



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN# 20140916000A**  
**Add Cu as Alternative Wire Base Metal for Selected Device(s)**  
**Change Notification / Sample Request**

Dear Customer:

Revision A is to announce the retraction of select devices.

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 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 Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services

**PCN# 20140916000A**  
**Attachment: 1**

**Products Affected:**

According to our records, there are the affected device(s) that you have purchased within the past twenty-four (24) months. Technical details of this Product Change follow on the next page(s).

| <b>PCN Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20140916000A                                                 |                                      |                                       | <b>PCN Date:</b>         | 01/19/2015                      |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------|---------------------------------------|--------------------------|---------------------------------|--------------|------------------|-----|-----------|---------|-----------------------------|------------------|---------------------------------|-------|------------------|--------------------------------------|
| <b>Title:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Add Cu as Alternative Wire Base Metal for Selected Device(s) |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Customer Contact:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">PCN Manager</a>                                  |                                      | <b>Phone:</b>                         |                          |                                 | <b>Dept:</b> | Quality Services |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Proposed 1<sup>st</sup> Ship Date:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12/29/2014                                                   |                                      | <b>Estimated Sample Availability:</b> |                          | Date provided at sample request |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Change Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Assembly Site                                                | <input type="checkbox"/>             | Design                                | <input type="checkbox"/> | Wafer Bump Site                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Assembly Process                                             | <input type="checkbox"/>             | Data Sheet                            | <input type="checkbox"/> | Wafer Bump Material             |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Assembly Materials                                           | <input type="checkbox"/>             | Part number change                    | <input type="checkbox"/> | Wafer Bump Process              |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mechanical Specification                                     | <input type="checkbox"/>             | Test Site                             | <input type="checkbox"/> | Wafer Fab Site                  |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Packing/Shipping/Labeling                                    | <input type="checkbox"/>             | Test Process                          | <input type="checkbox"/> | Wafer Fab Materials             |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                      |                                       | <input type="checkbox"/> | Wafer Fab Process               |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>PCN Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Description of Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <p><b>Revision A</b> is to announce the <u>retraction</u> of select devices. These devices will continue to be manufactured as prior and will not be subjected to the change described in this notification. Affected devices are identified with a <del>strike through</del> and are highlighted in yellow in the Product Affected Section.</p> <p>Texas Instruments is pleased to announce the qualification of Cu as an additional bond wire option for devices listed in "Product affected" section below. Devices will remain in current assembly facility and there will be no other piece part changes:</p> <table border="1"> <thead> <tr> <th>Pkg</th> <th>Wire From</th> <th>Wire To</th> </tr> </thead> <tbody> <tr> <td>SOIC, SOT23, VSSOP, &amp; TSSOP</td> <td>Au, 0.9 &amp; 1.0mil</td> <td>Cu, 0.96mil or Au, 0.9 &amp; 1.0mil</td> </tr> <tr> <td>TO263</td> <td>Au, 1.3 &amp; 2.0mil</td> <td>Au, 1.3 &amp; 2.0mil or Cu, 1.3 &amp; 2.0mil</td> </tr> </tbody> </table> |                                                              |                                      |                                       |                          |                                 |              |                  | Pkg | Wire From | Wire To | SOIC, SOT23, VSSOP, & TSSOP | Au, 0.9 & 1.0mil | Cu, 0.96mil or Au, 0.9 & 1.0mil | TO263 | Au, 1.3 & 2.0mil | Au, 1.3 & 2.0mil or Cu, 1.3 & 2.0mil |
| Pkg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wire From                                                    | Wire To                              |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| SOIC, SOT23, VSSOP, & TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Au, 0.9 & 1.0mil                                             | Cu, 0.96mil or Au, 0.9 & 1.0mil      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| TO263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Au, 1.3 & 2.0mil                                             | Au, 1.3 & 2.0mil or Cu, 1.3 & 2.0mil |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Reason for Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| Continuity of supply.<br>1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties<br>2) Maximize flexibility within our Assembly/Test production sites.<br>3) Cu is easier to obtain and stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Changes to product identification resulting from this PCN:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| <b>Product Affected:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                      |                                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| ADC08351CIMTCE/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LM25085MYX/NOPB                                              | LM5035DMH/NOPB                       | SM72240MFE-3.08/NOPB                  |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| ADC141S625CIMM/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LM25101CMY/NOPB                                              | LM5035DMHX/NOPB                      | SM72240MFE-4.63/NOPB                  |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| ADC141S625CIMMX/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LM25118MH/NOPB                                               | LM5035MH/NOPB                        | SM72240MFX-3.08/NOPB                  |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| DAC121S101CIMMX/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LM25118MHE/NOPB                                              | LM5035MHX/NOPB                       | SM72240MFX-4.63/NOPB                  |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1402MT/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LM25118MHX/NOPB                                              | LM5039MH/NOPB                        | SM73301MF/NOPB                        |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1402MTE/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LM2743MTC/J7002889                                           | LM5039MHX/NOPB                       | SM73301MFE/NOPB                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1402MTX/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LM2743MTCX/J7002890                                          | LM5085MM/NOPB                        | SM73301MFX/NOPB                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1439MA/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <del>LM317KTTR</del>                                         | LM5085MME/NOPB                       | SM73303MM/NOPB                        |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1439MAE/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <del>LM317KTTRG3</del>                                       | LM5085MMX/NOPB                       | SM73303MME/NOPB                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |
| EMB1439MAX/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <del>LM337KTTR</del>                                         | LM5085MY/NOPB                        | SM73303MMX/NOPB                       |                          |                                 |              |                  |     |           |         |                             |                  |                                 |       |                  |                                      |

|                   |                     |                     |                    |
|-------------------|---------------------|---------------------|--------------------|
| EMB1485MF/NOPB    | LM337KTTRG3         | LM5085MYE/NOPB      | SM73306MA/NOPB     |
| EMB1485MFE/NOPB   | LM3407MY/NOPB       | LM5085MYX/NOPB      | SM73306MAE/NOPB    |
| EMB1485MFX/NOPB   | LM3407MYX/NOPB      | LM5100CMY/NOPB      | SM73306MAX/NOPB    |
| LDC5553MM-1/NOPB  | LM3431AMH/NOPB      | LM5100CME/NOPB      | SM73403MF/NOPB     |
| LDC5553MME-1/NOPB | LM3431AMHX/NOPB     | LM5100CMYX/NOPB     | SM73403MFE/NOPB    |
| LDC5553MMX-1/NOPB | LM3431MH/NOPB       | LM5101CMY/NOPB      | SM73403MFX/NOPB    |
| LDC6994BIME/NOPB  | LM3431MHX/NOPB      | LM5101CME/NOPB      | TL2575-05IKTTR     |
| LDC6994BIMX/NOPB  | LM3447MT/NOPB       | LM5101CMYX/NOPB     | TL2575-05IKTTRG3   |
| LDC963ACM3/NOPB   | LM3447MTE/NOPB      | LM5118MH/NOPB       | TL2575-12IKTTR     |
| LDC963ACM3E/NOPB  | LM3447MTX/NOPB      | LM5118MHX/NOPB      | TL2575-15IKTTR     |
| LDC963ACM3X/NOPB  | LM3724EM5-3.08/NOPB | LM7372MR            | TL2575-33IKTTR     |
| LDC963BIM3/NOPB   | LM4050CEM3-8.2/NO   | LM7372MR/NOPB       | TL2575-ADJIKTTR    |
| LDC963BIM3E/NOPB  | LM5015MH/NOPB       | LM7372MRX           | TL2575-ADJIKTTRG3  |
| LDC963BIM3X/NOPB  | LM5015MHE/NOPB      | LM7372MRX/NOPB      | TL2575HV-05IKTTR   |
| LDC963CIM3/NOPB   | LM5015MHX/NOPB      | LMC555IM/NOPB       | TL2575HV-05IKTTRG3 |
| LDC963CIM3E/NOPB  | LM5021MM-1/NOPB     | LMC555IMX/NOPB      | TL2575HV-12IKTTR   |
| LDC963CIM3X/NOPB  | LM5021MM-1/S7003080 | LMC8101MMX/NOPB     | TL2575HV-12IKTTRG3 |
| LDCV963AIM5/NOPB  | LM5021MM-2/NOPB     | LME49726MY/NOPB     | TL2575HV-15IKTTR   |
| LDCV963AIM5E/NOPB | LM5021MMX-1/NOPB    | LME49726MYX/NOPB    | TL2575HV-33IKTTR   |
| LDCV963AIM5X/NOPB | LM5021MMX-2         | LMP2012MM/CY        | TL2575HV-ADJIKTTR  |
| LHV720MA/NOPB     | LM5021MMX-2/NOPB    | LMV342MMX/MESN      | TL750L05CKTTR      |
| LHV720MAX/NOPB    | LM5027AMH/NOPB      | LMV602MM/NOPB       | TL750L05CKTTRG3    |
| LM1971M           | LM5027AMHX/NOPB     | LMV602MMX/NOPB      | TL780-05CKTTR      |
| LM1971M/NOPB      | LM5027MH/NOPB       | LMV604MT/NOPB       | TL780-05CKTTRG3    |
| LM1971MX          | LM5027MH-1/NOPB     | LMV604MTX/NOPB      | TL783CKTTR         |
| LM1971MX/NOPB     | LM5027MHX/NOPB      | LMV611MF/NOPB       | TL783CKTTRG3       |
| LM25085AMM/NOPB   | LM5027MHX-1/NOPB    | LMV611MFX/NOPB      | TLV1117-50CKTTR    |
| LM25085AMME/NOPB  | LM5034MTCX/S7002252 | LMV612MM/NOPB       | TLV1117CKTTR       |
| LM25085AMMX/NOPB  | LM5034MTCX/S7003093 | LMV612MMX/NOPB      | TLV1117CKTTRG3     |
| LM25085AMY/NOPB   | LM5035AMH/NOPB      | LMV614MT/NOPB       | TLV1117IKTTR       |
| LM25085AMYE/NOPB  | LM5035AMH-1/NOPB    | LMV614MTX/NOPB      | TLV1117IKTTRG3     |
| LM25085AMYX/NOPB  | LM5035AMHX/NOPB     | LMV722MM/MESN       | UA7805CKTTR        |
| LM25085MM/NOPB    | LM5035AMHX-1/NOPB   | LMV7271MFX/HFLF     | UA7805CKTTRG3      |
| LM25085MME/NOPB   | LM5035BMH/NOPB      | LMV7271MFX/NOPB     | UA7812CKTTR        |
| LM25085MMX/NOPB   | LM5035BMHX/NOPB     | LMV774MT/CY         | UA7812CKTTRG3      |
| LM25085MY/NOPB    | LM5035CMH/NOPB      | SM72240MF-3.08/NOPB | UA7815CKTTR        |
| LM25085MYE/NOPB   | LM5035CMHX/NOPB     | SM72240MF-4.63/NOPB | UA7905CKTTR        |

| Qualification Data: Approved June, 2009                                                                                                                                                    |                              |                      |                   |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-------------------|-------|--|
| This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications. |                              |                      |                   |       |  |
| Qual Vehicle 1: TLE4275QKTTRQ1 (MSL3 260C)                                                                                                                                                 |                              |                      |                   |       |  |
| Package Construction Details                                                                                                                                                               |                              |                      |                   |       |  |
| Assembly Site:                                                                                                                                                                             | NFME                         | Mold Compound:       | R-07              |       |  |
| # Pins-Designator, Family:                                                                                                                                                                 | 5-KTT, TO-263                | Mount Compound:      | A-05              |       |  |
| Lead frame (Finish, Base):                                                                                                                                                                 | Cu, Matte Sn                 | Bond Wire, Diameter: | 2.0 mil Cu wire   |       |  |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results                                                                                              |                              |                      |                   |       |  |
| Reliability Test                                                                                                                                                                           | Conditions                   | Sample Size/Fail     |                   |       |  |
|                                                                                                                                                                                            |                              | Lot 1                | Lot 2             | Lot 3 |  |
| **Temperature Cycle                                                                                                                                                                        | -65/150C (750 cycles)        | 75/0                 | 75/0              | 77/0  |  |
| **High Temperature Storage                                                                                                                                                                 | 150C (1000 hrs)              | 50/0                 | -                 | -     |  |
| **Autoclave                                                                                                                                                                                | 121C (96 hrs)                | 84/0                 | 82/0              | 82/0  |  |
| **Biased HAST                                                                                                                                                                              | 130C/85%RH (240 hrs)         | 79/0                 | 79/0              | 85/0  |  |
| Note: **Preconditioning: MSL 3@260C                                                                                                                                                        |                              |                      |                   |       |  |
| Reference Qualification Data: Approved May, 2013                                                                                                                                           |                              |                      |                   |       |  |
| Qual Vehicle 2: LMC7101AIM5 /NOPB (MSL 1-260C)                                                                                                                                             |                              |                      |                   |       |  |
| Package Construction Details                                                                                                                                                               |                              |                      |                   |       |  |
| Assembly Site:                                                                                                                                                                             | TIEM                         | Mount Compound:      | 8075531           |       |  |
| # Pins-Designator, Family:                                                                                                                                                                 | 5-DBV, SOT                   | Mold Compound:       | 8095181           |       |  |
| Leadframe (Finish, Base):                                                                                                                                                                  | Matte Sn, Cu                 | Bond Wire:           | 0.96 Mil Dia., Cu |       |  |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results                                                                                              |                              |                      |                   |       |  |
| Reliability Test                                                                                                                                                                           | Conditions                   | Sample Size / Fail   |                   |       |  |
|                                                                                                                                                                                            |                              | Lot 1                | Lot 2             | Lot 3 |  |
| **High Temp. Storage Bake                                                                                                                                                                  | 150C (500, 1000 Hrs)         | 77/0                 | --                | --    |  |
| **Biased HAST                                                                                                                                                                              | 130C/85%/33.3 psia (96 hrs), | 77/0                 | 77/0              | 77/0  |  |
| **Autoclave                                                                                                                                                                                | 121C (96 hrs)                | 77/0                 | 77/0              | 77/0  |  |
| ** Temperature Cycle                                                                                                                                                                       | -65C/+150C (500 Cyc)         | 77/0                 | 77/0              | 77/0  |  |
| Note: **Preconditioning: MSL 1@260C                                                                                                                                                        |                              |                      |                   |       |  |
| Reference Qualification Data: Approved July, 2014                                                                                                                                          |                              |                      |                   |       |  |
| Qual Vehicle 3: LM431CCM3 /NOPB (MSL1-235C)                                                                                                                                                |                              |                      |                   |       |  |
| Package Construction Details                                                                                                                                                               |                              |                      |                   |       |  |
| Assembly Site:                                                                                                                                                                             | TIEM                         | Mount Compound:      | 8075531           |       |  |
| # Pins-Designator, Family:                                                                                                                                                                 | 3-DBV, SOT                   | Mold Compound:       | 8095181           |       |  |
| Leadframe (Finish, Base):                                                                                                                                                                  | Matte Sn, Cu                 | Bond Wire:           | 0.96 Mil Dia., Cu |       |  |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results                                                                                              |                              |                      |                   |       |  |
| Reliability Test                                                                                                                                                                           | Conditions                   | Sample Size / Fail   |                   |       |  |
|                                                                                                                                                                                            |                              | Lot 1                | Lot 2             | Lot 3 |  |
| **Autoclave                                                                                                                                                                                | 121C (96 hrs)                | 77/0                 | 77/0              | 77/0  |  |
| **Temperature Cycle                                                                                                                                                                        | -65C/+150C (500 Cyc)         | 77/0                 | 77/0              | 77/0  |  |
| **High Temp. Storage Bake                                                                                                                                                                  | 150C (500, 1000 Hrs)         | 77/0                 | 77/0              | 77/0  |  |

Note: \*\*Preconditioning: MSL 1@235C

| Reference Qualification Data: Approved April, 2004                                            |                      |                    |                  |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|------------------|-------|
| Qual Vehicle 4: LM2594HVM-ADJ (MSL 1-235C)                                                    |                      |                    |                  |       |
| Package Construction Details                                                                  |                      |                    |                  |       |
| Assembly Site:                                                                                | TIEM                 | Mound Compound:    | 8075531          |       |
| # Pins-Designator, Family:                                                                    | 8-D, SOIC            | Mold Compound:     | 8095181          |       |
| Leadframe (Finish, Base):                                                                     | SnPb, Cu             | Bond Wire:         | 1.5 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                  |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                  |       |
|                                                                                               |                      | Lot 1              | Lot 2            | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 77/0               | 77/0             | 77/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0             | 77/0  |
| Note: **Preconditioning: MSL 1@235C                                                           |                      |                    |                  |       |

| Reference Qualification Data: Approved October, 2012                                          |                      |                    |                |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|----------------|-------|
| Qual Vehicle 5: LMC6482AIM / NOPB (MSL 1-260C)                                                |                      |                    |                |       |
| Package Construction Details                                                                  |                      |                    |                |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531        |       |
| # Pins-Designator, Family:                                                                    | 8-D, SOIC            | Mold Compound:     | 8095181        |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 1 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                |       |
|                                                                                               |                      | Lot 1              | Lot 2          | Lot 3 |
| **Biased HAST                                                                                 | 130C/85%RH (96 Hrs)  | 77/0               | 77/0           | 77/0  |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 77/0               | 77/0           | 77/0  |
| **High Temperature Storage                                                                    | 150C (1000 hrs)      | 77/0               | 77/0           | --    |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0           | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                |       |

| Reference Qualification Data: Approved January, 2014                                          |                      |                    |                |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|----------------|-------|
| Qual Vehicle 6: LMC6482IMMNOPB (MSL 1-260C)                                                   |                      |                    |                |       |
| Package Construction Details                                                                  |                      |                    |                |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531        |       |
| # Pins-Designator, Family:                                                                    | 8-DGK, MSOP          | Mold Compound:     | 8096859        |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 1 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                |       |
|                                                                                               |                      | Lot 1              | Lot 2          | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 80/0               | 80/0           | 80/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0           | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                |       |

| Reference Qualification Data: Approved May, 2013                                              |                      |                    |                   |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------|-------|
| Qual Vehicle 7: LMV852MMX/NOPB (MSL 1-260C)                                                   |                      |                    |                   |       |
| Package Construction Details                                                                  |                      |                    |                   |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531           |       |
| # Pins-Designator, Family:                                                                    | 8-DGK, MSOP          | Mold Compound:     | 8096859           |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 0.96 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                   |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                   |       |
|                                                                                               |                      | Lot 1              | Lot 2             | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 80/0               | 80/0              | 80/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0              | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                   |       |

| Reference Qualification Data: Approved July, 2014                                             |                       |                    |                   |       |
|-----------------------------------------------------------------------------------------------|-----------------------|--------------------|-------------------|-------|
| Qual Vehicle 8: LMV852MM /NOPB (MSL 1-260C)                                                   |                       |                    |                   |       |
| Package Construction Details                                                                  |                       |                    |                   |       |
| Assembly Site:                                                                                | TIEM                  | Mount Compound:    | 8075531           |       |
| # Pins-Designator, Family:                                                                    | 8-DGK, MSOP           | Mold Compound:     | 4209002           |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu          | Bond Wire:         | 0.96 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                       |                    |                   |       |
| Reliability Test                                                                              | Conditions            | Sample Size / Fail |                   |       |
|                                                                                               |                       | Lot 1              | Lot 2             | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs)  | 77/0               | 77/0              | 77/0  |
| **Temperature Cycle                                                                           | -65C/ +150C (500 Cyc) | 77/0               | 77/0              | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                       |                    |                   |       |

| Reference Qualification Data: Approved June, 2013                                             |                      |                    |                  |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|------------------|-------|
| Qual Vehicle 9: LM5037MT / NOPB (MSL 1-260C)                                                  |                      |                    |                  |       |
| Package Construction Details                                                                  |                      |                    |                  |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531          |       |
| # Pins-Designator, Family:                                                                    | 16-PW, TSSOP         | Mold Compound:     | 8095181          |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 1.0 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                  |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                  |       |
|                                                                                               |                      | Lot 1              | Lot 2            | Lot 3 |
| **Biased Temp. Humidity                                                                       | 85C/85%RH (1000 hrs) | 77/0               | 77/0             | 77/0  |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 77/0               | 77/0             | 77/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0             | 77/0  |
| ** High Temperature Storage                                                                   | 150C (1000 hrs)      | 77/0               | 77/0             | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                  |       |

| Reference Qualification Data: Approved July, 2014                                             |                      |                    |                   |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------|-------|
| Qual Vehicle 10: LM3657MH/NOPB (MSL 1-260C)                                                   |                      |                    |                   |       |
| Package Construction Details                                                                  |                      |                    |                   |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531           |       |
| # Pins-Designator, Family:                                                                    | 14-PWP, TSSOP        | Mold Compound:     | 8095181           |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 0.96 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                   |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                   |       |
|                                                                                               |                      | Lot 1              | Lot 2             | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 77/0               | 77/0              | 77/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0              | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                   |       |

| Reference Qualification Data: Approved July, 2014                                             |                      |                    |                   |       |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------|-------|
| Qual Vehicle 11: SCANSTA111MTX (MSL 1-260C)                                                   |                      |                    |                   |       |
| Package Construction Details                                                                  |                      |                    |                   |       |
| Assembly Site:                                                                                | TIEM                 | Mount Compound:    | 8075531           |       |
| # Pins-Designator, Family:                                                                    | 48-DGG, TSSOP        | Mold Compound:     | 8095181           |       |
| Leadframe (Finish, Base):                                                                     | Matte Sn, Cu         | Bond Wire:         | 0.96 Mil Dia., Cu |       |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results |                      |                    |                   |       |
| Reliability Test                                                                              | Conditions           | Sample Size / Fail |                   |       |
|                                                                                               |                      | Lot 1              | Lot 2             | Lot 3 |
| **Autoclave 121C                                                                              | 121C, 2 ATM (96 hrs) | 77/0               | 77/0              | 77/0  |
| **Temperature Cycle                                                                           | -65C/+150C (500 Cyc) | 77/0               | 77/0              | 77/0  |
| Note: **Preconditioning: MSL 1@260C                                                           |                      |                    |                   |       |

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          | <a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a> |
| Europe       | <a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>     |
| Asia Pacific | <a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>         |
| Japan        | <a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>       |