



# Final Product/Process Change Notification

Document #:FPCN23868XC

Issue Date:23 Jan 2022

<b>Title of Change:</b>	WLCSP Manufacturing site transfer from onsemi Niigata to ASE ChungLi	
<b>Proposed First Ship date:</b>	15 May 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Hiroto.Yamada@onsemi.com">Hiroto.Yamada@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Takashi.Naruse@onsemi.com">Takashi.Naruse@onsemi.com</a>	
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	Date Code	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	ASECL, Taiwan (ChungLi)	
<b>Description and Purpose:</b>		
Due to sale of Niigata factory announcement on Aug 8, 2020, onsemi has issued this FPCN of WLCSP Site Change on the affected parts.		
	<b>Before Change Description</b>	<b>After Change Description</b>
WLCSP Assembly Site	onsemi Niigata	Advanced Semiconductor Engineering Inc., ChungLi
Passivation Material	Phenolic resin	Polyimide resin
Solder Ball type	SAC305	SAC405
The assembly date code marking is updated to reflect the new assembly site. The WLCSP process is changed from onsemi Niigata STANDARD process to ASECL STANDARD process. However, there is no impact to customers except assembly date code marking, because OPN, Function, Datasheet(including Electrical Characteristics), MECHANICAL CASE OUTLINE(CASE 567E) and Tape and Reel Specification are not changed.		



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## Reliability Data Summary:

QV DEVICE NAME: LC6WF9T40A-3A70-TBG

RMS: O76563

PACKAGE: WLCSP179, 5.00x7.27x0.60

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/75
TC	JESD22-A104	Ta= -40°C to +125°C	500 cyc	0/75
HAST	JESD22-A110	110°C, 85% RH, 17.7psig, bias	264 hrs	0/75
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/75

QV DEVICE NAME: LC898249AXHTBG

RMS: O76970

PACKAGE: WLCSP6, 0.86x1.75x0.265

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -40°C to +125°C	500 cyc	0/75
uHAST	JESD22-A118	110°C, 85% RH, 17.7psig, unbiased	264 hrs	0/75

## Electrical Characteristics Summary:

Electrical characteristics are not impacted.

## List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
LC709205FXE-01TBG	LC6WF9T40A-3A70-TBG, LC898249AXHTBG
LC709204VXE-01TBG	LC6WF9T40A-3A70-TBG, LC898249AXHTBG
LC709204FXE-01TBG	LC6WF9T40A-3A70-TBG, LC898249AXHTBG

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**Appendix A: Changed Products****PCN#: FPCN23868XC**  
**Issue Date: Jan 23, 2022**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
LC709205FXE-01TBG		LC6WF9T40A-3A70-TBG, LC898249AXHTBG	NA	
LC709204FXE-01TBG		LC6WF9T40A-3A70-TBG, LC898249AXHTBG	NA	