

# **Product Change Notification - KSRA-20UFUA549**

Date:

14 Jan 2019

**Product Category:** 

8-bit Microcontrollers; Capacitive Touch Sensors

**Affected CPNs:** 



# **Notification subject:**

CCB 3368.001 Final Notice: Qualification of MMT as an additional assembly site for selected Atmel products of 35.4K, 35.5K and 19.6K available in 32L VQFN (5x5x0.9mm) package

#### **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 selected Atmel products available in 32L VQFN (5x5x0.9mm) package

# **Pre Change:**

Assembled at ANAC assembly site with punched as singulation method using 8290 die attach material

#### **Post Change:**

Assembled at ANAC assembly site with punched as singulation method using 8290 die attach material and Assembled at MMT assembly site with sawn as singulation method using 3280 die attach material

Pre and Post Change Summary:

	Pre Change	Post C	hange		
Assembly Site	Amkor Assembly & Test (Shanghai) Co., LTD /	Amkor Assembly & Test (Shanghai) Co.,	Microchip Technolog		
	ANAC	LTD / ANAC	(Branch) / MMT		
Wire material	Au	Au	Au		
Die attach material	8290	8290	3280		
Molding compound material	G700	G700	G700		
Lead frame material	C194	C194	C194		
Singulation Method	punched	punched	sawn		

All inits in mil	llimeter (mm)		Assembly ai) Co., LTI	& lest	Microchip Technology Thailand (Branch) / MMT				
Dimensio	on Limits	Min	Nom	Max	Min	Max			
Number of terminals	N		32		32				
	е		0.50 BSC		0.50 BSC				



Pitch								
Overall Height	Α	0.8	0.85	0.9	0.8	0.9	1.0	
Standoff	<b>A</b> 1	0	0.01	0.05	0	0.02	0.05	
Molded package thickness	A2	0.6	0.65	0.7	N/A			
Terminal Thickness	A3	0.20 REF			0.203 REF			
Overall Length	D	5.00BSC			0.500 BSC			
Molded package length	D1	4.75BSC			N/A			
Overall Width	E	5.00BSC			5.00 BSC			
Molded package Width	E1	4.75BSC			N/A			
Exposed Pad Length	D2	3.0	3.1	3.2	3.0	3.1	3.2	
Exposed Pad Width	E2	3.0	3.1	3.2	3.0	3.1	3.2	
Terminal Length	L	0.3	0.4	0.5	0.3	0.4	0.5	
Terminal-to- exposed- pad	К	0.2	-	-	0.2	-	-	
Mold angle		0		12 <sup>O</sup>	N/A	N/A	N/A	
Package Chamfer	Р	0.24	0.42	0.6	N/A	N/A	N/A	
Exposed Tie Bar Length	3	0.3	0.4	0.65	N/A	N/A	N/A	
Exposed Tie Bar Width	R	0.13	0.17	0.23	N/A	N/A	N/A	
POD Drawing		(PCN_KSI	ee attachme RA-20UFU/ hange_PO g_ANAC_Pi	A549_Pre- D	see attachment  (PCN_KSRA-20UFUA549_Pre- Change_POD Drawing_MCHP_Sawn)			

The dimensions of the products from MMT are within the specifications of the package from ANAC. **Impacts to Data Sheet:** 

Yes; Package outline drawing- change from punch version to saw singulated

# **Change Impact:**

None

# **Reason for Change:**

To improve productivity by qualifying MMT as an additional assembly site

# **Change Implementation Status:**

In Progress



## **Estimated First Ship Date:**

February 14, 2019 (date code: 1907)

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

### **Time Table Summary:**

	January 2019				February 2019				
Workweek	01	02	03	04	05	06	07	80	09
Qual Report Availability		Χ							
Final PCN Issue Date		Χ							
Estimated Implementation Date							Х		

### **Method to Identify Change:**

Traceability code

### **Qualification Report:**

Please open the attachments included with this PCN labeled as PCN\_#\_Qual\_Report.

# **Revision History:**

**January 14, 2019:** Issued final notification. Attached the Qualification Report. Provided estimated first ship date on February 14, 2019.

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\_KSRA-20UFUA549\_Qual\_Report.pdf

PCN\_KSRA-20UFUA549\_Pre-Change\_POD Drawing\_ANAC\_Punched.pdf

PCN KSRA-20UFUA549 Post-Change POD Drawing MCHP Sawn.pdf

Please contact your local <u>Microchip sales office</u> with questions or concerns regarding this notification.

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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.

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#### Affected Catalog Part Numbers (CPN)

AT42QT1244-MUR

AT42QT1245-MU

AT42QT1245-MUR

ATMEGA168-20MQ

ATMEGA168-20MQR

ATMEGA168-20MUR

ATMEGA168P-20MUR

ATMEGA168PA-MN

ATMEGA168PA-MNR

ATMEGA168PA-MUA1

ATMEGA168PA-MURA1

ATMEGA168PV-10MUR

ATMEGA168V-10MQ

ATMEGA168V-10MQR

ATMEGA168V-10MQR610

ATMEGA48A-MU

ATMEGA48A-MUR

ATMEGA48P-20MUR

ATMEGA48PA-MNR

ATMEGA48PA-MURA5

ATMEGA48V-10MUR

ATMEGA48V-10MURA3

ATMEGA88-20MUR

ATMEGA88PA-MN

ATMEGA88PA-MNR

ATMEGA88PA-MURA6

ATMEGA88V-10MURA1

ATMEGA8L-8MUA4

ATMEGA8L-8MURA3

ATMEGA8L-8MURA5

ATTINY26-16MQR

ATTINY261A-MF

ATTINY261A-MFR

ATTINY28L-4MU

ATTINY28V-1MU

ATTINY828-MU

ATTINY828-MUR

QT60160-ISG

QT60240-ISG

Date: Sunday, January 13, 2019