

Product Change Notification / RMES-20LCEZ199

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12-Feb-2024

Product Category:

8-Bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 6369 Final 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_02122024.pdf RMES-20LCEZ199_Affected_CPN_02122024.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 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
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	Final Test Site		Lingsen Precision Industries, LTD. (LPI)	ASE Test (ASE9)			
	Base Quantity Multiple (BQM)		2000	2000			
Pin 1 Or	ientation		Quadrant 1	Quadrant 1			
Carrier Tape		Tape and Reel	No dimensional changes. See Pre and Post Change Summary for comparison.				
Reel	Dimension		No dimensional changes.				
Keei	Color		White	White			
Packing	Method		See Pre and Post Change Summary for comparison.				
	Base Quantity Multiple (BQM)		160	160			
Pin 1 Or	Pin 1 Orientation		Near Tray Chamfer	Near Tray Chamfer			
Packing	Packing Method		See Pre and Post Change Summary for comparison.				

Impacts to Data Sheet:None

Change Impact:None

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

Change Implementation Status:In Progress

Estimated First Ship Date: April 01, 2024 (date code: 2414)

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

Time Table Summary:

		July 2023			>	I	Febru	uary	2024	1	>		Аp	ril 20)24		
Workweek	2 7	2 8	2 9	3 0	3 1		0 5	0 6	0 7	0 8	0 9		1 4	1 5	1 6	1 7	1 9
Initial PCN Issue Date				Х													
Qual Report Availability									Х								
Final PCN Issue Date									х								
Estimated Implementation													Х				

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Date										١

Method to Identify Change: Traceability code

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

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.

February 12, 2024: Issued final 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_RMES-20LCEZ199_Pre_and_Post_Change__Summary.pdf PCN_RMES-20LCEZ199_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</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 Final 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

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



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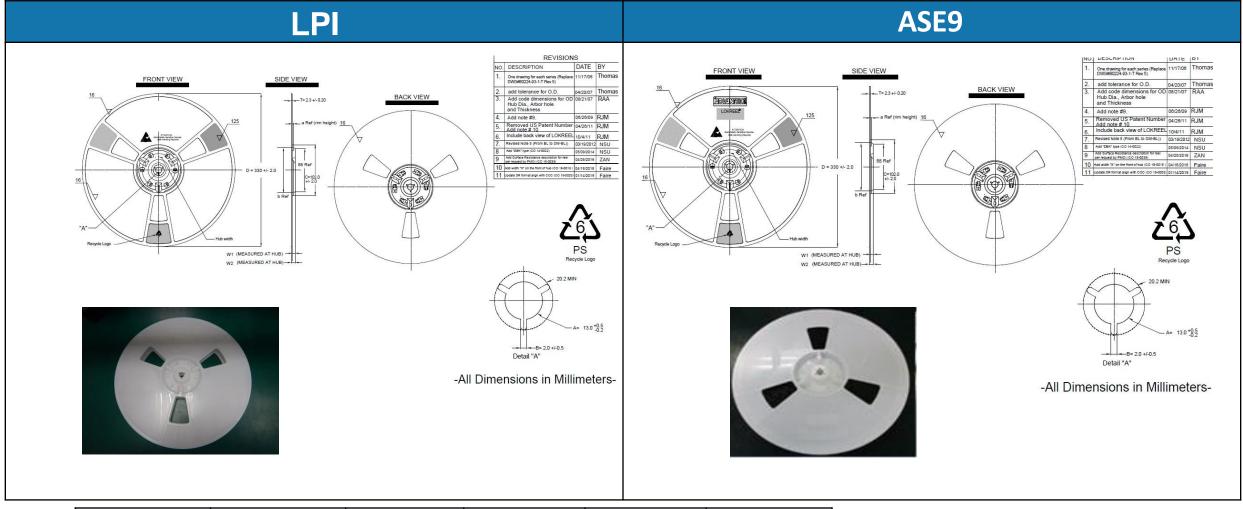


	LPI	ASE9
BQM (Base Quantity Multiple)	2000 units per tray	2000 units per tray
Pin 1 orientation	Quadrant 1	Quadrant 1



		LPI					ASE9						
Carrier Tape	Width	Pitch	A0	В0	КО	Width	Pitch	A0	В0	КО			
currer rupe	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/bito	220	102	8.4mm	11.1mm
LPI	White	330	102mm	16.4mm	19.1mm
ACEO	\A/bita	220	102	8.4mm	11.1mm
ASE9	White	330	102mm	16.4mm	19.1mm



	LPI	ASE9
Moisture Barrier Bag	Length Width 430mm 430mm 430mm	Length Width 450 mm 420 mm
Pizza Box	Length Width Height 370mm 351mm 53mm	Length Width Height 370mm 353mm 78mm



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 PRN 1 Chamfer Side



Pre and Post Change - Tray

		LPI				ASE9		
Moisture Barrier Bag		A CONTRACTOR OF THE PARTY OF TH						
Inner Box	138. (D) F:	PARTIES AND THE PARTIES AND TH				The second secon		
	Length	Width	Height		Length	Width	Height	
	37.15mm	162mm	88mm		37.15mm	162mm	88mm	





QUALIFICATION REPORT SUMMARY

PCN #: RMES-20LCEZ199

Date: February 02, 2024

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	Result
Datalog/Bin Comparison	 Compare test numbers, test names, test sequence bin assignments & pass/fail results. Accept if all match or justify the differences 	PASSED
Site by Site Verification	 Verifies the channel map has the correct site assignments and tester/handler communications work correctly. 	PASSED
Test Stability	50 loop test performed with no datalog delays.Accept on 0 fails	PASSED
Correlation Lot Report	Yield at each step and reject analysis between systems.Accept on yield match within 2%	PASSED