

<b>PCN Number:</b>		20140303000		<b>PCN Date:</b>		03/03/2014										
<b>Title:</b>		Qualification of Amkor Philippines as Alternate Assembly/Test site for select PQFN Devices														
<b>Customer Contact:</b>		<a href="#">PCN Manager</a>		<b>Phone:</b>		+1(214)480-6037										
				<b>Dept:</b>		Quality Services										
<b>Proposed 1<sup>st</sup> Ship Date:</b>		06/03/2014		<b>Estimated Sample Availability:</b>		03/03/2014										
<b>Change Type:</b>																
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>										
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>										
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>										
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process	<input type="checkbox"/>										
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process	<input type="checkbox"/>										
<input type="checkbox"/>		<input type="checkbox"/>	Part number change	<input type="checkbox"/>		<input type="checkbox"/>										
<b>PCN Details</b>																
<b>Description of Change:</b>																
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.																
<b>Reason for Change:</b>																
Continuity of Supply																
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>																
None																
<b>Changes to product identification resulting from this PCN:</b>																
<table border="1" style="width: 100%;"> <tr> <td colspan="3"><i>Assembly Site</i></td> </tr> <tr> <td>PSi</td> <td>Assembly Site Origin (22L)</td> <td>ASO: PAC</td> </tr> <tr> <td>Amkor Philippines</td> <td>Assembly Site Origin (22L)</td> <td>ASO: <a href="#">AP3</a></td> </tr> </table>								<i>Assembly Site</i>			PSi	Assembly Site Origin (22L)	ASO: PAC	Amkor Philippines	Assembly Site Origin (22L)	ASO: <a href="#">AP3</a>
<i>Assembly Site</i>																
PSi	Assembly Site Origin (22L)	ASO: PAC														
Amkor Philippines	Assembly Site Origin (22L)	ASO: <a href="#">AP3</a>														
Sample product shipping label (not actual product label)																
<b>Topside Device marking:</b>																
Assembly site code for PAC= E																
<a href="#">Assembly site code for AP3= 3</a>																

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:**  Plan  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:**  Plan  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.

<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>