

Product Change Notification - KSRA-22BGIU893

Date:

24 Jan 2020

Product Category:

8-bit Microcontrollers

Affected CPNs:

Notification subject:

CCB 4038 Initial Notice: Qualification of MPHL as a new final test site for selected Atmel ATTINY16x7, ATTINY8x7, ATTINY417 and ATTINY3217 device families available in 24L QFN (4x4x0.9mm) packages.

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 MPHL as a new final test site for selected Atmel ATTINY16x7, ATTINY8x7, ATTINY417 and ATTINY3217 device families available in 24L QFN (4x4x0.9mm) packages.

Pre Change:

Tested at ASCL final test site.

Post Change:

Tested at MPHL final test site

Pre and Post Change Summary:

| | | Pre Change | Post Change |
|-------------------------------------|----------------------|--------------------------------------|------------------------------------------------------------------|
| Final Test Site | | ASE Group Chung-Li (ASCL) | Microchip Technology Operations (Philippines) Corporation (MPHL) |
| Base Quantity Multiple (BQM) | Tray | 490 units per a tray | 490 units per a tray |
| | Tape and Reel | 6000 units per reel | 6000 units per reel |
| Pin1 Orientation | | Quadrant 1 | Quadrant 1 |
| Tray Dimension | | 135.9mm x 322.6mm | 135.9mm x 322.6mm |
| Other Packing Information | | See attached Pre and Post comparison | |

Impacts to Data Sheet:

None

Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying MPHL as new Final Test site.

Change Implementation Status:

In Progress

Estimated Qualification Completion Date:



February 2020

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:

| | January 2020 | | | | | February 2020 | | | |
|--------------------------|--------------|----|----|----|----|---------------|----|----|----|
| Workweek | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| 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:

January 24, 2020: 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_KSRA-22BGIU893_Pre_and_Post_Change_Summary.pdf](#)

[PCN_KSRA-22BGIU893_Qual_Plan.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.

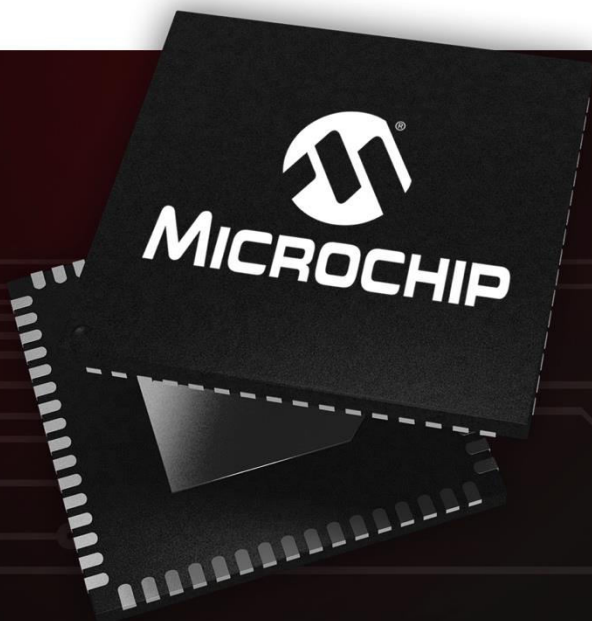
If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

ATTINY1607-MNR
ATTINY807-MNR
ATTINY1607-MFR
ATTINY807-MFR
ATTINY1617-MNR
ATTINY1617-MFR
ATTINY817-MNR
ATTINY417-MNR
ATTINY817-MFR
ATTINY417-MFR
ATTINY3217-MNR
ATTINY3217-MFR
ATTINY1607-MF
ATTINY807-MF
ATTINY1607-MN
ATTINY807-MN
ATTINY1617-MF
ATTINY1617-MN
ATTINY417-MF
ATTINY817-MF
ATTINY417-MN
ATTINY817-MN
ATTINY3217-MF
ATTINY3217-MN



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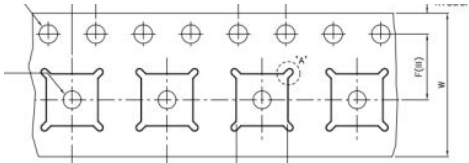
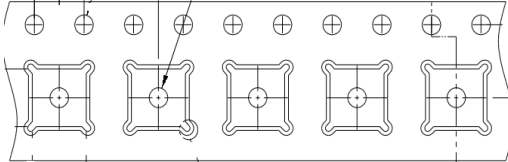
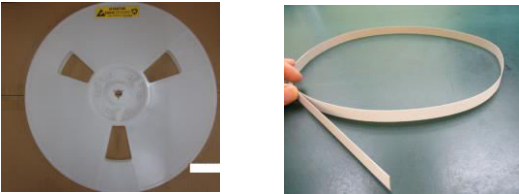
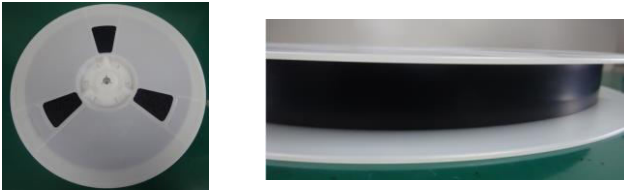


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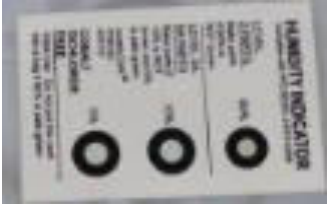







CCB 4038_ Pre and Post Change Summary
PCN# KSRA-22BGIU893


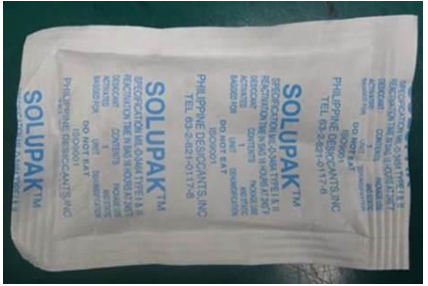
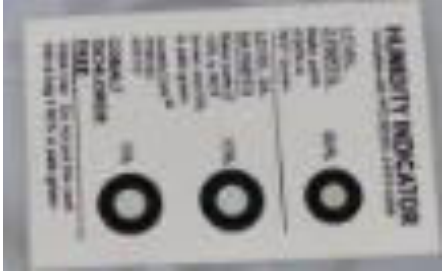

Pre and Post Change - REEL

| | Post Change | | | | | Pre Change | | | | |
|------------------------------|--------------------------------------------------------------------------------------|----------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|----------------|----------------|---------------|-------------|
| Final Test Site | ASCL | | | | | MPHL | | | | |
| Base Quantity Multiple (BQM) | 6000 units per reel | | | | | 6000 units per reel | | | | |
| Pin1 Orientation | Quadrant 1 | | | | | Quadrant 1 | | | | |
| Carrier Tape | Width | Pitch | A0 | B0 | K0 | Width | Pitch | A0 | B0 | K0 |
| | 12.0 ±0.3 mm | 8.00 ±0.1 mm | 4.30 ±0.1 mm | 4.30 ±0.1 mm | 1.10±0.1 mm | 12.0 ±0.3 mm | 8.00 ±0.1 mm | 4.35 ±0.1 mm | 4.35 ±0.1 mm | 1.10±0.1 mm |
| |  | | | | |  | | | | |
| Cover Tape | Width | Thickness | Adhesive width | Part No. | Method | Width | Thickness | Adhesive width | Part No. | Method |
| | 9.3 ±0.1 mm | 0.06 ±0.006 mm | 1.0 ±0.15 mm | CP63 | Heat Pressure | 9.3 ±0.1 mm | 0.05 ±0.005 mm | 1.0 ±0.15 mm | CP58 | Pressure |
| Reel | Color | Diameter | Hub Dia | W1 | W2 | Color | Diameter | Hub Dia | W1 | W2 |
| | White | 330 +0/-4 mm | 101.5 ±1.5mm | 12.4 +2/-0 mm | 18.4 mm | White | 330 +0/-4 mm | 101.5 ±1.5mm | 12.4 +2/-0 mm | 18.4 mm |
| |  | | | | |  | | | | |





Pre and Post Change - REEL

| | Post Change | | | Pre Change | | |
|----------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|
| Desiccant | Clay Dessicant  | | | Clay Dessicant  | | |
| HIC | Cobalt Free  | | | Cobalt Free  | | |
| Moisture Barrier Bag | Length |  | | Length |  | |
| | 457.2 mm | | | | | |
| | Width | | | | | |
| | 406.4 mm | | | | | |
| Pizza Box | Length | Width | Height | Length | Width | Height |
| | 351 mm | 372 mm | 53 mm | 354 mm | 352 mm | 53 mm |
| |  | | |  | | |

Pre and Post Change - TRAY

| | Post Change | Pre Change |
|------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Final Test Site | ASCL | MPHL |
| Base Quantity Multiple (BQM) | 490 units per a tray | 490 units per a tray |
| Pin1 Orientation | Pin 1 Left-down | Pin 1 Left-down |
| Tray | For AMS/AMN packing: 4602409111 For ISC packing: 4604856111 | For AMS/AMN packing: 4602409111 For ISC packing: 4604856111 |
| Desiccant | Clay Desiccant  | Clay Desiccant  |
| HIC | Cobalt Free  | Cobalt Free  |

Pre and Post Change - TRAY

| | Post Change | | | Pre Change | | |
|----------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
| Moisture Barrier Bag | Length |  | | Length |  | |
| | 480 mm | | | 482.6 mm | | |
| | Width | | | Width | | |
| | 260 mm | | | 228.6 mm | | |
| Pizza Box | Length | Width | Height | Length | Width | Height |
| | 351 mm | 162 mm | 98 mm | 371.5 mm | 162 mm | 88 mm |
| |  | | |  | | |



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QUALIFICATION PLAN SUMMARY

PCN #: KSRA-22BGIU893

Date

November 08, 2019

Qualification of MPHL as a new final test site for selected Atmel ATTINY16x7, ATTINY8x7, ATTINY417 and ATTINY3217 device families available in 24L QFN (4x4x0.9mm) packages.

Purpose: Qualification of MPHL as a new final test site for selected Atmel ATTINY16x7, ATTINY8x7, ATTINY417 and ATTINY3217 device families available in 24L QFN (4x4x0.9mm) packages.

CCB No.: 4038

| Test / Evaluation | Test Conditions / Parameters |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Datalog / Bin Comparison | <ul style="list-style-type: none">• Compare test numbers, test names, test limit, test sequence, bin assignments & pass/fail results.• Accept if all match or justify the differences |
| Site by site verification | <ul style="list-style-type: none">• Verifies the channel map has the correct site assignments and tester/handler communication work correctly |
| Parametric Correlation | <ul style="list-style-type: none">• 50 units of parametric data comparison |
| Yield Comparison | <ul style="list-style-type: none">• Yield at each step and reject analysis between systems. 3K units are tested.• Accept on yield difference within 0.1% |