



Final Product/Process Change Notification

Document #: FPCN23668XB

Issue Date: 26 Dec 2022

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|--|--|---|
| Title of Change: | JCET 6" Wafer Bumping Site, and Polyimide Change [Batch 2]. | |
| Proposed First Ship date: | 02 Apr 2023 or earlier if approved by customer | |
| Contact Information: | Contact your local onsemi Sales Office or NoorArdila.Shaharuddin@onsemi.com | |
| PCN Samples Contact: | Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. | |
| Additional Reliability Data: | Contact your local onsemi Sales Office or Nicky.Siu@onsemi.com | |
| Type of Notification: | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com | |
| Marking of Parts/ Traceability of Change: | Affected parts with this change will be identified by date code. | |
| Change Category: | Assembly Change | |
| Change Sub-Category(s): | Manufacturing Site Transfer | |
| Sites Affected: | | |
| onsemi Sites | External Foundry/Subcon Sites | |
| None | JCET, China | |
| Description and Purpose: | | |
| This is the final notification of the new bump site qualification in JCET (formerly known as JCAP) of the CMF dies. The details of the changes are outlined in the tables below. | | |
| | From | To |
| Bumping Site | 6" wafers are processed at site B1 No.275 Binjiang Road, Jiangyin, Jiangsu, China, 214432 | 6" wafers are processed at site B2 No.78 Changshan Road, Jiangyin, Jiangsu, China, 214433 |
| Datasheet specifications and product electrical performance remain unchanged. | | |
| Affected parts with this change will be identified by date code. | | |



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Reliability Data Summary:

QV DEVICE NAME : CM1230-08CP

RMS : S74556

PACKAGE : WLCSP-10, 2.46x0.96mm

| Test | Specification | Condition | Interval | Results |
|-------|------------------------|-----------------------------------|-----------|---------|
| HTRB | JESD22-A108 | Ta = 150°C, 100% max rated V | 1008 hrs | 0/77 |
| TC | JESD22-A104 | Ta = -40°C to +125°C | 1700 cycs | 0/77 |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs | 0/77 |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/77 |
| PC | J-STD-020, JESD22-A113 | 3x reflow only (WLCSP) | - | - |

QV DEVICE NAME : CM1402-03CP

RMS : S84874

PACKAGE : WLCSP-10, 1.96x1.33mm

| Test | Specification | Condition | Interval | Results |
|-------|------------------------|-----------------------------------|-----------|---------|
| HTRB | JESD22-A108 | Ta = 150°C, 100% max rated V | 1008 hrs | 0/154 |
| TC | JESD22-A104 | Ta = -40°C to +125°C | 1700 cycs | 0/154 |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs | 0/154 |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/154 |
| PC | J-STD-020, JESD22-A113 | 3x reflow only (WLCSP) | - | - |

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

| Part Number | Qualification Vehicle |
|-------------|-----------------------|
| CM1402-03CP | CM1402-03CP |
| CM1230-J2CP | CM1230-08CP |
| CM1230-08CP | CM1230-08CP |
| CM1230-02CP | CM1230-08CP |