



## Product Change Notification / JAON-18YDKI646

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### Date:

09-Jun-2023

### Product Category:

Broadband Gateway

### PCN Type:

Manufacturing Change

### Notification Subject:

CCB 5014.002 and CCB 6268 Final Notice: Qualification of a new die size (1.932x1.860mm) for Die #1 of selected Microsemi LE9641PQC, LE9651PQC, LE9641PQCT, and LE9651PQCT catalog part numbers (CPN) available in 48L VQFN (7x7x1.0mm) package assembled at MTAI assembly site.

### Affected CPNs:

[JAON-18YDKI646\\_Affected\\_CPN\\_06092023.pdf](#)

[JAON-18YDKI646\\_Affected\\_CPN\\_06092023.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 a new die size (1.932x1.860mm) for Die #1 of selected Microsemi LE9641PQC, LE9651PQC, LE9641PQCT, and LE9651PQCT catalog part numbers (CPN) available in 48L VQFN (7x7x1.0mm) package assembled at MTAI assembly site.

### Pre and Post Change Summary:

		Pre Change		Post Change	
Fabrication Location	Die # 1	Global Foundries, Singapore - Fab 7 (GF07)		Global Foundries, Singapore - Fab 7 (GF07)	
	Die # 2	Global Foundries, Singapore - Fab 2 (GF02)	Microchip Technology Colorado – Fab 5 (MCSO)	Global Foundries, Singapore - Fab 2 (GF02)	Microchip Technology Colorado – Fab 5 (MCSO)
Die Size	Die # 1	2.204 x 2.258 mm		1.932x1.860mm	
		Please see attached pre and post change comparison for Die # 1 Location			
	Die # 2	1.57 x 1.72 mm		1.57 x 1.72 mm	
Assembly Site		Microchip Technology Thailand (HQ) (MTAI)		Microchip Technology Thailand (HQ) (MTAI)	
Wire Material		CuPdAu		CuPdAu	
Die Attach Material		3280		3280	
Molding Compound Material		G700LTD		G700LTD	
Lead Frame Material		A194		A194	

**Impacts to Data Sheet:**None

**Change Impact:**None

**Reason for Change:**To improve productivity by qualifying a new die size.

**Change Implementation Status:**In Progress

**Estimated First Ship Date:**June 25, 2023 (date code: 2326)

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

**Time Table Summary:**

	May 2022					June 2023			
Workweek	1 9	2 0	2 1	2 2	>	2 3	2 4	2 5	2 6
Initial PCN Issue Date				X					
Qual Report Availability						X			

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:**

**May 24, 2022:** Issued initial notification with reference CCB 5014.002.

**June 09, 2023:** Issued final notification. Added reference CCB 6268 in notification subject. Attached is the qualification report and added estimated first ship by June 25, 2023.

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

#### **Attachments:**

[PCN\\_JAON-18YDKI646\\_Qual\\_Report.pdf](#)

[PCN\\_JAON-18YDKI646\\_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 receive Microchip PCNs via email 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 change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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Affected Catalog Part Numbers (CPN)

LE9641PQC

LE9651PQC

LE9641PQCT

LE9651PQCT