12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN#20210205000.1**
**Qualification of UTL3 as an additional assembly site for select Devices**
**Change Notification / Sample Request**

**Date:** May 11, 2021
**To:** TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an announcement of a change to devices that are currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact your field sales representative.

Sincerely,

PCN Team
SC Business Services

**20210205000.1**
**Attachment: 1**

## Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty four (24) months. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|---|---|
| TPS60151DRVR | null |
| SN74LVC1G07DRYR | null |
| SN74AVC2T245RSWR | null |
| TPD2E001DRYR | null |
| TPS3897ADRYT | null |
| TPS62560DRVR | null |
| TPS7A3701DRVT | null |
| TPD4E004DRYR | null |
| TS3A5018RSVR | null |
| TPD4S012DRYR | null |
| TPS79912DRVR | null |
| TPS3808G18DRVR | null |
| TPD4S009DRYR | null |
| TS3A24157RSER | null |
| TCA6424ARGJR | null |
| TPS62291DRVT | null |
| TPS79918DRVT | null |
| TPD6E001RSER | null |
| TS3USB221ERSER | null |
| TPS62560DRVT | null |
| TPS3897ADRYR | null |
| TPS62232DRYR | null |
| TPS7A3701DRVR | null |
| TPS3898ADRYR | null |
| TS5A23157RSER | null |
| TPS62240DRVR | null |
| TLA2024IRUGR | null |
| ADS1015IRUGT | null |
| TPS3422EGDRYT | null |
| TPS62243DRVR | null |
| TS3USB31RSER | null |
| TS3A4751RUCR | null |
| TS5A23159RSER | null |
| TS3A44159RSVR | null |
| TPS62291DRVR | null |
| TLV342IRUGR | null |
| REG71050DRVR | null |
| SN74AVC4T774RSVR | null |
| TPS62250DRVR | null |
| TS3USB30RSWR | null |
| SN74AVCH4T245RSVR | null |
| ADS1115IRUGT | null |
| INA199B1RSWR | null |
| TPS62293DRVR | null |
| ADS1115IRUGR | null |
| TPS62232DRYT | null |
| TLV70018DSER | null |
| TPS62562DRVR | null |
| TLA2024IRUGT | null |
| TMP451AIDQFR | null |
| SN74AVC4T245RSVR | null |
| TPS62231DRYR | null |
| TPS62240DRVT | null |
| TPS715A01DRVR | null |
| INA216A2RSWR | null |
| TPS3422EGDRYR | null |
| TCA6507RUER | null |
| TPD6E004RSER | null |

| | |
|---|---|
| TPD6E001RSERG4 | null |
| TPS79933DRVR | null |
| ADS1114IRUGR | null |
| TS3USB3200RSVR | null |
| SN74LVC1G3157DRYR | null |
| TPS3710DSER | null |

Technical details of this Product Change follow on the next page(s).

| | | | |
|---|---|---|---|
| **PCN Number:** | 20210205000.1 | **PCN Date:** | May 11, 2021 |
| **Title:** | Qualification of UTL3 as an additional assembly site for select Devices | | |
| **Customer Contact:** | PCN Manager | **Dept:** | Quality Services |
| **Proposed 1st Ship Date:** | Aug. 11, 2021 | **Estimated Sample Availability:** | Date provided at sample request |

**Change Type:**

| | | | | | |
|---|---|---|---|---|---|
| ☒ | Assembly Site | ☐ | Design | ☐ | Wafer Bump Site |
| ☐ | Assembly Process | ☐ | Data Sheet | ☐ | Wafer Bump Material |
| ☐ | Assembly Materials | ☐ | Part number change | ☐ | Wafer Bump Process |
| ☐ | Mechanical Specification | ☐ | Test Site | ☐ | Wafer Fab Site |
| ☐ | Packing/Shipping/Labeling | ☐ | Test Process | ☐ | Wafer Fab Materials |
| | | | | ☐ | Wafer Fab Process |

## PCN Details

**Description of Change:**

Texas Instruments Incorporated is announcing the qualification of UTL3 as an alternate Assembly site for devices listed below in the product affected section. There are no construction differences between the two sites

**Reason for Change:**

Supply continuity

**Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):**

None

**Anticipated impact on Material Declaration**

| | | | |
|---|---|---|---|
| ☒ | No Impact to the Material Declaration | ☐ | Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp |

**Changes to product identification resulting from this PCN:**

| Assembly Site | Assembly Site Origin (22L) | Assembly Country Code (23L) | Assembly City |
|---|---|---|---|
| UTL1 | NSE | THA | Bangkok |
| **UTL3** | **UT3** | **THA** | **Bangpakong** |

Sample product shipping label (not actual product label)


**Product Affected:**

| | | | |
|---|---|---|---|
| 74AVC4T245RSVRG4 | SN74LVC1G07DRYRG4 | TPS3898PDRYR | TPS73733DRVR |
| 74AVC4T774RSVR-NT | SN74LVC1G126DRYR | TPS60151DRVR | TPS78001DRVR |
| 74AVC4T774RSVRG4 | SN74LVC1G175DRYR | TPS61240DRVR | TPS78001DRVRG4 |

| | | | |
|---|---|---|---|
| 74AVCH4T245RSVRG4 | SN74LVC1G3157DRYR | TPS622311DRYR | TPS780180300DRVR |
| 74LVC1G3157DRYRG4 | TCA6424ARGJR | TPS622311DRYT | TPS78101DRVR |
| ADS1013IRUGR | TCA6507RUER | TPS622314DRYR | TPS78227DRVR |
| ADS1014IRUGR | TLA2021IRUGR | TPS62231DRYR | TPS78227DRVT |
| ADS1015IRUGR | TLA2022IRUGR | TPS62232DRYR | TPS79901DRVR |
| ADS1015IRUGT | TLA2024IRUGR | TPS62232DRYT | TPS79901DRVRG4 |
| ADS1018IRUGR | TLA2024IRUGT | TPS62240DRVR | TPS79912DRVR |
| ADS1113IRUGT | TLV342IRUGR | TPS62240DRVRG4 | TPS79918DRVR |
| ADS1114IRUGR | TLV70018DSER | TPS62240DRVT | TPS79918DRVRG4 |
| ADS1115IRUGR | TLV7101828DSER | TPS62242DRVR | TPS79918DRVT |
| ADS1115IRUGT | TLV7111533DDSER | TPS62242DRVRG4 | TPS79927DRVR |
| ADS1118IRUGR | TMP451AIDQFR | TPS62243DRVR | TPS79928DRVR |
| HPA00719RSVR | TPD2E001DRYR | TPS62250DRVR | TPS79928DRVT |
| INA199A2RSWR | TPD2E001DRYRG4 | TPS62261DRVT | TPS79933DRVR |
| INA199B1RSWR | TPD3E001DRYR | TPS62270DRVT | TPS79933DRVRG4 |
| INA199B2RSWT | TPD3E001DRYRG4 | TPS62291DRVR | TPS7A3701DRVR |
| INA199C3RSWR | TPD4E004DRYR | TPS62291DRVT | TPS7A3701DRVT |
| INA211BIRSWR | TPD4E004DRYRG4 | TPS62293DRVR | TS3A24157RSER |
| INA211BIRSWT | TPD4S009DRYR | TPS62293DRVRG4 | TS3A24157RSERG4 |
| INA213AIRSWR | TPD4S012DRYR | TPS62560DRVR | TS3A44159RSVR |
| INA213BIRSWR | TPD6E001RSER | TPS62560DRVRG4 | TS3A44159RSVRG4 |
| INA216A1RSWR | TPD6E001RSERG4 | TPS62560DRVT | TS3A4751RUCR |
| INA216A2RSWR | TPD6E004RSER | TPS62560DRVTG4 | TS3A5017RSVR |
| INA216A2RSWT | TPS3421EGDRYR | TPS62562DRVR | TS3A5018RSVR |
| INA216A3RSWR | TPS3422EGDRYR | TPS62730DRYR | TS3USB221ERSER |
| INA216A4RSWR | TPS3422EGDRYT | TPS62730DRYT | TS3USB30RSWR |
| REG71050DRVR | TPS3710DSER | TPS62732DRYR | TS3USB31RSER |
| SN1203086RSWR | TPS3808G18DRVR | TPS62733DRYR | TS3USB31RSERG4 |
| SN170670025DSER | TPS3808G33DRVR | TPS70918DRVR | TS3USB3200RSVR |
| SN74AVC2T245RSWR | TPS3895PDRYR | TPS71401DRVR | TS5A23157HRSER |
| SN74AVC4T245RSVR | TPS3896ADRYR | TPS715A01DRVR | TS5A23157RSER |
| SN74AVC4T774RSVR | TPS3897ADRYR | TPS715A33DRVR | TS5A23159RSER |
| SN74AVCH4T245RSVR | TPS3897ADRYT | TPS728100180DRVR | TS5A23159RSERG4 |
| SN74LVC1G07DRYR | TPS3898ADRYR | TPS73701DRVR | |

**Qualification Results**
**Data Displayed as: Number of lots / Total sample size / Total failed**

| Type | Test Name / Condition | Duration | Qual Device: CC2541F256RHAR | Qual Device: INA210AIRSWR | Qual Device: TPS22990DMLR |
|---|---|---|---|---|---|
| PC | Preconditioning | Level 1 - 260C | - | 3/462/0 | - |
| PC | Preconditioning | Level 2 - 260C | - | - | 3/693/0 |
| PC | Preconditioning | Level 3 - 260C | 3/693/0 | - | - |
| AC | Autoclave, 121C | 96 Hours | 3/230/0 [1] | 3/231/0 | 3/231/0 |
| BHAST | Biased HAST, 110C | 264 Hours | 3/230/0 [2] | - | 3/231/0 |
| ED | Electrical Characterization | Side by side | - | 3/90/0 | - |
| HTSL | High Temp. Storage Bake, 150C | 1000 Hours | 3/231/0 | 3/231/0 | 3/231/0 |
| MSL | Moisture Sensitivity | Level 1 - 260C | - | 3/36/0 | - |
| MSL | Moisture Sensitivity (Cu Wire) | Level 2 - 260C | - | - | 3/36/0 |
| MSL | Moisture Sensitivity (Cu Wire) | Level 3 - 260C | 3/36/0 | - | - |
| SA | Salt Atmosphere | 24 Hours | 3/66/0 | - | - |
| SD | Solderability, Pb-free | Steam age, 8 hours | 3/66/0 | 3/66/0 | 3/66/0 |
| TC | Temperature Cycle, -65C/150C | 500 Cycles | 3/231/0 | 3/231/0 | 3/231/0 |
| MQ | Manufacturability (Assembly) | (per mfg. site specification) | 3/Pass | 3/Pass | 3/Pass |
| BPCC | Bond Pad Cratering Check | Post Final Test | 3/15/0 | 3/15/0 | 3/15/0 |
| DS | Die Shear | Die | 3/30/0 | - | 3/30/0 |
| WBP | Wire Bond Pull | Wires | 3/228/0 | 3/228/0 | 3/228/0 |
| PD | Physical Dimensions | (per mechanical drawing) | 3/15/0 | 3/15/0 | 3/15/0 |
| VM | Visual / Mechanical | (per mfg. site specification) | 3/36/0 | 3/36/0 | 3/36/0 |
| XRAY | X-Ray | Top side only | 3/15/0 | 3/15/0 | 3/15/0 |
| YLD | FTY and Bin Summary | - | 3/Pass | 3/Pass | 3/Pass |

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1000 Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1000 Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

Notes:
1. One device failed post-stress. Bin and failure analysis did not assign root cause to packaging issue, handling, or new factory. Discounted.
2. One device failed post-stress. Unit passed on retest. Discounted.

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

| Location | E-Mail |
|---|---|
| USA | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| WW PCN Team | PCN_ww_admin_team@list.ti.com |