



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Qualification Report for PCN# 20120615000
Conversion to Cu Wire Base Metal for Selected Device(s)
Information Only**

Date:

Dear Customer:

We have sent the Qualification data for 8pin DGK and 10pin DGS last Jan 2013 and following are the Qualification data for the remaining 8pin DGN and 10pin DGQ packages.

Texas Instruments is pleased to announce the completion of qualification testing for the product change described in PCN# 20120615000. The details of the qualification results are included in the following pages and are being forwarded to you in response to your inquiry about this PCN.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

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



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**Qualification Report For # 20120615000
Conversion to Cu Wire Base Metal for Selected Device(s)**

Qualification Data:

| This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications. | | | | |
|---|-------------------------------|------------------------|----------------------|-------|
| Qual Vehicle 1 : TPS40211DGQR (MSL 1-260C) | | | | |
| Package Construction Details | | | | |
| Assembly Site: | ASESH | Mold Compound: | EN2000515 | |
| # Pins-Designator, Family: | 10-DGQ, VSSOP | Mount Compound: | EY1000063 | |
| Lead frame (Finish, Base): | NiPdAuAg, Cu | Bond Wire: | 1.0 Mil Diameter, Cu | |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results | | | | |
| Reliability Test | Conditions | Sample Size / Fails | | |
| | | Lot 1 | Lot2 | Lot 3 |
| Electrical Characterization | Per datasheet spec | Pass | Pass | Pass |
| **High Temp. Storage Bake | 150C (1000 Hrs) | 77/0 | 77/0 | 77/0 |
| **Unbiased HAST | 130C/85%RH (192 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | 77/0 | 77/0 |
| Manufacturability | (per mfg. Site specification) | Pass | Pass | Pass |
| Moisture Sensitivity | (level 1 @ 260C +5/-0C) | 12/0 | 12/0 | 12/0 |
| Notes ** Preconditioning sequence: Level 2-260C. | | | | |

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 | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| Japan | PCNJapanContact@list.ti.com |