



## Initial Product/Process Change Notification

Document #: IPCN25662X

Issue Date: 27 Sep 2023

<b>Title of Change:</b>	SOIC 8LDS Less Pin7 144u Std LF and 396u EHDLF Consolidation	
<b>Proposed First Ship date:</b>	05 Jul 2024 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Erwin.Bernal@onsemi.com">Erwin.Bernal@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>Type of Notification:</b>	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >	
<b>Marking of Parts/ Traceability of Change:</b>	Changed material can be identified by date code or lot code	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>
onsemi Carmona, Philippines		None
<b>Description and Purpose:</b>		
Lead frame consolidation with corresponding flag size changes.		
	<b>Before Change Description</b>	<b>After Change Description</b>
LeadFrame	Flag Size: 90x90, Flag Size: 100x110 Flag Size: 90x120	Flag Size: 90X120-EHLDF
Change of lead frame material's PN's can be identified by date code.		



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### Qualification Plan:

**QV DEVICE NAME:** NCL30488A4DR2G

**RMS:** \_\_\_\_\_

**PACKAGE:** SOIC 8L Less P7

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Solderability	JSTD002	Ta = 245°C, 5 sec	
Physical Dimensions	JESD22-B120		

**QV DEVICE NAME:** NCP1234BD65R2G

**RMS:** \_\_\_\_\_

**PACKAGE:** SOIC 8L Less P7

Test	Specification	Condition	Interval
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc

**QV DEVICE NAME:** NCP1271D65R2G

**RMS:** \_\_\_\_\_

**PACKAGE:** SOIC 8L Less P7

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Solderability	JSTD002	Ta = 245°C, 5 sec	
Physical Dimensions	JESD22-B120		

Estimated date for qualification completion: 26 January 2024



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### 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
NCP1271D100R2G	NCP1271D65R2G
NCP1219AD65R2G	NCP1271D65R2G
NCP1219AD100R2G	NCP1271D65R2G
NCP1219BD65R2G	NCP1271D65R2G
NCP1271D65R2G	NCP1271D65R2G
NCP1236AD100R2G	NCP1271D65R2G
NCP12401ABEAB3DR2G	NCL30488A4DR2G
NCP1234BD65R2G	NCP1234BD65R2G
NCP1236BD100R2G	NCP1271D65R2G
NCP1234BD100R2G	NCP1271D65R2G
NCP1234AD100R2G	NCP1271D65R2G
NCP1234AD65R2G	NCP1271D65R2G

## Appendix A: Changed Products

PCN#: IPCN25662X  
Issue Date: Sep 27, 2023

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP1234BD65R2G		NCP1234BD65R2G	NA	
NCP1234BD100R2G		NCP1271D65R2G	NA	
NCP1234AD100R2G		NCP1271D65R2G	NA	
NCP1234AD65R2G		NCP1271D65R2G	NA	
NCP1236AD100R2G		NCP1271D65R2G	NA	
NCP1271D65R2G		NCP1271D65R2G	NA	
NCP1219BD65R2G		NCP1271D65R2G	NA	
NCP1219AD100R2G		NCP1271D65R2G	NA	
NCP1219AD65R2G		NCP1271D65R2G	NA	
NCP1271D100R2G		NCP1271D65R2G	NA	
NCP1236BD100R2G		NCP1271D65R2G	NA	