



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20140922000
Qualification of PTI as an alternate Assembly/Test site
for the Sipario Family of Devices
Change Notification / Sample Request

Date: 9/24/2014
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is 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 changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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 Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659




20140922000
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 |
|---------------|-----------------------------|
| LMZ31503RUQT | null |
| LMZ31506RUQT | null |
| TPS84320RUQR | null |
| TPS84320RUQT | null |
| TPS84620RUQR | null |
| TPS84620RUQT | null |
| TPS84621RUQR | null |
| TPS84621RUQT | null |

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

| | | | | | | | | | | | | | | | | | | |
|---|---|---------------------------------------|---------------------------|----------------------------|--------------------------|---------------|--|--|-------------|----------------------------|----------|-----------------------------------|-----------------------------------|-----------------|--------------------|---------|-------------------|----------|
| PCN Number: | 20140922000 | | | PCN Date: | 09/24/2014 | | | | | | | | | | | | | |
| Title: | Qualification of PTI as an alternate Assembly/Test site for the Sipario Family of Devices | | | | | | | | | | | | | | | | | |
| Customer Contact: | PCN Manager | Phone: | +1(214)480-6037 | Dept: | Quality Services | | | | | | | | | | | | | |
| Proposed 1st Ship Date: | 12/24/2014 | Estimated Sample Availability: | | Date provided upon request | | | | | | | | | | | | | | |
| Change Type: | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Assembly Site | <input type="checkbox"/> | Assembly Process | <input type="checkbox"/> | Assembly Materials | | | | | | | | | | | | | |
| <input type="checkbox"/> | Design | <input type="checkbox"/> | Electrical Specification | <input type="checkbox"/> | Mechanical Specification | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Test Site | <input type="checkbox"/> | Packing/Shipping/Labeling | <input type="checkbox"/> | Test Process | | | | | | | | | | | | | |
| <input type="checkbox"/> | Wafer Bump Site | <input type="checkbox"/> | Wafer Bump Material | <input type="checkbox"/> | Wafer Bump Process | | | | | | | | | | | | | |
| <input type="checkbox"/> | Wafer Fab Site | <input type="checkbox"/> | Wafer Fab Materials | <input type="checkbox"/> | Wafer Fab Process | | | | | | | | | | | | | |
| | <input type="checkbox"/> | Part number change | | | | | | | | | | | | | | | | |
| PCN Details | | | | | | | | | | | | | | | | | | |
| Description of Change: | | | | | | | | | | | | | | | | | | |
| <p>Texas Instruments is pleased to announce the qualification of Powertech Technology (PTI) as an alternate Assembly and test site for the family of Sipario devices listed below. The material set will be the same between the 2 sites.</p> <p>Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.</p> | | | | | | | | | | | | | | | | | | |
| Reason for Change: | | | | | | | | | | | | | | | | | | |
| Continuity of Supply | | | | | | | | | | | | | | | | | | |
| Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative): | | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | |
| Changes to product identification resulting from this PCN: | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td colspan="3">Assembly Site</td> </tr> <tr> <td>TI Malaysia</td> <td>Assembly Site Origin (22L)</td> <td>ASO: MLA</td> </tr> <tr> <td>Powertech Technology (PTI)</td> <td>Assembly Site Origin (22L)</td> <td>ASO: PT2</td> </tr> </table> <p>Sample product shipping label (not actual product label)</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>TEXAS INSTRUMENTS</p> <p>MADE IN: Malaysia</p> <p>2DC: 2Q:</p> <table border="1"> <tr> <td>MSL 2 /260C/1 YEAR</td> <td>SEAL DT</td> </tr> <tr> <td>MSL 1 /235C/UNLIM</td> <td>03/29/04</td> </tr> </table> <p>OPT: ITEM: 39</p> <p>LBL: 5A (L)T0:1750</p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div> <p>(1P) SN74LS07NSR</p> <p>(Q) 2000 (D) 0336</p> <p>(31T) LOT: 3959047MLA</p> <p>(4W) TKY (1T) 7523483SI2</p> <p>(P)</p> <p>(2P) REV: (V) 0033317</p> <p>(20L) CS0: SHE (21L) CC0:USA</p> <p>(22L) ASO: MLA (23L) ACO: MYS</p> </div> </div> | | | | | | Assembly Site | | | TI Malaysia | Assembly Site Origin (22L) | ASO: MLA | Powertech Technology (PTI) | Assembly Site Origin (22L) | ASO: PT2 | MSL 2 /260C/1 YEAR | SEAL DT | MSL 1 /235C/UNLIM | 03/29/04 |
| Assembly Site | | | | | | | | | | | | | | | | | | |
| TI Malaysia | Assembly Site Origin (22L) | ASO: MLA | | | | | | | | | | | | | | | | |
| Powertech Technology (PTI) | Assembly Site Origin (22L) | ASO: PT2 | | | | | | | | | | | | | | | | |
| MSL 2 /260C/1 YEAR | SEAL DT | | | | | | | | | | | | | | | | | |
| MSL 1 /235C/UNLIM | 03/29/04 | | | | | | | | | | | | | | | | | |
| Topside Device marking: Assembly site code for MLA= K Assembly site code for PT2= C | | | | | | | | | | | | | | | | | | |

| Product Affected | | | | |
|------------------|---------------|--------------|--------------|--|
| LMZ31503RUQR | LMZ31506HRUQT | TPS84320RUQR | TPS84620RUQT | |
| LMZ31503RUQT | LMZ31506RUQR | TPS84320RUQT | TPS84621RUQR | |
| LMZ31506HRUQR | LMZ31506RUQT | TPS84620RUQR | TPS84621RUQT | |



TI Information
Selective Disclosure

Qualification Report

Qualification of Power Tech (PTI) Taiwan for assembly of TPS84620RUQ in QFN (RUQ) 47 pin.
Approved 9/13/2014

Product Attributes

| Attributes | Qual Device: TPS84620RUQ |
|---------------------|--------------------------|
| Assembly Site | PTI-TAIWAN |
| Package Family | QFN |
| Flammability Rating | UL 94 V-0 |
| Wafer Fab Supplier | MIHO 8 |
| Wafer Fab Process | LBC7 |

- Qual Device TPS84620RUQ is qualified at LEVEL3-260C

Qualification Results

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

| Type | Test Name / Condition | Duration | Qual Device: TPS84620RUQ |
|-------|--|-------------------------------|--------------------------|
| PC | Preconditioning Level 3 | 260C | 3/231/0 |
| THB | Biased Temperature and Humidity, 85C/85%RH | 1000 hours | 1/77/0 |
| UHAST | Unbiased HAST 110C/85%RH | 264 hours | 3/231/0 |
| TC | Temperature Cycle, -65/150C | 500 cycles | 3/231/0 |
| HTSL | High Temp Storage Bake 150C | 1000 hours | 1/77/0 |
| HTOL | Life Test, 125C | 1000 hours | 1/77/0 |
| MQ | MQ Assembly | (per mfg. Site specification) | Pass |
| MQ | MQ Test | (per mfg. Site specification) | 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/1k 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/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

TI Qualification ID: 20120917-67042

For questions regarding this notice, e-mails can be sent to the regional 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 |
| Japan | PCNJapanContact@list.ti.com |