

PCN Number:	20150821000	PCN Date:	08/24/2015												
Title:	Qualification of ASESH as Additional Assembly Site for Select TSSOP Package Devices														
Customer Contact:	PCN Manager	Dept:	Quality Services												
Proposed 1st Ship Date:	11/24/2015	Estimated Sample Availability:	Date Provided at Sample request												
Change Type:															
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process												
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification												
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling												
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material												
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials												
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Assembly Materials												
		<input type="checkbox"/>	Mechanical Specification												
		<input type="checkbox"/>	Test Process												
		<input type="checkbox"/>	Wafer Bump Process												
		<input type="checkbox"/>	Wafer Fab Process												
PCN Details															
Description of Change:															
Qualification of ASESH as Additional Assembly Site for Select TSSOP Package Devices. Assembly differences are shown in the following table:															
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly Site City</th> </tr> </thead> <tbody> <tr> <td>TI Malaysia</td> <td>MLA</td> <td>MY</td> <td>Kuala Lumpur</td> </tr> <tr> <td>ASESH</td> <td>ASH</td> <td>CN</td> <td>Shanghai</td> </tr> </tbody> </table>				Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City	TI Malaysia	MLA	MY	Kuala Lumpur	ASESH	ASH	CN	Shanghai
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City												
TI Malaysia	MLA	MY	Kuala Lumpur												
ASESH	ASH	CN	Shanghai												
Material Differences:															
	TI Malaysia	ASESH													
Mount Compound	4042500	EY1000063													
Mold Compound	4206193	EN2000507													
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:															
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin (22L)</th> <th>ASO:</th> </tr> </thead> <tbody> <tr> <td>TI Malaysia</td> <td>Assembly Site Origin (22L)</td> <td>ASO: MLA</td> </tr> <tr> <td>ASESH</td> <td>Assembly Site Origin (22L)</td> <td>ASO: ASH</td> </tr> </tbody> </table>				Assembly Site	Assembly Site Origin (22L)	ASO:	TI Malaysia	Assembly Site Origin (22L)	ASO: MLA	ASESH	Assembly Site Origin (22L)	ASO: ASH			
Assembly Site	Assembly Site Origin (22L)	ASO:													
TI Malaysia	Assembly Site Origin (22L)	ASO: MLA													
ASESH	Assembly Site Origin (22L)	ASO: ASH													
Sample product shipping label (not actual product label)															
ASSEMBLY SITE CODES: TI Malaysia =K, ASESH = A															
Product Affected:															
CDCV304PW	CDCV304PWG4	CDCV304PWR	CDCV304PWRG4												

Qualification Report

CDCV304PW: Qualification of alternative Assembly Site (ASESH)

Product Attributes

Attributes	Qual Device: CDCV304
Assembly Site	ASE SHANGHAI (ASESH)
Package Family	TSSOP
Flammability Rating	UL 94 V-0
Wafer Fab Site	ANAM (DONGBU)
Wafer Fab Process	33C10

- QBS: Qual By Similarity
- Qual Device CDCV304 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: CDCV304
PC	PreCon Level 1	25C	1/280/0
AC	Autoclave 121C	96 Hours	1/80/0
TC	Temperature Cycle, -65/150C	500 Cycles	1/80/0
HTSL	High Temp Storage Bake 150C	1000 Hours	1/80/0
MQ	Manufacturability	(per mfg. Site specification)	Pass
ED	Electrical Characterization	Per Datasheet Parameters	1/Pass

- 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