



# Initial Product/Process Change Notification

Document #: IPCN25070XA

Issue Date: 09 Jan 2023

<b>Title of Change:</b>	Qualification of Alternate Lead Frame with C7025 base material and 0.8mil for wire material conversion from gold wire to Palladium coated copper wire for Specific UDFN4 1x1 package device at onsemi Seremban, Malaysia
<b>Proposed First Ship date:</b>	30 Sep 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:IgnatiusPillay.FelixAmbrose@onsemi.com">IgnatiusPillay.FelixAmbrose@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

**Sites Affected:**

onsemi Sites	External Foundry/Subcon Sites
onsemi Seremban, Malaysia	None

**Description and Purpose:**

onsemi is announcing the intent to qualify Alternate Lead Frame with C7025 base material and 0.8mil for wire material conversion from gold wire to Palladium Coated Copper (PCC) wire for specific UDFN4 1x1 package device at onsemi Seremban, Malaysia.

	Before Change Description	After Change Description	
Lead Frame Supplier	DCI	DCI	HDS
Base Material	EFTEC64T	EFTEC64T	C7025
Roughening	Non-Roughed	Non-Roughed	Roughed
Bond Wire	0.8mil Gold wire (P/N B50607A054 – Tanaka)	0.8mil Palladium coated copper wire (Tanaka)	



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## Qualification Plan:

QV DEVICE NAME: NCP114AMX180TCG

RMS:

PACKAGE: UDFN 4, 1.0x1.0,0.65P

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
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 = 268C, 10 sec	
HTOL	JA108	Ta=125C	1008 hrs

## 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
NCP114BMX330TCG	NCP114AMX180TCG
NCP114BMX250TCG	NCP114AMX180TCG
NCP114BMX180TCG	NCP114AMX180TCG
NCP114AMX360TCG	NCP114AMX180TCG
NCP114AMX350TCG	NCP114AMX180TCG
NCP114AMX345TCG	NCP114AMX180TCG
NCP114AMX330TCG	NCP114AMX180TCG
NCP114AMX330TBG	NCP114AMX180TCG
NCP114AMX320TCG	NCP114AMX180TCG
NCP114AMX310TCG	NCP114AMX180TCG
NCP114AMX310TBG	NCP114AMX180TCG
NCP114AMX300TCG	NCP114AMX180TCG
NCP114AMX285TCG	NCP114AMX180TCG
NCP114AMX280TCG	NCP114AMX180TCG
NCP114AMX280TBG	NCP114AMX180TCG
NCP114AMX270TCG	NCP114AMX180TCG
NCP114AMX260TCG	NCP114AMX180TCG
NCP114AMX250TCG	NCP114AMX180TCG
NCP114AMX250TBG	NCP114AMX180TCG



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NCP114AMX220TCG	NCP114AMX180TCG
NCP114AMX210TCG	NCP114AMX180TCG
NCP114AMX185TCG	NCP114AMX180TCG
NCP114AMX180TCG	NCP114AMX180TCG
NCP114AMX180TBG	NCP114AMX180TCG
NCP114AMX160TCG	NCP114AMX180TCG
NCP114AMX150TCG	NCP114AMX180TCG
NCP114AMX135TCG	NCP114AMX180TCG
NCP114AMX130TCG	NCP114AMX180TCG
NCP114AMX125TCG	NCP114AMX180TCG
NCP114AMX120TCG	NCP114AMX180TCG
NCP114AMX120TBG	NCP114AMX180TCG
NCP114AMX115TCG	NCP114AMX180TCG
NCP114AMX110TCG	NCP114AMX180TCG
NCP114AMX110TBG	NCP114AMX180TCG
NCP114AMX090TCG	NCP114AMX180TCG
NCP103AMX180TCG	NCP114AMX180TCG
NCP103AMX310TCG	NCP114AMX180TCG
NCP103BMX330TCG	NCP114AMX180TCG
NCP114AMX075TCG	NCP114AMX180TCG
SCP114AMX120TCG	NCP114AMX180TCG
SCP114AMX180TCG	NCP114AMX180TCG
SCP114AMX280TCG	NCP114AMX180TCG
SCP114AMX300TCG	NCP114AMX180TCG
SCY99187AMX100TCG	NCP114AMX180TCG
SCY99187AMX180TCG	NCP114AMX180TCG
SCY99187AMX280TCG	NCP114AMX180TCG
SCY99189AMU105TCG	NCP114AMX180TCG
SCY99189AMU120TCG	NCP114AMX180TCG
SCY99238AMX300TCG	NCP114AMX180TCG
SCY99238AMX280TCG	NCP114AMX180TCG
SCY99238AMX180TCG	NCP114AMX180TCG
SCY99238AMX120TCG	NCP114AMX180TCG
SCY99195AMX100TCG	NCP114AMX180TCG



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SCY99189AMU330TCG	NCP114AMX180TCG
SCY99189AMU270TCG	NCP114AMX180TCG
SCY99189AMU240TCG	NCP114AMX180TCG
SCY99189AMU220TCG	NCP114AMX180TCG
SCY99189AMU180TCG	NCP114AMX180TCG
SCY99189AMU115TCG	NCP114AMX180TCG
SCY99189AMU100TCG	NCP114AMX180TCG
SCY99187AMX330TCG	NCP114AMX180TCG
SCY99187AMX310TCG	NCP114AMX180TCG
SCY99187AMX300TCG	NCP114AMX180TCG
SCY99187AMX270TCG	NCP114AMX180TCG
SCY99187AMX240TCG	NCP114AMX180TCG
NCP114BMX100TCG	NCP114AMX180TCG
NCP114AMX240TCG	NCP114AMX180TCG
NCP114AMX105TCG	NCP114AMX180TCG
NCP114AMX100TCG	NCP114AMX180TCG

**Appendix A: Changed Products**

**PCN#: IPCN25070XA**  
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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP114BMX330TCG		NCP114AMX180TCG	NA	
NCP114BMX250TCG		NCP114AMX180TCG	NA	
NCP114AMX360TCG		NCP114AMX180TCG	NA	
NCP114AMX330TCG		NCP114AMX180TCG	NA	
NCP114AMX330TBG		NCP114AMX180TCG	NA	
NCP114AMX310TBG		NCP114AMX180TCG	NA	
NCP114AMX300TCG		NCP114AMX180TCG	NA	
NCP114AMX285TCG		NCP114AMX180TCG	NA	
NCP114AMX280TCG		NCP114AMX180TCG	NA	
NCP114AMX280TBG		NCP114AMX180TCG	NA	
NCP114AMX270TCG		NCP114AMX180TCG	NA	
NCP114AMX250TCG		NCP114AMX180TCG	NA	
NCP114AMX250TBG		NCP114AMX180TCG	NA	
NCP114AMX220TCG		NCP114AMX180TCG	NA	
NCP114AMX185TCG		NCP114AMX180TCG	NA	
NCP114AMX180TCG		NCP114AMX180TCG	NA	
NCP114AMX180TBG		NCP114AMX180TCG	NA	
NCP114AMX160TCG		NCP114AMX180TCG	NA	
NCP114AMX150TCG		NCP114AMX180TCG	NA	
NCP114AMX135TCG		NCP114AMX180TCG	NA	
NCP114AMX130TCG		NCP114AMX180TCG	NA	
NCP114AMX125TCG		NCP114AMX180TCG	NA	
NCP114AMX120TCG		NCP114AMX180TCG	NA	
NCP114AMX120TBG		NCP114AMX180TCG	NA	
NCP114AMX115TCG		NCP114AMX180TCG	NA	
NCP114AMX110TCG		NCP114AMX180TCG	NA	
NCP114AMX090TCG		NCP114AMX180TCG	NA	
NCP103AMX180TCG		NCP114AMX180TCG	NA	
NCP103BMX330TCG		NCP114AMX180TCG	NA	
NCP114AMX075TCG		NCP114AMX180TCG	NA	
NCP114AMX105TCG		NCP114AMX180TCG	NA	
NCP114AMX100TCG		NCP114AMX180TCG	NA	
NCP114BMX180TCG		NCP114AMX180TCG	NA	