



# Initial Product/Process Change Notification

Document #: IPCN24526X

Issue Date: 06 Apr 2022

<b>Title of Change:</b>	Qualification of Alternate Lead Frame with C7025 base material for Specific QFN Devices			
<b>Proposed First Ship date:</b>	22 Oct 2022 or earlier if approved by customer			
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:PCN.support@onsemi.com">PCN.support@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>	Product traceability will be maintained by date 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 Tarlac, Philippines			None	
<b>Description and Purpose:</b>				
onsemi is announcing the intent to qualify C7025 Base Material for QFN devices in onsemi Tarlac, Philippines. FPCNs may be issued in phases based on the timing of qualification completion.				
	<b>From</b>		<b>To</b>	
Lead frame Supplier	DCI	DCI	HDS	AAMI
Base Material	EFTEC64 1/2H	EFTEC64 1/2H	C7025 1/2H	C7025 1/2H
Plating type	Ni, Pd, Au Ag	Ni, Pd, Au Ag	Ni, Pd, Au Ag	Ni, Pd, Au
Roughened	Non-rough	Non-rough	Non-rough	Roughened
<b>Note:</b> There is no product marking change as a result of this change				



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## Qualification Plan:

**QV DEVICE NAME:** NCP120AMX120TCG, NCP120AMX110TCG

**PACKAGE:** xDFN 6

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	500 cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JESD-B100		

Estimated date for qualification completion: 12 August 2022

**QV DEVICE NAME:** MC74VHC1G04MU3TCG, NLAS3257AMU3TCG

**PACKAGE:** UDFN6

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
RSH	JESD22- B106	Ta = 265°C, 10 sec	
SD	JSTD002	Ta = 245°C, 5 sec	
PD	JESD-B100		

Estimated date for qualification completion: 7 June 2022

**QV DEVICE NAME:** NLA9306MU3TCG

**PACKAGE:** uDFN 8

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = 150C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	500 cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JES2D-B100		

Estimated date for qualification completion: 12 August 2022



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**QV DEVICE NAME:** NLVSX5004MUTAG

**PACKAGE:** uQFN 12

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = 150C	2016 hrs
TC	JESD22-A104	Ta = - 65°C to +150°C	1000 cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JES2D-B100		

Estimated date for qualification completion: 12 August 2022

**QV DEVICE NAME:** NSPU5132MUTBG, NSPM2051MUT5G

**PACKAGE:** uDFN 6, uDFN 2

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = Max rate storage temp for device	1008 hrs
TC	JESD22-A104	Ta = - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, ~18.8psig	96 hrs
PC	J STD 020 , JESD22-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JES2D-B100		

Estimated date for qualification completion: 12 August 2022

**QV DEVICE NAME:** NCP752BMX33TCG

**PACKAGE:** DFN 6

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = 150C	1008 hrs
TC	JESD22-A104	Ta = - 65°C to +150°C	500 cyc



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uHAST	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JES2D-B100		

Estimated date for qualification completion: 12 August 2022

**QV DEVICE NAME:** NCP171AMX330325TCG

**PACKAGE:** xDFN 4

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = 150C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	500 cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 5 sec	
PD	JES2D-B100		

Estimated date for qualification completion: 12 August 2022

**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
NLSF457MU3TCG	NLA9306MU3TCG
MC74VHC1G00MU1TCG	NLA9306MU3TCG
MC74VHC1G04MU1TCG	NLA9306MU3TCG
MC74VHC1G32MU1TCG	NLA9306MU3TCG
MC74VHC1GT04MU1TCG	NLA9306MU3TCG
MC74VHC1GT126MU1TCG	NLA9306MU3TCG
MC74VHC1GT14MU1TCG	NLA9306MU3TCG
NCP154MX150280TAG	NCP120AMX120TCG
NCP154MX180290TAG	NCP120AMX120TCG
NCP154MX280270TAG	NCP120AMX120TCG



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NCP154MX280280TAG	NCP120AMX120TCG
NCP154MX330280TAG	NCP120AMX120TCG
NCP154MX330285TAG	NCP120AMX120TCG
NCP154MX330300TAG	NCP120AMX120TCG
NCP186AMX120TAG	NCP120AMX120TCG
NCP186AMX150TAG	NCP120AMX120TCG
NCP186AMX175TAG	NCP120AMX120TCG
NCP186AMX180TAG	NCP120AMX120TCG
NCP186AMX250TAG	NCP120AMX120TCG
NCP186AMX280TAG	NCP120AMX120TCG
NCP186AMX295TAG	NCP120AMX120TCG
NCP186AMX300TAG	NCP120AMX120TCG
NCP186AMX330TAG	NCP120AMX120TCG
NCP186AMX390TAG	NCP120AMX120TCG
NCP186BMX150TAG	NCP120AMX120TCG
NCP186BMX180TAG	NCP120AMX120TCG
NCP186BMX185TAG	NCP120AMX120TCG
NCP186BMX250TAG	NCP120AMX120TCG
NCP186BMX330TAG	NCP120AMX120TCG
NCP130AMX090TCG	NCP120AMX120TCG
NCP130AMX100TCG	NCP120AMX120TCG
NCP130BMX090TCG	NCP120AMX120TCG
NCP133AMX090TAG	NCP120AMX120TCG
NCP152MX280120TCG	NCP120AMX120TCG
SCY99222AMX120TCG	NCP120AMX120TCG
NCP120AMX110TCG	NCP120AMX110TCG
NCP130AMX080TCG	NCP120AMX110TCG
NCP130AMX105TCG	NCP120AMX110TCG
NCP130AMX110TCG	NCP120AMX110TCG
NCP130AMX115TCG	NCP120AMX110TCG
NCP130AMX120TCG	NCP120AMX110TCG
NCP130AMX150TCG	NCP120AMX110TCG
NCP130AMX180TCG	NCP120AMX110TCG
NCP130AMX210TCG	NCP120AMX110TCG



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NCP130BMX080TCG	NCP120AMX110TCG
NCP130BMX110TCG	NCP120AMX110TCG
NCP130BMX115TCG	NCP120AMX110TCG
NCP130BMX120TCG	NCP120AMX110TCG
NCP130BMX150TCG	NCP120AMX110TCG
NCP130BMX180TCG	NCP120AMX110TCG
NCP130BMX210TCG	NCP120AMX110TCG
NCP133AMX090TCG	NCP120AMX110TCG
NCP133AMX105TCG	NCP120AMX110TCG
NCP133AMX115TCG	NCP120AMX110TCG
NCP133AMX120TCG	NCP120AMX110TCG
NCP133AMX125TCG	NCP120AMX110TCG
NCP133AMXADJTCG	NCP120AMX110TCG
NCP153MX330180TCG	NCP120AMX110TCG
NTNS3164N2T5G	NTNS3A67PZT5G
NTNS3166N2T5G	NTNS3A67PZT5G
NTNS3A67PZT5G	NTNS3A67PZT5G
MC74VHC1G04MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1G32MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1GT08MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1GT125MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1GT126MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1GT14MU3TCG	MC74VHC1G04MU3TCG
NL17SG07MU3TBG	MC74VHC1G04MU3TCG
NL17SZ08MU3TCG	MC74VHC1G04MU3TCG
NL17SZ125MU3TCG	MC74VHC1G04MU3TCG
NL27WZ14MU3TCG	MC74VHC1G04MU3TCG
SL17SZS332MU3TCG	MC74VHC1G04MU3TCG
NLAS3257AMU3TCG	NLAS3257AMU3TCG
NCP703MX18TCG	NCP752BMX33TCG
NCP703MX28TCG	NCP752BMX33TCG
NCP715MX15TBG	NCP752BMX33TCG
NCP715MX18TBG	NCP752BMX33TCG
NCP715MX25TBG	NCP752BMX33TCG



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NCP715MX30TBG	NCP752BMX33TCG
NCP715MX33TBG	NCP752BMX33TCG
NCP715MX50TBG	NCP752BMX33TCG
NCP715MX53TBG	NCP752BMX33TCG
NCP752AMX28TCG	NCP752BMX33TCG
NCP752AMX30TCG	NCP752BMX33TCG
NCP752AMX33TCG	NCP752BMX33TCG
NCP752BMX18TCG	NCP752BMX33TCG
NCP752BMX28TCG	NCP752BMX33TCG
NCP752BMX30TCG	NCP752BMX33TCG
NCP752BMX33TCG	NCP752BMX33TCG
NCP134AMX085TCG	NCP171AMX330325TCG
NCP134AMX105TCG	NCP171AMX330325TCG
NCP134AMX110TCG	NCP171AMX330325TCG
NCP134AMX120TCG	NCP171AMX330325TCG
NCP134AMX135TCG	NCP171AMX330325TCG
NCP134AMX180TCG	NCP171AMX330325TCG
NCP145AMX105TCG	NCP171AMX330325TCG
NCP145AMX120TCG	NCP171AMX330325TCG
NCP145CMX120TCG	NCP171AMX330325TCG
NCP171A3MX170165TCG	NCP171AMX330325TCG
NCP171AMX080060TCG	NCP171AMX330325TCG
NCP171AMX080075TCG	NCP171AMX330325TCG
NCP171AMX100080TCG	NCP171AMX330325TCG
NCP171AMX120100TCG	NCP171AMX330325TCG
NCP171AMX165160TCG	NCP171AMX330325TCG
NCP171AMX170165TCG	NCP171AMX330325TCG
NCP171AMX180175TCG	NCP171AMX330325TCG
NCP171AMX280275TCG	NCP171AMX330325TCG
NCP171AMX330310TCG	NCP171AMX330325TCG
NCP171AMX330325TCG	NCP171AMX330325TCG
SCP134AMX105TCG	NCP171AMX330325TCG
SCP134AMX110TCG	NCP171AMX330325TCG
SCP134AMX120TCG	NCP171AMX330325TCG



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SCY99205AMX120TCG	NCP171AMX330325TCG
NSPU5132MUTBG	NSPU5132MUTBG
NSPU5201MUTBG	NSPU5132MUTBG
NSPU5221MUTBG	NSPU5132MUTBG
NL27WZ08MU1TWG	NLA9306MU3TCG
NL27WZ08MU1TCG	NLA9306MU3TCG
NL27WZ02MU1TWG	NLA9306MU3TCG
NL27WZ02MU1TCG	NLA9306MU3TCG
NL27WZ17MU1TCG	NLA9306MU3TCG
NL27WZ16MU1TCG	NLA9306MU3TCG
NL27WZ14MU1TCG	NLA9306MU3TCG
NL17SZ08MU1TCG	NLA9306MU3TCG
NL17SG14MU1TCG	NLA9306MU3TCG
NL17SG07MU1TCG	NLA9306MU3TCG
MC74VHC1GU04MU1TCG	NLA9306MU3TCG
MC74VHC1GT50MU1TCG	NLA9306MU3TCG
NLA9306MU3TCG	NLA9306MU3TCG
NLA9306MU3TAG	NLA9306MU3TCG
NL37WZ14MU3TCG	NLA9306MU3TCG
NL27WZ08MU3TCG	NLA9306MU3TCG
NL27WZ02MU3TCG	NLA9306MU3TCG
NLA9306MUQ1TCG	NLVSX5004MUTAG
NL27WZ86MQ1TCG	NLVSX5004MUTAG
NL27WZ08MQ1TCG	NLVSX5004MUTAG
NL17SZ74MQ1TCG	NLVSX5004MUTAG
NLSX5004MUTAG	NLVSX5004MUTAG
NSPM2051MUT5G	NSPM2051MUT5G
XNSPM5131MUTBG	NSPU5132MUTBG
SCY99205AMX110TCG	NCP171AMX330325TCG
SCY99205AMX105TCG	NCP171AMX330325TCG
SCY99205AMX100TCG	NCP171AMX330325TCG
NL27WZ17MU3TCG	MC74VHC1G04MU3TCG
NL27WZ16MU3TCG	MC74VHC1G04MU3TCG
MC74VHC1G08MU3TCG	MC74VHC1G04MU3TCG





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SCY99203AMX110TCG	NCP120AMX120TCG
MC74VHC1GT125MU1TCG	NLA9306MU3TCG
MC74VHC1GT08MU1TCG	NLA9306MU3TCG
MC74VHC1G08MU1TCG	NLA9306MU3TCG

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74VHC1G04MU1TCG		NLA9306MU3TCG		
MC74VHC1G32MU1TCG		NLA9306MU3TCG		
MC74VHC1GT04MU1TCG		NLA9306MU3TCG		
MC74VHC1GT126MU1TCG		NLA9306MU3TCG		
NCP186AMX180TAG		NCP120AMX120TCG		
NCP186AMX250TAG		NCP120AMX120TCG		
NCP186AMX280TAG		NCP120AMX120TCG		
NCP186AMX300TAG		NCP120AMX120TCG		
NCP186AMX330TAG		NCP120AMX120TCG		
NCP186BMX330TAG		NCP120AMX120TCG		
NCP120AMX110TCG		NCP120AMX110TCG		
NCP130AMX105TCG		NCP120AMX110TCG		
NCP130AMX110TCG		NCP120AMX110TCG		
NCP130AMX115TCG		NCP120AMX110TCG		
NCP130AMX120TCG		NCP120AMX110TCG		
NCP133AMX090TCG		NCP120AMX110TCG		
NCP133AMX105TCG		NCP120AMX110TCG		
NCP133AMX120TCG		NCP120AMX110TCG		
NCP133AMXADJTCG		NCP120AMX110TCG		
NTNS3164NZT5G		NTNS3A67PZT5G		
MC74VHC1G04MU3TCG		MC74VHC1G04MU3TCG		
MC74VHC1GT126MU3TCG		MC74VHC1G04MU3TCG		
NL17SG07MU3TBG		MC74VHC1G04MU3TCG		
NL17SZ08MU3TCG		MC74VHC1G04MU3TCG		
NCP703MX18TCG		NCP752BMX33TCG		
NCP715MX25TBG		NCP752BMX33TCG		
NCP715MX33TBG		NCP752BMX33TCG		
NCP715MX50TBG		NCP752BMX33TCG		
NCP134AMX085TCG		NCP171AMX330325TCG		
NCP134AMX105TCG		NCP171AMX330325TCG		
NCP134AMX110TCG		NCP171AMX330325TCG		
NCP134AMX120TCG		NCP171AMX330325TCG		
NCP134AMX135TCG		NCP171AMX330325TCG		
NCP134AMX180TCG		NCP171AMX330325TCG		
NCP145AMX105TCG		NCP171AMX330325TCG		
NCP145AMX120TCG		NCP171AMX330325TCG		
NCP145CMX120TCG		NCP171AMX330325TCG		
NCP171AMX180175TCG		NCP171AMX330325TCG		
NCP171AMX280275TCG		NCP171AMX330325TCG		
NCP171AMX330325TCG		NCP171AMX330325TCG		
NSPU5132MUTBG		NSPU5132MUTBG		
NSPU5201MUTBG		NSPU5132MUTBG		
NSPU5221MUTBG		NSPU5132MUTBG		
NL27WZ17MU1TCG		NLA9306MU3TCG		
NL27WZ14MU1TCG		NLA9306MU3TCG		
NL17SZ08MU1TCG		NLA9306MU3TCG		
MC74VHC1GU04MU1TCG		NLA9306MU3TCG		
MC74VHC1GT50MU1TCG		NLA9306MU3TCG		
NLSX5004MUTAG		NLVSX5004MUTAG		
NSPM2051MUT5G		NSPM2051MUT5G		
NCP186AMX120TAG		NCP120AMX120TCG		