

PCN Number:	20171214000A		PCN Date:	Sept 14, 2018												
Title:	Qualification of TIPI as an additional Assembly and Test site for select devices															
Customer Contact:	PCN Manager	Dept:	Quality Services													
Change Type:																
<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 checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site											
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials											
				<input type="checkbox"/>	Wafer Fab Process											
PCN Details																
Description of Change:																
Revision A is to provide correction on the lead finish differences. TIPI will continue to use Matte Sn lead finish for the devices affected. We apologize for any inconvenience this may have caused.																
Texas Instruments Incorporated is announcing the qualification TIPI (TI Philippines Inc.) as Additional Assembly and Test Site for select devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Assembly Site</th> <th style="width: 25%;">Assembly Site Origin</th> <th style="width: 25%;">Assembly Country Code</th> <th style="width: 25%;">Assembly Site City</th> </tr> </thead> <tbody> <tr> <td>JCET</td> <td>JCE</td> <td>CHN</td> <td>Jiangyin</td> </tr> <tr> <td>TIPI</td> <td>PHI</td> <td>PHL</td> <td>Baguio City</td> </tr> </tbody> </table>					Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City	JCET	JCE	CHN	Jiangyin	TIPI	PHI	PHL	Baguio City
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City													
JCET	JCE	CHN	Jiangyin													
TIPI	PHI	PHL	Baguio City													
Material Differences:																
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	JCET	TIPI														
Mold compound	131010100455	4222198														
Lead Finish	Matte Sn	NiPdAu Matte Sn														
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.																
Reason for Change:																
Continuity of supply.																
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																
None																
Anticipated impact on Material Declaration																
<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 from the TI Eco-Info website . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.													
Changes to product identification resulting from this PCN:																
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Assembly Site																
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TIPI	Assembly Site Origin (22L)	ASO: PHI														

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)T0:1750



(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

Product Affected:

TLV62568DRLR	TLV62568DRLT	TLV62568PDRLR	TLV62568PDRLT
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Qualification Report

TLV62568DRL and TLV62568PDRL in SOT-563 Package (RFAB, JCAP B2, TIPI)
 Approve Date 13-Dec-2017

Product Attributes

Attributes	Qual Device: <u>TLV62568DRL</u>	Qual Device: <u>TLV62568PDRL</u>
Assembly Site	PHI	PHI
Package Family	R-PDSO-G SOT563	R-PDSO-G SOT563
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB
Wafer Fab Process	LBC9LV	LBC9LV

- QBS: Qual By Similarity
- Qual Device TLV62568PDRL is qualified at LEVEL1-260C
- Qual Device TLV62568DRL is qualified at LEVEL1-260C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: <u>TLV62568DRL</u>	Qual Device: <u>TLV62568PDRL</u>
AC	Autoclave 121C	96 Hours	3/231/0	-
ED	Electrical Characterization	Per Datasheet Parameters	1/Pass	-
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	-
HTOL	Life Test, 150C	300 Hours	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-
WBP	Bond Strength	Wires	1/76/0	1/76/0
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0

- 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 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