

Initial Product/Process Change Notification Document #: IPCN21306Z Issue Date: 27 April 2016

Title of Change:	Lead Finish and BOM change for DFN/QFN products assembled at Seremban, Malaysia – Group 2				
Proposed first ship date:	29 May 2017 or earlier upon customer approval				
Contact information:	Contact your local ON Semiconductor Sales Office or <alan.garlington@onsemi.com></alan.garlington@onsemi.com>				
Samples:	Samples will be available after publication of the Final Product Change Notice. Please send any sample requests to <kokinn.hoo@onsemi.com></kokinn.hoo@onsemi.com>				
Type of notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are issued at least 30 days prior to the issuance of the Final Change Notice (FPCN). 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 12 months prior to implementation of the change. In case of questions, contact <pcn.support@onsemi.com>.</pcn.support@onsemi.com>				
Change Part Identification:	Parts can be identified by the marking part number and date code once the Final PCN is published.				
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other				
Change Sub-Category(s): Manufacturing Site Change/Addition Manufacturing Process Change Monufacturing Process Change Datasheet/Product Doc change Shipping/Packaging/Marking Other:					
Sites Affected: All site(s) ON Semiconductor site(s): ON Seremban, Malaysia					
Description and Purpose:					
This is an advance notice for the next groups of devices which will be converted to use a new Lead Frame using a PPF lead finish along with a new die attach epoxy and mold compound. The Lead Frame will be changing from a Matte Tin lead finish to a PPF finish consisting of Ni-Pd-Au. All new materials will be fully qualified prior to issuing the Final Product Change notice to customers.					
For reference: FPCN # 20948X was issued on 7/10/2015 for the first group of parts with this change.					

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Qualification Plan:

QV DEVICE NAME: NCP1031MNTXG PACKAGE: DFN 8 4*4*1MM 0.8P

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	1000 сус
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	hrs
AC	JESD22 A102	121C,100% RH,15 PSIG	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

Estimated date for qualification completion: 31 March 2016

List of Affected Customer Specific Part:

NOTE: Please be informed that parts impacted by this PDN/PCN are Special/Customer specific parts, thus MPN & CPN info will be available to affected customers only by clicking the "Custom PCN for Selected Company Button" in the Document Analysis page of PCMS/PCN Alert.

List of Affected Standard Parts:

Part Number	Qualification Vehicle		
NCV3063MNTXG	NCP1031MNTXG		
NCV3064MNTXG	NCP1031MNTXG		
NCV3065MNTXG	NCP1031MNTXG		
NCV3066MNTXG	NCP1031MNTXG		
NCV51190MNTAG	NCP1031MNTXG		
NCV51200MNTXG	NCP1031MNTXG		
NCV51510MNTAG	NCP1031MNTXG		
NCV57152MNADJTYG	NCP1031MNTXG		
NCV59152MNADJTYG	NCP1031MNTXG		
NCV8154MN330180TBG	NCP1031MNTXG		
NCV8535MN150R2G	NCP1031MNTXG		
NCV8535MN180R2G	NCP1031MNTXG		
NCV8535MN190R2G	NCP1031MNTXG		
NCV8535MN250R2G	NCP1031MNTXG		
NCV8535MN280R2G	NCP1031MNTXG		
NCV8535MN285R2G	NCP1031MNTXG		

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NCV8535MN300R2G	NCP1031MNTXG		
NCV8535MN330R2G	NCP1031MNTXG		
NCV8535MN500R2G	NCP1031MNTXG		
NCV8535MNADJR2G	NCP1031MNTXG		
NCV8537MN180R2G	NCP1031MNTXG		
NCV8537MN250R2G	NCP1031MNTXG		
NCV8537MN330R2G	NCP1031MNTXG		
NCV8537MN500R2G	NCP1031MNTXG		
NCV8537MNADJR2G	NCP1031MNTXG		
NCV8560MN150R2G	NCP1031MNTXG		
NCV8560MN250R2G	NCP1031MNTXG		
NCV8560MN280R2G	NCP1031MNTXG		
NCV8560MN300R2G	NCP1031MNTXG		
NCV8560MN330R2G	NCP1031MNTXG		
NCV8560MN350R2G	NCP1031MNTXG		
NCV8560MNADJR2G	NCP1031MNTXG		
NCV8570BMN180R2G	NCP1031MNTXG		
NCV8570BMN250R2G	NCP1031MNTXG		
NCV8570BMN280R2G	NCP1031MNTXG		
NCV8570BMN300R2G	NCP1031MNTXG		
NCV8570BMN330R2G	NCP1031MNTXG		
NCV8605MN15T2G	NCP1031MNTXG		
NCV8605MN18T2G	NCP1031MNTXG		
NCV8605MN25T2G	NCP1031MNTXG		
NCV8605MN28T2G	NCP1031MNTXG		
NCV8605MN30T2G	NCP1031MNTXG		
NCV8605MN33T2G	NCP1031MNTXG		
NCV8605MN50T2G	NCP1031MNTXG		
NCV8605MNADJT2G	NCP1031MNTXG		
NCV8606MN18T2G	NCP1031MNTXG		
NCV8606MN25T2G	NCP1031MNTXG		
NCV8606MN28T2G	NCP1031MNTXG		
NCV8606MN30T2G	NCP1031MNTXG		
NCV8606MN33T2G	NCP1031MNTXG		
NCV8606MNADJT2G	NCP1031MNTXG		

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If no Customer Part Number is on file, the CPN Part Number is marked "CPN Unassigned".

MPN	CPN	Company Name	Company Code	Division Name	Division Code
NCV8605MN28T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8605MNADJT2G	CPN Unassigned	DIGI-KET DIGI-KEY	DIKG	DIGI-KET DIGI-KEY	DKMPP
NCV8537MN500R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8535MNADJR2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8537MN330R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8537MNADJR2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8537MN250R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8570BMN330R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV3065MNTXG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8537MN180R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8570BMN280R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKMPP
NCV8537MNADJR2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV3063MNTXG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV3065MNTXG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8570BMN300R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8535MN300R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
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NCV8605MN50T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV51200MNTXG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8605MNADJT2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8605MN15T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
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NCV8535MN285R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8606MN18T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8560MN250R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8570BMN250R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV3066MNTXG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8154MN330180TBG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV51510MNTAG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8606MN33T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8605MN25T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
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NCV8535MN150R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV51190MNTAG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV57152MNADJTYG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV59152MNADJTYG	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
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NCV8535MNADJR2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
NCV8606MN25T2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO
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NCV8560MN280R2G	CPN Unassigned	DIGI-KEY	DIKG	DIGI-KEY	DKCPO