



Final Product/Process Change Notification

Document #:FPCN24526X

Issue Date:23 Nov 2022

| | | | |
|---|--|--------------------------------------|-------------------|
| Title of Change: | Qualification of Alternate Lead Frame with C7025 base material for xDFN3 1.0x0.6 | | |
| Proposed First Ship date: | 28 Feb 2023 or earlier if approved by customer | | |
| Contact Information: | Contact your local onsemi Sales Office or Cyrus.Velasquez@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 Andy.Esteve@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: | Product traceability will be maintained by date code | | |
| Change Category: | Assembly Change | | |
| Change Sub-Category(s): | Material Change | | |
| Sites Affected: | | | |
| onsemi Sites | | External Foundry/Subcon Sites | |
| onsemi Tarlac, Philippines | | None | |
| Description and Purpose: | | | |
| onsemi is announcing the qualification of C7025 Base Material for xDFN3 1.0 x 0.6 in onsemi Tarlac, Philippines. This change will be implemented to mitigate the potential supply disruption; customers are encouraged to urgently review this change in order to minimize potential impact to their supply chain. Upon implementation of this change, any of the qualified suppliers will be used to support demand. | | | |
| | From | To | |
| Lead frame Supplier | Dynacraft Industries | Dynacraft Industries | HAESUNG DS Co Ltd |
| Base Material | EFTEC64 1/2H | EFTEC64 1/2H | C7025 1/2H |
| Note: There is no product marking change and product traceability will be maintained by lot and date code | | | |



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Reliability Data Summary:

QV DEVICE NAME: NTNS3A67PZT5G

RMS: S82643

PACKAGE: xDFN3

| Test | Specification | Condition | Interval | Results |
|-------|------------------------------------|--|--------------|---------|
| IOL | MIL-STD-750 (M1037) AEC-Q101 | Ta=+25°C, delta Tj=100°C On/off = 2 min | 15000 cycles | 0/240 |
| TC | JESD22-A104 | Ta= - 65°C to +150°C | 500 cycles | 0/240 |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/240 |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260 °C | | 0/720 |
| RSH | JESD22- B106 | Ta = 265C, 10 sec | | 0/30 |
| SD | JSTD002 | Ta = 245C, 5 sec | | 045 |
| PD | JES2D-B100 | | | 0/30 |

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 |
|---------------|-----------------------|
| NTNS3A67PZT5G | NTNS3A67PZT5G |
| NTNS3166NZT5G | NTNS3A67PZT5G |
| NTNS3164NZT5G | NTNS3A67PZT5G |