J17A-MU ATSAMD20J18A-MU ATSAMD20J18A-MUA2 ATSAMD20J17A-MUA2 ATSAMD20J16A-MUA2 ATSAMD20J15A-MUA2 ATSAMD20J14A-MUA2 ATSAMD20J17A-MUN01 ATSAMD20J14A-MN ATSAMD20J18A-MN ATSAMD20J15A-MN ATSAMD20J16A-MN ATSAMD20J17A-MN ATSAMD20J18A-MNT ATSAMD20J14A-MNT ATSAMD20J15A-MNT ATSAMD20J16A-MNT ATSAMD20J17A-MNT ATSAMD20J14A-MUT ATSAMD20J15A-MUT ATSAMD20J16A-MUT ATSAMD20J17A-MUT ATSAMD20J18A-MUT ATSAMD20J18A-MUTA2 ATSAMD20J16A-MUTA2 ATSAMD20J15A-MUTA2 ATSAMD20J14A-MUTA2 ATSAMD20J17A-MUTA2