

#### **Product Change Notification / RMES-20LCEZ199**

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02-Aug-2023

#### **Product Category:**

8-bit Microcontrollers

#### **PCN Type:**

Manufacturing Change

#### **Notification Subject:**

CCB 6369 Initial Notice: Qualification of ASE9 as a new final test site for selected ATMEGA16xx, ATMEGA32xx, ATMEGA644xx, and ATMEGA85xx device families available in 44L TQFP (10x10x1mm) package.

#### **Affected CPNs:**

RMES-20LCEZ199\_Affected\_CPN\_08022023.pdf RMES-20LCEZ199\_Affected\_CPN\_08022023.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 ASE9 as a new final test site for selected ATMEGA16xx, ATMEGA32xx, ATMEGA644xx, and ATMEGA85xx device families available in 44L TQFP (10x10x1mm) package.

#### **Pre and Post Change Summary:**

			Pre Change	Post Change		
F	Final Test Site		Lingsen Precision Industries, LTD. (LPI)	ASE Test (ASE9)		
	Quantity le (BQM)		2000	2000		
Pin 1 O	rientation	Tape	Quadrant 1	Quadrant 1		
Carri	Carrier Tape		No dimensional changes. See Pre and Post Change Summary for comparison.			
Dool	Dimension	Reel	No dimen	sional changes.		
Reel	Color		White	White		
Packing	ing Method		See Pre and Post Change Summary for comparison.			
	Quantity le (BQM)		160	160		
Pin 1 O	in 1 Orientation Tray		Near Tray Chamfer	Near Tray Chamfer		
Packing	g Method		See Pre and Post Change Summary for comparison.			

#### Impacts to Data Sheet:None

Change ImpactNone

**Reason for Change:**To improve productivity by qualifying ASE9 as a new final test site.

**Change Implementation Status:**In Progress

**Estimated Qualification Completion Date:**November 2023

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:

	July 2023					>	N	lovei	mbei	202	3
Workweek	27	2 8	2 9	3 0	3 1		4	4 5	4 6	4 7	4 8
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: July 25, 2023: Issued initial notification.

**August 02**, **2023**: Re-issued initial notification to correct the typo error for LPI carrier tape data. Updated the PCN letter and ppt file to reflect that there are no dimensional changes in carrier tape.

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-20LCEZ199\_Pre\_and\_Post\_Change\_\_Summary.pdf PCN\_RMES-20LCEZ199\_Qual\_Plan.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.

RMES-20LCEZ199 - CCB 6369 Initial Notice: Qualification of ASE9 as a new final test site for selected ATMEGA16xx, ATMEGA32xx, ATMEGA644xx, and ATMEGA85xx device families available in 44L TQFP (10x10x1mm) package.

#### Affected Catalog Part Numbers (CPN)

ATMEGA164A-AUA2

ATMEGA164A-AURA2

ATMEGA16-16AU

ATMEGA16L-8AU

ATMEGA16-16AUR

ATMEGA16L-8AUR

ATMEGA32-16AU

ATMEGA32L-8AU

ATMEGA32A-AURA5

ATMEGA32L-8AUR

ATMEGA32-16AUR

ATMEGA164PA-AN

ATMEGA164PA-ANR

ATMEGA644PA-AN

ATMEGA644PA-ANR

ATMEGA16-16AUA6

ATMEGA16L-8AQ

ATMEGA16L-8AQRA5

ATMEGA16L-8AQR

ATMEGA16L-8AURA0

ATMEGA16L-8AURA5

ATMEGA16-16AURA5

ATMEGA8515-16AUR

ATMEGA8535-16AU

ATMEGA8535L-8AU

ATMEGA8535-16AUR

ATMEGA8535L-8AUR

ATMEGA32L-8AURA0

ATMEGA32L-8AURA2

ATMEGA32L-8AURA4

ATMEGA644-20AU

ATMEGA644V-10AU

ATMEGA644-20AUR

ATMEGA644V-10AUR

ATMEGA324P-20AURA0

ATMEGA644PV-10AU

ATMEGA644P-20AU

ATMEGA644PV-10AUR

ATMEGA644P-20AUR

Date: Tuesday, August 01, 2023



#### **QUALIFICATION PLAN SUMMARY**

PCN #: RMES-20LCEZ199

Date: June 2, 2023

Qualification of ASE9 as a new final test site for selected ATMEGA16xx, ATMEGA32xx, ATMEGA644xx, and ATMEGA85xx device families available in 44L TQFP (10x10x1mm) package.

Purpose: Qualification of ASE9 as a new final test site for selected ATMEGA16xx,

ATMEGA32xx, ATMEGA644xx, and ATMEGA85xx device families

available in 44L TQFP (10x10x1mm) package.

CCB: 6369

Test Name	Test Conditions
Site by Site Verification	Verifies the channel map has the correct site assignments and tester/handler communications work correctly.
Test Stability	<ul><li>50 loop test performed with no datalog delays.</li><li>Accept on 0 fails</li></ul>
Correlation Lot Report	Yield at each step and reject analysis between systems.  • Accept on yield match within 2%

### **CCB 6369**

# Pre and Post Change Summary PCN #: RMES-20LCEZ199



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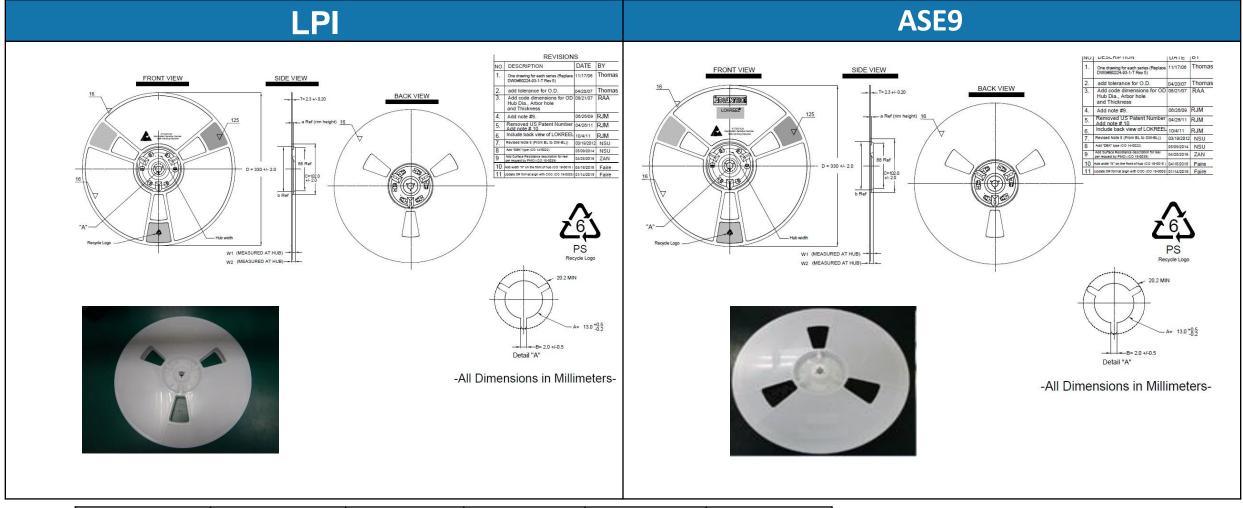


	LPI	ASE9
BQM (Base Quantity Multiple)	2000 units per tray	2000 units per tray
Pin 1 orientation	Quadrant 1	Quadrant 1



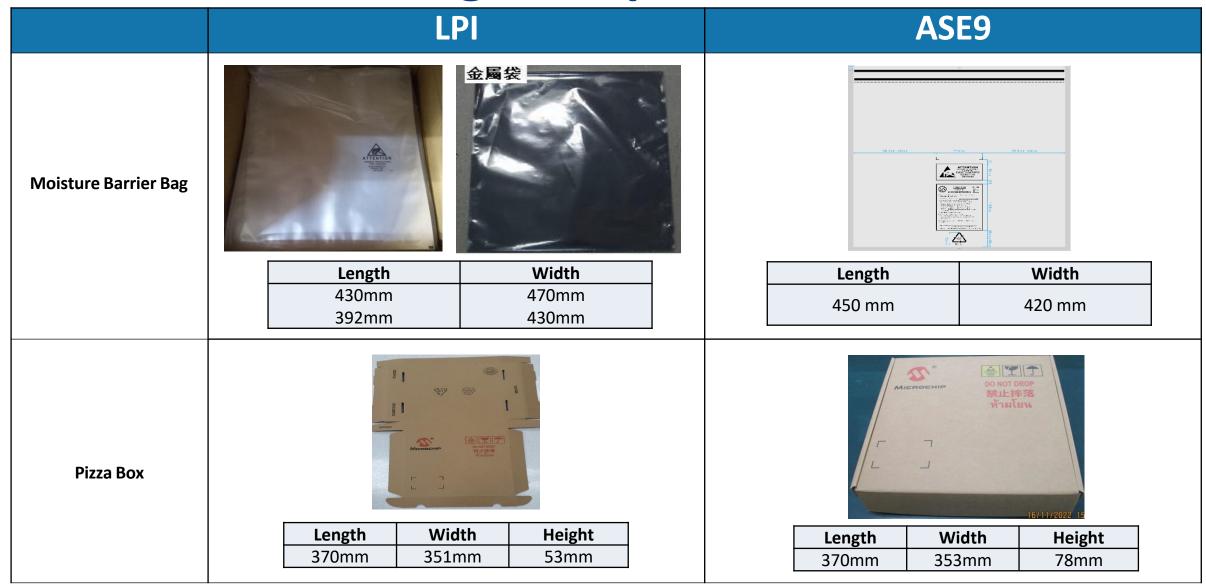
	LPI						ASE9					
Carrier Tape	Width	Pitch	A0	BO	K0	Width	Pitch	A0	B0	K0		
Garrier rape	24mm	16mm	12.35mm	12.35mm	1.65mm	24mm	16mm	12.35mm	12.35mm	1.65mm		





Final Test Site	Color	Diameter	Hub Dia	W1	W2
LDI	\A/bita	220	102	8.4mm	11.1mm
LPI	White	330	102mm	16.4mm	19.1mm
ACEO	White	<b>330</b> 1	102000	8.4mm	11.1mm
ASE9	White		102mm	16.4mm	19.1mm







## **Pre and Post Change - Tray**

	LPI	ASE9
BQM (Base Quantity Multiple)	160 units per tray	160 units per tray
Pin 1 orientation	Chamfer Side	1-(D) Package PN 1  Chamfer Side



## **Pre and Post Change - Tray**

		ASE9							
Moisture Barrier Bag									
Inner Box	178.40)	To seeming the service of the servic	ATT.				The state of the s		
	Length	Width	Height			Length	Width	Height	
	37.15mm	162mm	88mm			37.15mm	162mm	88mm	

