



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN#20150909000**

**Qualification of Hana Thailand as an Additional Assembly & Test site for select  
devices in the DQN package  
Change Notification / Sample Request**

**Date:** 9/11/2015  
**To:** MOUSER PCN

Dear Customer:

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 changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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

**20150909000**  
**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
LP5907SNX-1.2/NOPB	null
LP5907SNX-1.8/NOPB	null
LP5907SNX-2.2/NOPB	null
LP5907SNX-2.5/NOPB	null
LP5907SNX-2.7/NOPB	null
LP5907SNX-2.8/NOPB	null
LP5907SNX-2.85/NOPB	null
LP5907SNX-3.0/NOPB	null
LP5907SNX-3.1/NOPB	null
LP5907SNX-3.2/NOPB	null
LP5907SNX-3.3/NOPB	null

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20150909000			<b>PCN Date:</b>	9/11/2015						
<b>Title:</b>	Qualification of Hana Thailand as an Additional Assembly & Test site for select devices in the DQN package										
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>		<b>Dept:</b>	Quality Services							
<b>Proposed 1<sup>st</sup> Ship Date:</b>	12/11/2015		<b>Estimated Sample Availability:</b>	Provided upon Request							
<b>Change Type:</b>											
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials						
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification						
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process						
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process						
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process						
	<input type="checkbox"/>	Part number change									
<b>PCN Details</b>											
<b>Description of Change:</b>											
<p>Texas Instruments is pleased to announce the qualification of Hana Thailand as an additional Assembly &amp; Test site for select devices in the DQN package shown in the table below. BOM differences are noted below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;"><b>JCET</b></td> <td style="text-align: center;"><b>HNT</b></td> </tr> <tr> <td><b>Mount Compound</b></td> <td style="text-align: center;">S#120402001600</td> <td style="text-align: center;"><b>SID#400173</b></td> </tr> </table> <p>Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.</p>							<b>JCET</b>	<b>HNT</b>	<b>Mount Compound</b>	S#120402001600	<b>SID#400173</b>
	<b>JCET</b>	<b>HNT</b>									
<b>Mount Compound</b>	S#120402001600	<b>SID#400173</b>									
<b>Reason for Change:</b>											
Continuity of Supply											
<b>Anticipated impact on Fit, Form, 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 from the <a href="#">TI ECO website</a> .								
<b>Changes to product identification resulting from this PCN:</b>											
<b>Assembly Site</b>	<b>Assembly Site Origin (22L)</b>	<b>Assembly Country Code (21L)</b>	<b>Assembly City</b>								
JCET	JCE	CHN	Jiangyin								
<b>HNT</b>	<b>HNN</b>	<b>THA</b>	<b>Ayutthaya</b>								
Sample product shipping label (not actual product label)											



MADE IN: Malaysia  
2DC: 2Q:

MSL 2 /260C/1 YEAR	SEAL DT
MSL 1 /235C/UNLIM	03/29/04

OPT:  
ITEM:

LBL: 5A (L)T0:1750



(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

### Topside Device marking:

Assembly site code for JCET= F

Assembly site code for HNT = H

### Product Affected

LP5907SNX-1.2/NOPB	LP5907SNX-2.5/NOPB	LP5907SNX-2.85/NOPB	LP5907SNX-3.2/NOPB
LP5907SNX-1.8/NOPB	LP5907SNX-2.7/NOPB	LP5907SNX-3.0/NOPB	LP5907SNX-3.3/NOPB
LP5907SNX-2.2/NOPB	LP5907SNX-2.8/NOPB	LP5907SNX-3.1/NOPB	LP5907SNX-4.5/NOPB



TI Information  
Selective Disclosure

## Qualification Report

Hana - Thailand as 2nd Site Multi-Source for LP5907SNX Family Cat2CF Qualification

Approved 07/31/2015

### Product Attributes

Attributes	Qual Device: LP5907SNX-2.85/ NOPB	QBS Package Reference: TLV70750DQN	QBS Package Reference: TLV70750DQN
Assembly Site	HANA - THAILAND	HANA - THAILAND	HANA - THAILAND
Package Family	X2SON	X2SON	X2SON
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	AIZU	MIHO8	MIHO8
Wafer Fab Process	CMOS9T	LBC7	LBC7

- QBS: Qual By Similarity

- Qual Device LP5907SNX-2.84/NOPB is qualified at MSL1

## Qualification Results

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



Type	Test Name / Condition	Duration	Qual Device: LP5907 SNX- 2.85/NOPB	QBS Package Reference: TLV70750DQN	QBS Package Reference: TLV70750DQN
PC	PreCon Level 1	ATE	1/231/0	1/305/0	3/847/0
HAST	Biased HAST, 130C/85%RH	96 Hours	1/77/0	1/77/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-
AC	Autoclave 121C	96 Hours	-	1/77/0	-
UHAST	Unbiased HAST 110C/85%RH	96 Hours	1/77/0	1/77/0	2/154/0
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	1/77/0	3/231/0
HTSL	High Temp Storage Bake 150C	1000 Hours	1/45/0	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	1/77/0	3/231/0
HTOL	Life Test, 125C	1000 Hours	1/77/0	-	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-
WBS	Ball Bond Shear	5 units, >76 balls, 0 fails	3/60/0	1/76/0	1/76/0
WBP	Bond Pull	4 Wire, 5 units min	3/60/0	-	2/152/0
SD	Solderability	Steam age, 8 Hours	3/60/0	1/22/0	2/44/0
PD	Physical Dimensions	(per mechanical drawing)	3/60/0	1/5/0	2/10/0
HBM	ESD - HBM	2000 V	1/3/0	1/3/0	1/3/0
CDM	ESD - CDM	1000 V	1/3/0	1/3/0	-
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	-
ED	Electrical Characterization	Over Temperature	1/30/0	1/30/0	-
DS	Die Shear	-	-	1/15/0	1/10/0
MECH	Visual / Mechanical	-	-	1/459/0	-
MQ	Manufacturability	(per mfg. Site specification)	3/Pass	1/Pass	-
MSL	Moisture Sensitivity, L1 260C	3 Cycles / 260 C	-	-	-
XRAY	X-ray	(top side only)	-	-	-

- 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

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>