



Initial Product/Process Change Notification

Document #: IPCN25003X

Issue Date: 09 Nov 2022

| | | | |
|---|---|--------------------------------------|-----------------------|
| Title of Change: | NC7SZ175P6X-L22347 Assembly and Test Site Addition (SC88). | | |
| Proposed First Ship date: | 03 Apr 2023 or earlier if approved by customer | | |
| Contact Information: | Contact your local onsemi Sales Office or logic.fpcn@onsemi.com | | |
| PCN Samples Contact: | <p>Contact your local onsemi Sales Office.</p> <p>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.</p> <p>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</p> | | |
| Type of Notification: | <p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com></p> | | |
| Marking of Parts/ Traceability of Change: | New plant site is with new onsemi marking style with underscore below the date code. | | |
| Change Category: | marking change, Test Change, Assembly Change | | |
| Change Sub-Category(s): | Shipping/Packaging/Marking | | |
| Sites Affected: | | | |
| onsemi Sites | | External Foundry/Subcon Sites | |
| None | | HANA Microelectronics, China | |
| | | STARS Microelectronics, Thailand | |
| Description and Purpose: | | | |
| A new Subcon site was qualified to increase back-end capacity. There is no change in form, fit and function except the marking of plant code. | | | |
| | From | To | |
| Assembly Site | Hana | Hana | STARs |
| LeadFrame | LF SC88 6L 70X86 PPF | LF SC88 6L 70X86 PPF | LF SC70 6L D28X37 PPF |
| Die Attach | DA EPOXY ABLESTICK 2200D | DA EPOXY ABLESTICK 2200D | CONDUCTIVE EPOXY 8390 |
| Mold Compound | MC SUMITOMO G600 HF | MC SUMITOMO G600 HF | Sumitomo EME G-600 |

| | From | To |
|--|---|---|
| <p>Product marking change</p> <p><i>HanaJX is undergoing marking change to onsemi new marking style. Hence for From we may have 2 types of markings. Please refer to the released PB25002X which was issued for marking format change at HanaJX.</i></p> | <p>Year code 1 2 3 T Week code XXX = Specific Device Code M = Date Code</p> | <p>XXX = Specific Device Code M = Date Code</p> <p>XXX = Specific Device Code M = Date Code</p> <p><i>Date code is with underscore for STARs and 270 degree for HanaJX.</i></p> |

Qualification Plan:

QV DEVICE NAME: NC7SZ175P6X-L22347

RRF: S83397

PACKAGE: SC88

| Test | Specification | Condition | Interval |
|-------|-----------------------------|-----------------------------------|----------|
| HTOL | JESD22-A108 | Ta= 125°C | 1008 hrs |
| ELFR | AECQ100-008 | Ta= 125°C | 48 hrs |
| HTSL | JESD22-A103 | Ta= 150°C | 1008 hrs |
| TC | JESD22-A104 | Ta= -65°C to + 150°C | 500 cyc |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260°C | |
| PD | JESD22-B100 and JESD22-B108 | Per Case Outline | |
| SD | JSTD002 | Ta = 245C, 5 sec | |



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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 |
|--------------------|-----------------------|
| NC7SZ175P6X-L22347 | NC7SZ175P6X-L22347 |

Appendix A: Changed Products

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DIKG: DIGI-KEY

| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|--------------------|----------------------|-----------------------|-----------------|----------------------|
| NC7SZ175P6X-L22347 | | NC7SZ175P6X-L22347 | NA | |