



Product Change Notification - JAON-19VEXA051

Date:

27 Dec 2018

Product Category:

32-bit Microcontrollers; Wireless Modules; Smart Energy Wireless Communications

Affected CPNs:**Notification subject:**

CCB 3654 Initial Notice: Qualification of MMT as an additional assembly site for selected Atmel products of 58.5K and 58.85K wafer technologies available in 48L VQFN (7x7x0.9mm) package.

Notification text:**PCN Status:**

Initial 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 selected Atmel products of 58.5K and 58.85K wafer technologies available in 48L VQFN (7x7x0.9mm) package.

Pre-Change:

Assembled at ASE using palladium coated copper (PdCu) bond wire, EN-4900F die attach and G631H mold compound material or assembled at ATP7 using gold palladium (AuPd) bond wire, AMK-06 die attach and G700 mold compound material

Post Change:

Assembled at ASE using palladium coated copper (PdCu) bond wire, EN-4900F die attach and G631H mold compound material or assembled at ATP7 using gold palladium (AuPd) bond wire, AMK-06 die attach and G700 mold compound material or assembled at MMT using gold (Au) bond wire, 3280 die attach and G700 mold compound material.

Pre and Post Change Summary:

	Pre Change		Post Change		
Assembly Site	ASE Inc. (ASE)	Amkor Technology Philippines (P3/P4), INC. (ATP7)	ASE Inc. (ASE)	Amkor Technology Philippines (P3/P4), INC. (ATP7)	Microchip Technology Thailand (Branch) (MMT)
Wire material	PdCu	AuPd	PdCu	AuPd	Au
Die attach material	EN-4900F	AMK-06	EN-4900F	AMK-06	3280
Molding compound material	G631H	G700	G631H	G700	G700
Lead frame material	C194	C194	C194	C194	C194
MSL level	MSL 3	MSL 3	MSL 3	MSL 3	MSL 1

Impacts to Data Sheet:

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

	Pre Change	Post Change
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Dimension Limit (in mm)	Min	Nor	Max	Min	Nor	Max
Number of terminals	48			48		
Overall Height	0.80	0.85	0.90	0.80	0.90	1.00
Standoff	0.00	0.02	0.05	0.00	-	0.05
Terminal Thickness	0.20 REF			0.20 REF		
Overall Length	7.00 BSC			7.00 BSC		
Exposed Pad Length	5.50	5.60	5.70	5.50	5.60	5.70
Overall Width	7.00 BSC			7.00 BSC		
Exposed Pad Width	5.50	5.60	5.70	5.50	5.60	5.70
Terminal Width	0.17	0.25	0.30	0.20	0.25	0.30
Terminal Length	0.30	0.40	0.50	0.30	0.40	0.50
Pitch	0.50 BCS			0.50 BCS		

Change Impact:

None

Reason for Change:

To improve productivity and on-time delivery performance by qualifying MMT as an additional assembly site.

Change Implementation Status:

In Progress

Estimated Qualification Completion Date:

March 2019

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:



	December 2018				-->	March 2019				
Workweek	49	50	51	52		9	10	11	12	13
Initial PCN Issue Date				X						
Qual Report Availability								X		
Final PCN Issue Date								X		

Method to Identify Change:

Traceability code

Qualification Plan:

Please open the attachments included with this PCN labeled as PCN_#_Qual Plan.

Revision History:

December 27, 2018: Issued initial notification.

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

Attachment(s):

[PCN JAON-19VEXA051 Qual Plan.pdf](#)

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

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Affected Catalog Part Numbers (CPN)

AT86RF215IQ-ZU
AT86RF215IQ-ZU-003
AT86RF215IQ-ZU-004
AT86RF215IQ-ZUR
AT86RF215IQ-ZUR-003
AT86RF215IQ-ZUR-004
AT86RF215M-ZU
AT86RF215M-ZUR
AT86RF215-ZU
AT86RF215-ZU-003
AT86RF215-ZU-004
AT86RF215-ZUR003
AT86RF215-ZUR004
ATMEGA1284RFR2-ZF
ATMEGA1284RFR2-ZFR
ATMEGA1284RFR2-ZU
ATMEGA1284RFR2-ZUR
ATMEGA2564RFR2-ZF
ATMEGA2564RFR2-ZFR
ATMEGA2564RFR2-ZFRP01
ATMEGA2564RFR2-ZU
ATMEGA2564RFR2-ZUR
ATMEGA644RFR2-ZF
ATMEGA644RFR2-ZFR
ATMEGA644RFR2-ZU
ATMEGA644RFR2-ZUR
ATSAM4LC8AA-MU
ATSAM4LC8AA-MUR
ATSAM4LS8AA-MU
ATSAM4LS8AA-MUR