

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |                          |                                        |                          |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------|----------------------------------------|--------------------------|---------------------|
| <b>PCN Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20230515000.1A                                      |                          |                                        | <b>PCN Date:</b>         | July 13, 2023       |
| <b>Title:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qualification of new BOM for select package Devices |                          |                                        |                          |                     |
| <b>Customer Contact:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Change Management                                   |                          | <b>Dept:</b>                           | Quality Services         |                     |
| <b>Proposed 1<sup>st</sup> Ship Date:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aug 16, 2023                                        |                          | <b>Sample requests accepted until:</b> | June 16, 2023*           |                     |
| *Sample requests received after June 16, 2023 will not be supported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |                          |                                        |                          |                     |
| <b>Change Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     |                          |                                        |                          |                     |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Assembly Site                                       | <input type="checkbox"/> | Design                                 | <input type="checkbox"/> | Wafer Bump Material |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Assembly Process                                    | <input type="checkbox"/> | Data Sheet                             | <input type="checkbox"/> | Wafer Bump Process  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Assembly Materials                                  | <input type="checkbox"/> | Part number change                     | <input type="checkbox"/> | Wafer Fab Site      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mechanical Specification                            | <input type="checkbox"/> | Test Site                              | <input type="checkbox"/> | Wafer Fab Material  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Packing/Shipping/Labeling                           | <input type="checkbox"/> | Test Process                           | <input type="checkbox"/> | Wafer Fab Process   |
| <b>PCN Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |                          |                                        |                          |                     |
| <b>Description of Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                          |                                        |                          |                     |
| <p><b>Revision A</b> is to remove devices in the Product Affected Section (in <b>bold</b> character with <del>strike through</del>). This device will continue to be manufactured as prior and will not be subjected to the change described in this notification.</p> <p>Texas Instruments Incorporated is announcing the qualification of new material set for the devices listed in the "Product Affected" Section. Devices will remain at current location.</p>                                                                                                                                                                                                                                                               |                                                     |                          |                                        |                          |                     |
| <b>Material Difference:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |                          |                                        |                          |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Current</b>                                      | <b>Proposed</b>          |                                        |                          |                     |
| Lead finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NiPdAu                                              | Matte Sn                 |                                        |                          |                     |
| <p>Upon expiration of this PCN, TI will combine lead free solutions in a single <u><a href="#">standard part number</a></u>, for example; <u><a href="#">SN566230RJER</a></u> – can ship with both Matte Sn and NiPdAu.</p> <p>Example:</p> <ul style="list-style-type: none"> <li>– Customer order for 7500 units of SN566230RJER with 2500 units SPQ (Standard Pack Quantity per Reel).</li> <li>– TI can satisfy the above order in one of the following ways. <ul style="list-style-type: none"> <li>I. 3 Reels of NiPdAu finish.</li> <li>II. 3 Reels of Matte Sn finish</li> <li>III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish.</li> <li>IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.</li> </ul> </li> </ul> |                                                     |                          |                                        |                          |                     |
| <b>Reason for Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |                          |                                        |                          |                     |
| Continuity of supply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |                          |                                        |                          |                     |
| <b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |                          |                                        |                          |                     |
| None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |                          |                                        |                          |                     |
| <b>Impact on Environmental Ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |                          |                                        |                          |                     |

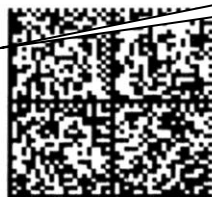
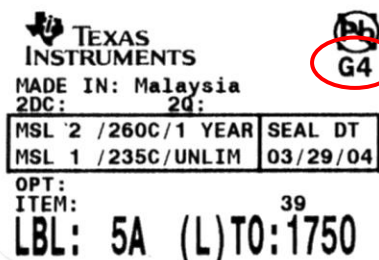
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

| RoHS                                          | REACH                                         | Green Status                                  | IEC 62474                                     |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| <input checked="" type="checkbox"/> No Change | <input checked="" type="checkbox"/> No Change | <input checked="" type="checkbox"/> No Change | <input checked="" type="checkbox"/> No Change |

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

Sample product shipping label (not actual product label)

G4 = NiPdAu  
G3 = Matte Sn



(1P) SN74LS07NSR  
(Q) 2000 (D) 0336  
(31T) LOT: 3959047MLA  
(4W) TKY (1T) 7523483SI2  
(P)  
(2P) REV: (V) 0033317  
(20L) CS0: SHE (21L) CC0:USA  
(22L) AS0: MLA (23L) AC0: MYS

#### Product Affected:

|                              |               |                   |                |
|------------------------------|---------------|-------------------|----------------|
| 74AVC1T45DBVR                | TLV9001IDBVR  | SN1601022DBVT     | TPS56C231LRNNR |
| 905X0205100                  | TLV9001RIDBVR | SN1603041DBVR     | TPS613221ADBVR |
| LM321LVIDBVR                 | TLV9001RIDBVT | SN1603041DBVT     | TPS613221ADBVT |
| LM321MF                      | TLV9001SIDBVR | SN1603833DBVR     | TPS613222ADBVR |
| <b>LM321MF/NOPB</b>          | TLV9001SIDBVT | SN1805022IDBVR    | TPS613222ADBVT |
| LM321MFX                     | TLV9001UIDBVR | SN1901027DBVR     | TPS613223ADBVR |
| <b>LM321MFX/NOPB</b>         | TLV9041IDBVR  | SN2001075ARW ZR   | TPS613223ADBVT |
| LMC7101AIM5                  | TLV9041SIDBVR | SN2001076ARW ZR   | TPS613226ADBVR |
| <b>LMC7101AIM5/NOPB</b>      | TLV9041UIDBVR | SN74AXC1T45DBVR   | TPS613226ADBVT |
| <b>LMC7101AIM5X/NOPB</b>     | TLV9051IDBVR  | SN74AXCH1T45DBVR  | TPS62441RQRR   |
| LMC7101BIM5                  | TLV9051SIDBVR | SN74LVC1G3157DBVR | TPS62442RQRR   |
| <b>LMC7101BIM5/NOPB</b>      | TLV9061IDBVR  | SN74LXC1T45DBVR   | TPS76138DBVR   |
| LMC7101BIM5X                 | TLV9061SIDBVR | SNHYNXLTDLJR      | TPS76138DBVT   |
| <b>LMC7101BIM5X/NOPB</b>     | TLV9101IDBVR  | TAS2763RPPR       | TPS76925DBVR   |
| LMC7101BIM5X/S7001246        | TLV9101SIDBVR | TAS2781DCRYR      | TPS76925DBVT   |
| <b>LMC7101BIM5X/S7002311</b> | TLV9151IDBVR  | TL071HIDBVR       | TPS76933DBVT   |
| LMR33630CRNXT                | TLV9151SIDBVR | TL081HIDBVR       | TPS78401DBVR   |
| LMR50410XDBVR                | TLV9161IDBVR  | TL331BIDBVR       | TPS78833DBVR   |
| LMR50410XFDBVR               | TLV9161SIDBVR | TL391BIDBVR       | TPS78833DBVT   |
| LMR54406DBVR                 | TLV9301IDBVR  | TLV1805DBVR       | TPS7A0208PDBVR |
| LMR54406FDBVR                | TLV9351IDBVR  | TLV2241IDBVR      | TPS7A0212PDBVR |
| LMR54410DBVR                 | TLV9351SIDBVR | TLV2241IDBVT      | TPS7A0212PDBVT |
| LMR54410FDBVR                | TLV9361IDBVR  | TLV2401CDBVR      | TPS7A0215PDBVR |
| LMV321AIDBVR                 | TMUX1101DBVR  | TLV2401CDBVT      | TPS7A0215PDBVT |
| LMV321AUIDBVR                | TMUX1102DBVR  | TLV2401IDBVR      | TPS7A0218PDBVR |
| LMV321IDBVT                  | TPS2001DDBVR  | TLV3401CDBVR      | TPS7A0218PDBVT |
| LP2980AIM5-3.0               | TPS2001DDBVT  | TLV3401CDBVT      | TPS7A0220PDBVR |
| <b>LP2980AIM5-3.0/NOPB</b>   | TPS2041CDBVR  | TLV6001IDBVR      | TPS7A0220PDBVT |
| LP2980AIM5-3.3               | TPS2041CDBVT  | TLV6001IDBVT      | TPS7A0222PDBVR |
| <b>LP2980AIM5-3.3/NOPB</b>   | TPS2051CDBVR  | TLV6001UIDBVR     | TPS7A0222PDBVT |

|                             |                  |               |                   |
|-----------------------------|------------------|---------------|-------------------|
| LP2980AIM5-5.0              | TPS2051CDBVT     | TLV6001UIDBVT | TPS7A0223PDBVR    |
| <b>LP2980AIM5-5.0/NOPB</b>  | TPS2061CDBVR     | TLV6003DBVR   | TPS7A0223PDBVT    |
| <b>LP2980AIM5X-3.0/NOPB</b> | TPS2061CDBVT     | TLV61046ADBVR | TPS7A0225PDBVR    |
| LP2980AIM5X-3.3             | TPS2065CDBVR     | TLV61046ADBVT | TPS7A0225PDBVT    |
| <b>LP2980AIM5X-3.3/NOPB</b> | TPS2065CDBVR-2   | TLV61046DBVR  | TPS7A0228PDBVR    |
| <b>LP2980AIM5X-5.0/NOPB</b> | TPS2065CDBVT     | TLV61046DBVT  | TPS7A0228PDBVR-LF |
| <b>LP2980IM5-3.0/NOPB</b>   | TPS2065CDBVT-2   | TLV61048DBVR  | TPS7A0228PDBVT    |
| LP2980IM5-3.3               | TPS2065DDBVR     | TLV61048DBVT  | TPS7A0230PDBVR    |
| <b>LP2980IM5-3.3/NOPB</b>   | TPS2065DDBVT     | TLV61070DBVT  | TPS7A0230PDBVT    |
| <b>LP2980IM5-5.0/NOPB</b>   | TPS2069CDBVR     | TLV62565DBVR  | TPS7A0233PDBVR    |
| <b>LP2980IM5X-3.0/NOPB</b>  | TPS2069CDBVT     | TLV62565DBVT  | TPS7A0233PDBVT    |
| LP2980IM5X-3.3              | TPS2069DDBVR     | TLV62566DBVR  | TPS7A0236PDBVR    |
| <b>LP2980IM5X-3.3/NOPB</b>  | TPS2069DDBVT     | TLV62566DBVT  | TPS7A0236PDBVT    |
| <b>LP2980IM5X-5.0/NOPB</b>  | TPS22810DBVR     | TLV62568DBVR  | TPS7A0250PDBVR    |
| LP2985AIM5-3.3              | TPS22810DBVT     | TLV62568DBVT  | TPS7A0312PDBVR    |
| <b>LP2985AIM5-3.3/NOPB</b>  | TPS22811LRPWR    | TLV62569DBVR  | TPS7A0312PDBVT    |
| LP2985AIM5-5.0              | TPS22917DBVR     | TLV62569DBVT  | TPS7A0315PDBVR    |
| <b>LP2985AIM5-5.0/NOPB</b>  | TPS22917DBVT     | TLV70133DBVR  | TPS7A0315PDBVT    |
| <b>LP2985AIM5X-3.3/NOPB</b> | TPS22917LDBVR    | TLV70133DBVT  | TPS7A0318PDBVR    |
| <b>LP2985AIM5X-5.0/NOPB</b> | TPS22918DBVR     | TLV70212DBVR  | TPS7A0318PDBVT    |
| LP2985IM5-3.3               | TPS22918DBVT     | TLV70212DBVT  | TPS7A0320PDBVR    |
| <b>LP2985IM5-3.3/NOPB</b>   | TPS22997RYZR     | TLV70213DBVR  | TPS7A0320PDBVT    |
| LP2985IM5-5.0               | TPS2513DBVR      | TLV70213DBVT  | TPS7A0322PDBVR    |
| <b>LP2985IM5-5.0/NOPB</b>   | TPS2513DBVT      | TLV70215DBVR  | TPS7A0322PDBVT    |
| <b>LP2985IM5X-3.3/NOPB</b>  | TPS2514DBVR      | TLV70215DBVT  | TPS7A0323PDBVR    |
| LP2985IM5X-3.3/S5001421     | TPS2514DBVT      | TLV70218DBVR  | TPS7A0323PDBVT    |
| LP2985IM5X-5.0              | TPS25221DBVR     | TLV70218DBVT  | TPS7A0325PDBVR    |
| <b>LP2985IM5X-5.0/NOPB</b>  | TPS25221DBVT     | TLV70225DBVR  | TPS7A0325PDBVT    |
| LP3470A263DBVR              | TPS2552DBVR      | TLV70225DBVT  | TPS7A0328PDBVR    |
| LP3470A275DBVR              | TPS2552DBVT      | TLV70228DBVR  | TPS7A0328PDBVT    |
| LP3470A293DBVR              | TPS2552DDBVR     | TLV70228DBVT  | TPS7A0330PDBVR    |
| LP3470A308DBVR              | TPS2552DDBVT     | TLV70229DBVR  | TPS7A0330PDBVT    |
| LP3470A365DBVR              | TPS2553DBVR      | TLV70229DBVT  | TPS7A0331PDBVR    |
| LP3470A400DBVR              | TPS2553DBVR-1    | TLV70230DBVR  | TPS7A0331PDBVT    |
| LP3470A438DBVR              | TPS2553DBVT      | TLV70230DBVT  | TPS7A0333PDBVR    |
| LP3470A463DBVR              | TPS2553DBVT-1    | TLV70231DBVR  | TPS7A0333PDBVT    |
| <b>LP5907MFX-1.2/NOPB</b>   | TPS2553DDBVR     | TLV70231DBVT  | TPS7A0336PDBVR    |
| <b>LP5907MFX-1.5/NOPB</b>   | TPS2553DDBVT     | TLV70233DBVR  | TPS7A0336PDBVT    |
| <b>LP5907MFX-2.5/NOPB</b>   | TPS259814ARPWR   | TLV70233DBVT  | TPS7A0508PDBVR    |
| <b>LP5907MFX-2.8/NOPB</b>   | TPS3840ADL18DBVR | TLV70235DBVR  | TPS7A0508PDBVT    |
| <b>LP5907MFX-2.9/NOPB</b>   | TPS3840ADL27DBVR | TLV70235DBVT  | TPS7A0510PDBVR    |
| <b>LP5907MFX-3.0/NOPB</b>   | TPS3840ADL29DBVR | TLV70237DBVR  | TPS7A0510PDBVT    |
| <b>LP5907MFX-3.1/NOPB</b>   | TPS3840ADL30DBVR | TLV70237DBVT  | TPS7A0512PDBVR    |
| <b>LP5907MFX-3.2/NOPB</b>   | TPS3840ADL32DBVR | TLV70245DBVR  | TPS7A0512PDBVT    |
| <b>LP5907MFX-3.3/NOPB</b>   | TPS3840APL20DBVR | TLV70245DBVT  | TPS7A0515PDBVR    |
| <b>LP5907MFX-4.5/NOPB</b>   | TPS3840APL27DBVR | TLV702475DBVR | TPS7A0515PDBVT    |

|                   |                    |                  |                 |
|-------------------|--------------------|------------------|-----------------|
| LPV821DBVR        | TPS3840APL28DBVR   | TLV702475DBVT    | TPS7A0518PDBVR  |
| LPV821DBVT        | TPS3840APL30DBVR   | TLV70433DBVR     | TPS7A0518PDBVT  |
| LV3842XDBVR       | TPS3840APL40DBVR   | TLV70433DBVT     | TPS7A0522PDBVR  |
| LV3842XDBVT       | TPS3840DL16DBVR    | TLV70436DBVR     | TPS7A0522PDBVT  |
| LV3842XFDBVR      | TPS3840DL17DBVR    | TLV70436DBVT     | TPS7A0525PDBVR  |
| LV3842XFDBVT      | TPS3840DL18DBVR    | TLV71209DBVR     | TPS7A0525PDBVT  |
| MCP6291IDBVR      | TPS3840DL18DBVR-SM | TLV71209DBVT     | TPS7A05285PDBVR |
| OPA1677DBVR       | TPS3840DL19DBVR    | TLV71210DBVR     | TPS7A05285PDBVT |
| OPA1677DBVT       | TPS3840DL20DBVR    | TLV71210DBVT     | TPS7A0530PDBVR  |
| OPA607IDBVR       | TPS3840DL22DBVR    | TLV71211DBVR     | TPS7A0530PDBVT  |
| OPA607IDBVT       | TPS3840DL24DBVR    | TLV71211DBVT     | TPS7A0531PDBVR  |
| OPA990IDBVR       | TPS3840DL25DBVR    | TLV74010PDBVR    | TPS7A0531PDBVT  |
| OPA990SIDBVR      | TPS3840DL27DBVR    | TLV74018PDBVR    | TPS7A0533PDBVR  |
| OPA991IDBVR       | TPS3840DL28DBVR    | TLV74033PDBVR    | TPS7A0533PDBVT  |
| OPA991SIDBVR      | TPS3840DL29DBVR    | TLV75509PDBVR    | TPS7A2009PDBVR  |
| OPA992IDBVR       | TPS3840DL30DBVR    | TLV75510PDBVR    | TPS7A2012PDBVR  |
| OPA992SIDBVR      | TPS3840DL31DBVR    | TLV75511PDBVR    | TPS7A2015PDBVR  |
| P840CADLUUDBVR    | TPS3840DL35DBVR    | TLV75511PDBVT    | TPS7A20185PDBVR |
| P840MADLUUDBVR    | TPS3840DL40DBVR    | TLV75512PDBVR    | TPS7A2018PDBVR  |
| P840MAPH29DBVR    | TPS3840DL42DBVR    | TLV75515PDBVR    | TPS7A2024PDBVR  |
| P840MAPL28DBVRQ1  | TPS3840DL44DBVR    | TLV75518PDBVR    | TPS7A2025PDBVR  |
| P840NADLUUDBVR    | TPS3840DL45DBVR    | TLV75519PDBVR    | TPS7A20285PDBVR |
| PQ25792DCRQMR     | TPS3840DL46DBVR    | TLV75525PDBVR    | TPS7A2028PDBVR  |
| PSN74AXCH1T45DBVR | TPS3840DL49DBVR    | TLV75528PDBVR    | TPS7A2029PDBVR  |
| PSN74LXC1T45DBVR  | TPS3840PH18DBVR    | TLV75529PDBVR    | TPS7A2030PDBVR  |
| PTAS2780B0RYAR    | TPS3840PH19DBVR    | TLV75529PDBVT    | TPS7A2031PDBVR  |
| PTLV840CADL11DBVR | TPS3840PH27DBVR    | TLV75530PDBVR    | TPS7A2032PDBVR  |
| PTLV840CADL40DBVR | TPS3840PH30DBVR    | TLV75530PDBVT    | TPS7A2033PDBVR  |
| PTLV840CAPL29DBVR | TPS3840PH40DBVR    | TLV75533PDBVR    | TPS7A2036PDBVR  |
| PTLV840MAPL29DBVR | TPS3840PH45DBVR    | TLV75550PDBVT    | TPS7A2042PDBVR  |
| PTLV840MAPL30DBVR | TPS3840PH49DBVR    | TLV75709PDBVR    | TPS7A2045PDBVR  |
| PTLV840NADL35DBVR | TPS3840PL16DBVR    | TLV75710PDBVR    | TPS7A2050PDBVR  |
| PTLV840NAPL29DBVR | TPS3840PL18DBVR    | TLV75712PDBVR    | TPS7A2055PDBVR  |
| PTLV8541DBVT      | TPS3840PL20DBVR    | TLV75715PDBVR    | TPS7A24125DBVR  |
| PTLV9001RIDBVR    | TPS3840PL25DBVR    | TLV75718PDBVR    | TPS7A2418DBVR   |
| PTLV9001SIDBVT    | TPS3840PL26DBVR    | TLV75719PDBVR    | TPS7A2425DBVR   |
| PTLV9061IDBVT     | TPS3840PL27DBVR    | TLV75725PDBVR    | TPS7A2430DBVR   |
| PTPS2001DDBVT     | TPS3840PL28DBVR    | TLV75728PDBVR    | TPS7A2433DBVR   |
| PTPS22918DBVR     | TPS3840PL29DBVR    | TLV75729PDBVR    | TPS7A2436DBVR   |
| PTPS22918DBVT     | TPS3840PL30DBVR    | TLV75730DBVR     | TPS7A2450DBVR   |
| PTPS22992RXNR     | TPS3840PL31DBVR    | TLV75730DBVT     | TPS92612DBVR    |
| PTPS22992RXPR     | TPS3840PL33DBVR    | TLV75730PDBVR    | TPSJB4AMPDLJR   |
| PTPS22992RXQR     | TPS3840PL34DBVR    | TLV75730PDBVT    | TS321LVIDBVR    |
| PTPS22992SRXNR    | TPS3840PL40DBVR    | TLV75733PDBVR    | TSV911AIDBVR    |
| PTPS22997RYZR     | TPS3840PL41DBVR    | TLV840CADL11DBVR | UCC27517ADBVR   |
| PTPS259851RQPR    | TPS3840PL42DBVR    | TLV840CADL14DBVR | UCC27517ADBVT   |
| PTPS25990ARQPR    | TPS3840PL43DBVR    | TLV840CADL28DBVR | UCC27517DBVR    |
| PTPS3840ADL27DBVR | TPS3840PL45DBVR    | TLV840CADL29DBVR | UCC27517DBVT    |
| PTPS3840PL40DBVR  | TPS3840PL48DBVR    | TLV840CADL40DBVR | ULC1001DCRQTR   |
| PTPS51383RJNR     | TPS51384RJNR       | TLV840CAPL28DBVR | ULC1001RQTR     |

|                  |                  |                  |                 |
|------------------|------------------|------------------|-----------------|
| PTPS53830ARW ZR  | TPS51386RJNR     | TLV840CAPL29DBVR | X28661P0RQC     |
| PTPS53832ARW ZR  | TPS51487XRJET    | TLV840MADL08DBVR | XSN2001075RW ZR |
| PTPS543320RPYR   | TPS53830ARW ZR   | TLV840MADL13DBVR | XSN2001075RW ZT |
| PTPS543820RPYR   | TPS53832ARW ZR   | TLV840MADL29DBVR | XSN2001076RW ZR |
| PTPS552872RYQR   | TPS552872RYQR    | TLV840MADL30DBVR | XSN2001076RW ZT |
| PTPS61288LRQQR   | TPS552892RYQR    | TLV840MADL52DBVR | XTPS51383RJNR   |
| PTPS61288RQQT    | TPS560430X3FDBVR | TLV840MAPL30DBVR | XTPS51488RJER   |
| PTPS7A0236PDBVR  | TPS560430X3FDBVT | TLV840NADH29DBVR | XTPS53830RW ZR  |
| PTPS7A20185PDBVR | TPS560430XDBVR   | TLV840NADL20DBVR | XTPS53831RW ZR  |
| PTPS7A2024PDBVR  | TPS560430XDBVT   | TLV840NADL29DBVR | XTPS53831RW ZT  |
| PULC1001RQTR     | TPS560430XFDBVR  | TLV840NADL33DBVR | XTPS53832RW ZR  |
| SN1409057DBVR    | TPS560430XFDBVT  | TLV840NADL35DBVR | XTPS55288RPMR   |
| SN1512013DBVR    | TPS560430YDBVR   | TLV840NADL46DBVR | XTPS552892RYQR  |
| SN1512013DBVT    | TPS560430YDBVT   | TLV840NAPL29DBVR | XTPS56C231RNNR  |
| SN1512017DBVR    | TPS560430YFDBVR  | TLV840NAPL50DBVR | XTPS61288RQQR   |
| SN1512017DBVT    | TPS560430YFDBVT  | TLV8541DBVR      |                 |
| SN1601022DBVR    | TPS568231RNNR    | TLV8541DBVT      |                 |

## Qualification Report

Approve Date 03-Apr-2023

### Qualification Results

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

| Type  | #  | Test Name                     | Condition                                                            | Duration   | Qual Device:<br>TPS76933DBVR | Qual Device:<br>TL331IDBVRG4 | Qual Device:<br>TLV9051SIDBVR | Qual Device:<br>TPS2553DDBVR | Qual Device:<br>LV3842XDBVR | QBS<br>Reference:<br>TLV9061IDBVR |
|-------|----|-------------------------------|----------------------------------------------------------------------|------------|------------------------------|------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------------|
| HAST  | A2 | Biased HAST                   | 130C/85%RH                                                           | 96 Hours   | -                            | -                            | -                             | -                            | -                           | 3/231/0                           |
| UHAST | A3 | Unbiased HAST                 | 130C/85%RH                                                           | 96 Hours   | 3/231/0                      | 3/231/0                      | 3/231/0                       | 3/231/0                      | 3/231/0                     | 3/231/0                           |
| TC    | A4 | Temperature Cycle             | -65C/150C                                                            | 500 Cycles | 3/231/0                      | 3/231/0                      | 3/231/0                       | 3/231/0                      | -                           | 3/231/0                           |
| TC    | A4 | Temperature Cycle             | -65C/150C                                                            | 500 Cycles | -                            | -                            | -                             | -                            | 3/231/0                     | -                                 |
| HTSL  | A6 | High Temperature Storage Life | 150C                                                                 | 1000 Hours | 3/231/0                      | 3/231/0                      | 3/231/0                       | 3/231/0                      | 3/231/0                     | -                                 |
| HTSL  | A6 | High Temperature Storage Life | 170C                                                                 | 420 Hours  | -                            | -                            | -                             | -                            | -                           | 3/231/0                           |
| HTOL  | B1 | Life Test                     | 150C                                                                 | 300 Hours  | -                            | -                            | -                             | -                            | -                           | 3/231/0                           |
| WBS   | C1 | Ball Shear                    | 76 balls, 3 units min                                                | Wires      | -                            | -                            | -                             | -                            | -                           | 3/228/0                           |
| WBP   | C2 | Bond Pull                     | 76 Wires, 3 units min                                                | Wires      | -                            | -                            | -                             | -                            | -                           | 3/228/0                           |
| SD    | C3 | PB-Free Solderability         | Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder; | -          | 1/22/0                       | 1/22/0                       | 1/22/0                        | 1/22/0                       | 1/22/0                      | 3/66/0                            |
| PD    | C4 | Physical Dimensions           | (per mechanical drawing)                                             | -          | -                            | -                            | -                             | -                            | -                           | 3/15/0                            |
| FTY   | E6 | Final Test Yield              | -                                                                    | -          | -                            | -                            | -                             | -                            | -                           | 3/3/0                             |

QBS: Qual By Similarity

Qual Device TPS76933DBVR is qualified at MSL1 260C  
Qual Device TL331IDBVRG4 is qualified at MSL1 260C  
Qual Device TLV9051SIDBVR is qualified at MSL1 260C  
Qual Device TPS2553DDBVR is qualified at MSL1 260C  
Qual Device LV3842XDBVR is qualified at MSL1 260C  
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

## Qualification Report

Approve Date 22-June-2021

### Qualification Results

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

| Type  | Test Name / Condition                 | Duration                      | Qual Device:<br>TPS53831RWZR | Qual Device:<br>TPS543620RPYR | Qual Device:<br>TPS62903RPJR | QBS Package<br>Reference:<br>SN62825DMQR | QBS Package<br>Reference:<br>TPS62085RLTR |
|-------|---------------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|------------------------------------------|-------------------------------------------|
| AC    | Autoclave 121C                        | 96 Hours                      | 3/231/0                      | -                             | 3/231/0                      | -                                        | 3/231/0                                   |
| CDM   | ESD - CDM                             | 1500V                         | -                            | -                             | -                            | 2/6/0                                    | -                                         |
| HAST  | Biased HAST, 130C/85%RH               | 96 Hours                      | 2/154/0                      | -                             | -                            | 3/231/0                                  | 3/231/0                                   |
| HBM   | ESD - HBM                             | 3000V                         | -                            | -                             | -                            | 1/3/0                                    | -                                         |
| HTSL  | High Temp Storage Bake 150C           | 1000 Hours                    | -                            | -                             | -                            | -                                        | 3/231/0                                   |
| HTSL  | High Temp Storage Bake 170C           | 420 Hours                     | 3/231/0                      | 3/231/0                       | 3/231/0                      | 3/231/0                                  | -                                         |
| MQ    | Manufacturability (Assembly)          | (per mfg. Site specification) | Pass                         | Pass                          | Pass                         | Pass                                     | Pass                                      |
| MSL   | Thermal Integrity Sequence            | Level 2-260C                  | 3/36/0                       | 3/36/0                        | 3/36/0                       | -                                        | 3/36/0                                    |
| PD    | Physical Dimensions                   | (per mechanical drawing)      | 3/15/0                       | 3/15/0                        | 3/15/0                       | -                                        | 3/15/0                                    |
| SD    | Solderability                         | Pb Free                       | 3/66/0                       | 3/66/0                        | 3/66/0                       | 2/44/0                                   | 3/66/0                                    |
| TC    | Temperature Cycle, -55/125C           | 700 Cycles                    | 3/231/0                      | 3/231/0                       | -                            | -                                        | 3/231/0                                   |
| TC    | Temperature Cycle, -65/150C           | 500 Cycles                    | -                            | -                             | 3/231/0                      | 3/231/0                                  | -                                         |
| UHAST | Unbiased HAST 130C/85%RH              | 96 Hours                      | -                            | 3/231/0                       | -                            | 3/231/0                                  | -                                         |
| VM    | Visual Quality Reliability Inspection | Post Temp Cycle               | 3/6/0                        | 3/6/0                         | 3/6/0                        | -                                        | 3/6/0                                     |

- QBS: Qual By Similarity  
- Qual Device TPS53831RWZR, TPS543620RPYR, TPS62903RPJR are qualified at LEVEL2-260C  
- 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

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.

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