

<b>PCN Number:</b>	20190501000.1		<b>PCN Date:</b>	May 2 2019												
<b>Title:</b>	Qualification of TIPI as an alternate Assembly site for the TPS22918DBVR/T															
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services													
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Aug 2 2019	<b>Estimated Sample Availability:</b>	Date provided at sample request													
<b>Change Type:</b>																
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site											
<input 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"/>		<input type="checkbox"/>	Wafer Fab Process											
<b>PCN Details</b>																
<b>Description of Change:</b>																
Texas Instruments is pleased to announce the qualification of TI Philippines (TIPI) as an Additional Assembly site for the TPS22918DBVR/T. Current assembly site and Material differences are as follows:																
<table border="1"> <thead> <tr> <th></th> <th>NFME</th> <th>TIPI</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td>SID# A-03</td> <td>4207123</td> </tr> <tr> <td>Mold compound</td> <td>SID#R-17</td> <td>4222198</td> </tr> <tr> <td>Lead Finish</td> <td>Matte Sn</td> <td>NiPdAu</td> </tr> </tbody> </table>						NFME	TIPI	Mount Compound	SID# A-03	4207123	Mold compound	SID#R-17	4222198	Lead Finish	Matte Sn	NiPdAu
	NFME	TIPI														
Mount Compound	SID# A-03	4207123														
Mold compound	SID#R-17	4222198														
Lead Finish	Matte Sn	NiPdAu														
Upon expiry of this PCN TI will combine lead free solutions in a single <b><u><a href="#">standard part number</a></u></b> , for example; <b><u><a href="#">TPS22918DBVR</a></u></b> – can ship with both Matte Sn and NiPdAu.																
Example:																
<ul style="list-style-type: none"> <li>– Customer order for 7500units of LM25574MTX/NOPB 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>Anticipated impact on Material Declaration</b>																
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below <a href="http://www.ti.com/quality/docs/materialcontentsearch.tsp">http://www.ti.com/quality/docs/materialcontentsearch.tsp</a>													

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

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (21L)	Assembly City
NFME	NFM	CHN	Economic Development Zone
<b>TIPI</b>	<b>PHI</b>	<b>PHL</b>	<b>Baguio City</b>

Sample product shipping label (not actual product label)

**TEXAS INSTRUMENTS**  
 MADE IN: Malaysia  
 2DC: 2Q:  
 MSL 2 /260C/1 YEAR SEAL DT  
 MSL 1 /235C/UNLIM 03/29/04  
 OPT:  
 ITEM: 39  
 LBL: 5A (L)TO:1750  
 (1P) SN74LS07NSR  
 (Q) 2000 (D) 0336  
 (31T) LOT: 3959047MLA  
 (4W) TKY (1T) 7523483SI2  
 (P)  
 (2P) REV: (V) 0033317  
 (20L) CSO: SHE (21L) CCO:USA  
 (22L) ASO: MLA (23L) ACO: MYS

G4 = NiPdAu  
 G3 = MATTE Sn

**Product Affected:**

TPS22918DBVR	TPS22918DBVT
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TI Information  
Selective Disclosure

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

Type	Test Name / Condition	Duration	Qual Device: TPS22918DBV	QBS Product Reference: TPS22918DBV	QBS Process Reference: TPS2543QRTE	QBS Package Reference: TPS22810DBVR	QBS Package Reference: TPS2552DBVR
AC	Autoclave 121C	96 Hours	-	-	3/231/0	-	3/231/0
CDM	ESD - CDM	1500 V	1/3/0	1/3/0	-	1/3/0	-
DS	Die Shear	-	-	-	-	-	3/30/0
ED	Electrical Characterization	Per Datasheet Parameters	-	1/Pass	-	1/Pass	-
ELFR	Early Life Failure Rate, 150C	24 Hours	-	-	3/2400/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-	3/231/0
HBM	ESD - HBM	4000 V	1/3/0	1/3/0	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	3/239/0	-
HTOL	Life Test, 150C	408 Hours	-	-	3/231/0	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	-	3/231/0
HTSL	High Temp Storage Bake 175C	500 Hours	-	-	3/149/0	-	-
LU	Latch-up	(Per JESD78)	-	1/6/0	-	-	-
PD	Physical Dimensions	(per mechanical drawing)	-	-	-	-	3/15/0
SD	Surface Mount Solderability	Pb Free	-	-	2/30/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	3/231/0	3/231/0
WBP	Bond Pull	Wires	-	-	-	3/15/0	3/228/0
WBS	Ball Bond Shear	Wires	-	-	-	3/15/0	3/228/0

- QBS: Qual By Similarity
  - Qual Device TPS22918DBV is 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 the contacts shown below or your local Field Sales Representative.

<b>Location</b>	<b>E-Mail</b>
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>
WW PCN Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>