

**PCN Number:** 20130110002 **PCN Date:** Dec. 1, 2016

**Title:** Qualification of TI Philippines as an alternate assembly site for selected devices in the HTQFP package family

**Customer Contact:** PCN Manager **Dept:** Quality Services

**Proposed 1<sup>st</sup> Ship Date:** Not Applicable **Estimated Sample Availability:** Not Applicable

**Change Type:**

<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification
<input 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

**PCN Details**

**Description of Change:**

This PCN is canceled. All affected devices will continue to ship using the current AT site.

Qualification of TI Philippines as an alternate assembly site for selected devices in the HTQFP package family. The material set will remain the same between the 2 sites:

	TI Taiwan-AT	TI Philippines-AT
<b>Mold Compound</b>	4205443	<b>4205443</b>
<b>Mount Compound</b>	4208458	<b>4208458</b>
<b>Bond Wire</b>	1.98/0.8 Mil Dia., Cu	<b>1.98/0.8 Mil Dia., Cu</b>

**Reason for Change:**

Continuity of Supply

**Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):**

None

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

Assembly Site	Assembly Site Origin (22L)	ASO:
TI Taiwan	Assembly Site Origin (22L)	ASO: TAI
TI Philippines	Assembly Site Origin (22L)	ASO: PHI

Sample product shipping label (not actual product label)



TEXAS INSTRUMENTS  
 MADE IN: Malaysia  
 2DC: 20:

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

OPT: 39  
 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) CSO: SHE (21L) CCO:USA  
 (22L) ASO: MLA (23L) ACO: MYS

**Topside Device marking:**

Assembly site code for TI Taiwan = T

Assembly site code for TI Philippines = W

<b>Product Affected:</b>			
<b>TAS5717LPHP</b>	<b>TAS5719PHP</b>	<b>TAS5731PHP</b>	<b>TAS5735PHP</b>
<b>TAS5717LPHPR</b>	<b>TAS5719PHPR</b>	<b>TAS5731PHPR</b>	<b>TAS5735PHPR</b>
<b>TAS5717PHP</b>	<b>TAS5727PHP</b>	<b>TAS5733PHP</b>	<b>TAS5745PHP</b>
<b>TAS5717PHPR</b>	<b>TAS5727PHPR</b>	<b>TAS5733PHPR</b>	<b>TAS5745PHPR</b>

### Qualification Plan

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.

<b>Qualification Schedule:</b>	<b>Start:</b>	January 2013	<b>End:</b>	March 2013
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**Qualification Device: TAS5745PHP (MSL 3-260C)**

#### Package Construction Details

Assembly Site:	TI Philippines	Mold Compound:	4205443
# Pins-Designator, Family:	48-PHP, HTQFP	Mount Compound:	4208458
Lead Finish:	NiPdAu	Bond Wire:	1.98/0.8 Mil Dia., Cu

**Qualification:**  **Plan**  **Test Results**

Reliability Test	Conditions	Sample Size / Fail		
		Lot 1	Lot 2	Lot 3
Electrical Characterization	(To Datasheet parameters)	30/0	--	--
**High Temp. Storage Bake	170C (420hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls, 3 units min	76/0	76/0	76/0
Bond Pull	76 Wire, 3 units min	76/0	76/0	76/0
Manufacturability (Assembly)	(per mfg. Site specification)	3/0	--	--
Moisture Sensitivity	(level 3 @ 260C +5/-0C)	12/0	12/0	12/0

Notes: \*\*Tests require preconditioning sequence: MSL3-260C

For questions regarding this notice, e-mails can be sent to the regional 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>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>