

PCN Number: 20140303000C **PCN Date:** 02/09/2015

Title: Qualification of Amkor Philippines as Alternate Assembly/Test site for select PQFN Devices

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: 06/05/2014 **Estimated Sample Availability:** 03/05/2014

Change Type:		
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/> Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/> Assembly Materials
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/> Electrical Specification
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/> Mechanical Specification
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/> Packing/Shipping/Labeling
<input type="checkbox"/>		<input type="checkbox"/> Test Process
<input type="checkbox"/>		<input type="checkbox"/> Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/> Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/> Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/> Wafer Fab Process
<input type="checkbox"/>		<input type="checkbox"/> Part number change

PCN Details

Description of Change:

Revision C is to announce the retraction of the CSD16401Q5. This affected device is identified with a strikethrough and is highlighted in yellow in the Product Affected Section. The other devices listed below with a strikethrough were retracted on Revision A and Revision B of PCN201403003000.

Amkor Philippines is being qualified as an additional Assembly/Test site for the devices listed below. There are no BOM differences between devices assembled at Amkor Philippines versus the current Assembly site.

Reason for Change:

Continuity of Supply

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

None

Changes to product identification resulting from this PCN:

Assembly Site		
PSi	Assembly Site Origin (22L)	ASO: PAC
Amkor Philippines	Assembly Site Origin (22L)	ASO: AP3

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:
 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

Topside Device marking:

Assembly site code for PAC= E

Assembly site code for AP3= 3

Product Affected			
CSD16321Q5	CSD16407Q5	CSD17304Q3	CSD18502Q5B
CSD16322Q5	CSD16408Q5	CSD17308Q3	CSD25401Q3
CSD16323Q3	CSD16409Q3	CSD17309Q3	CSD58887Q3
CSD16325Q5	CSD16411Q3	CSD17311Q5	CSD86330Q3D
CSD16327Q3	CSD16414Q5	CSD17312Q5	CSD95372BQ5MC
CSD16401Q5	CSD16415Q5	CSD17559Q5	CSD95373BQ5MC
CSD16406Q3	CSD17303Q5		

Qualification Data – Approved February, 2014				
This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qual Vehicle#1: CSD16323Q3 (MSL 1-260C)				
Package Construction Details				
Assembly Site:	AK3	Mold Compound:	SID#202828	
# Pins-Designator, Family:	8-DQG, VSON	Mount Solder:	SID#200757	
Lead Finish	Matte Sn	Bond Wire:	2mil, Au	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Autoclave	121°C/100% RH (96 Hrs)	77/0	77/0	77/0
**T/C -40C/125C	-40C/+125C (1000 Cyc)	77/0	77/0	77/0
**THB	85°C/85%R.H./80% Rated Vds (1000 Hrs)	77/0	77/0	77/0
HTRB	150°C/80% Rated Vds (1000 hrs)	77/0	77/0	77/0
HTGB	150°C/80% Rated Vgs (1000 hrs)	77/0	77/0	77/0
Intermittent Op Life	Delta Tj = 100°C 2 min on/2 min off (10K Cyc)	77/0	77/0	77/0
Notes **- Preconditioning sequence: Level 1-260C.				
Qualification Data – Approved February, 2014				
This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qual Vehicle#1: CSD17312Q5 (MSL 1-260C)				
Package Construction Details				
Assembly Site:	AK3	Mold Compound:	SID#202828	
# Pins-Designator, Family:	8-DQH, VSON	Mount Solder:	SID#200757	
Lead Finish	Matte Sn	Bond Wire:	2mil, Au	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**Autoclave	121°C/100% RH (96 Hrs)	77/0	77/0	77/0
**T/C -40C/125C	-40C/+125C (1000 Cyc)	77/0	77/0	77/0
**THB	85°C/85%R.H./80% Rated Vds (1000 Hrs)	77/0	77/0	77/0
HTRB	150°C/80% Rated Vds (1000 hrs)	77/0	77/0	77/0
HTGB	150°C/80% Rated Vgs (1000 hrs)	77/0	77/0	77/0
Intermittent Op Life	Delta Tj = 100°C 2 min on/2 min off (10K Cyc)	77/0	77/0	77/0
Notes **- Preconditioning sequence: Level 1-260C.				

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