



Product Change Notification / KSRA-15DGBH859

Date:

08-Mar-2021

Product Category:

Car Access

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3762 Final Notice: Qualification of MMT as an additional assembly site for ATA5291x device family available in 48L VQFN (7x7x1mm) package.

Affected CPNs:

[KSRA-15DGBH859_Affected_CPN_03082021.pdf](#)
[KSRA-15DGBH859_Affected_CPN_03082021.csv](#)

Notification Text:**PCN Status:**

Final notification

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of MMT as an additional assembly site for ATA5291x device family available in 48L VQFN (7x7x1mm) package.

Pre Change:

Assembled at ASCL using palladium coated copper (PdCu) bond wire and EN-4900 die attach material without lead lock

Post Change:

Assembled at ASCL using palladium coated copper (PdCu) bond wire and EN-4900 die attach material without lead lock

or

Assembled at MMT using palladium coated copper wire with gold flash (CuPdAu) bond wire and 3280 die attach material with lead lock

Pre and Post Change Summary:

	Pre Change	Post Change	
Assembly Site	ASE Group Chung-Li / ASCL	ASE Group Chung-Li / ASCL	Microchip Technology Thailand (Branch) / MMT
Wire material	PdCu	PdCu	CuPdAu
Die attach material	EN-4900	EN-4900	3280
Molding compound material	G700	G700	G700
Lead frame material	A194	A194	A194
Lead Lock	No	No	Yes

Impacts to Data Sheet:

Yes. POD (package outline drawing) change. See the changes below:

All units in millimeter (mm)		ASE Group Chung-Li / ASCL			Microchip Technology Thailand (Branch) / MMT		
Dimension Limits		MIN	NOM	MAX	MIN	NOM	MAX
Number of Terminals	N	48			48		
Pitch	e	0.5			0.50 BSC		
Overall Height	A	0.80	0.85	0.9	0.80	0.90	1.00
Standoff	A1	0.00	0.035	0.05	0.00	0.035	0.05
Terminal Thickness	A3	0.16	0.21	0.26	0.203 REF		
Wettable Flank Step Cut Depth	A4	-	-	-	0.10	-	0.19
Overall Length	D	6.90	7.00	7.10	7.00 BSC		
Exposed Pad Length	D2	5.50	5.60	5.70	5.50	5.60	5.70
Wettable Flank Step Cut Width	D3	-	-	-	-	-	0.085
Overall Width	E	6.90	7.00	7.10	7.00 BSC		
Exposed Pad Width	E2	5.50	5.60	5.70	5.50	5.60	5.70
Terminal Width	b	0.20	0.25	0.30	0.20	0.25	0.30
Terminal Length	L	0.35	0.40	0.45	0.35	0.40	0.45
Terminal-to-Exposed-Pad	K	-	-	-	0.20	-	-

Note: These POD changes are within JEDEC limit so no significant impact other than a documentation change in the spec and/or datasheet.

Change Impact:

None

Reason for Change:

To improve on time delivery performance by qualifying MMT as a new assembly site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

January 31, 2021 (date code: 2105)

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

Time Table Summary:

	October 2019					>	January 2021				
Workweek	41	42	43	44	45		01	02	03	04	05
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:

October 04, 2019: Issued initial notification.

January 07, 2021: Issued final notification. Attached the qualification report. Provided estimated first

date to be on January 31, 2021. **January 08, 2021:** Re-issued final notification. Updated the POD table for ASCL dimension data for the following: A, D3 and A4. Updated the qualification report for typographical error on Page 3 JEDEC standard.

March 08, 2021: Re-issued final notification to update the reason for change from NSEB to MMT.

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

Attachments:

[PCN_KSRA-15DGBH859_Qual_Report.pdf](#)

[PCN_KSRA-15DGBH859_Pre and Post Change Summary.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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