



Final Product/Process Change Notification

Document #:FPCN24526XN

Issue Date:21 Apr 2025

Title of Change:	Qualification of Alternate Lead Frame with C7025 base material for xDFN4/6 1.2x1.2 and Bonding Wire Change
Proposed First Ship date:	28 Jul 2025 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office
PCN Samples Contact:	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.
Additional Reliability Data:	Contact your local onsemi Sales Office
Type of Notification:	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 PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Product traceability will be maintained by date code
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Tarlac, Philippines	None

Description and Purpose:		
<p>onsemi Tarlac, Philippines is announcing the qualification of C7025 Base Material, AAM (Advanced Assembly Materials International Ltd.) as a new lead frame supplier, and conversion of bond wire material from 0.8 mil gold (Au) to 0.8 mil palladium coated copper (PCC) for XDFN4/6 1.2 x 1.2 devices.</p> <p>This change will be implemented to mitigate lead frame supply disruption as the current supplier has ceased operation and can no longer support Last Time Buy. onsemi has a very limited supply of the current lead frame and customers are encouraged to review this change in order to minimize any potential impact to their supply chain. Once the existing inventory of the current lead frame has been depleted, onsemi will immediately implement the new lead frame. Customers not wishing to receive material assembled with the new lead frame will need to work with their local sales contact to push out orders.</p>		
	From	To
Wire Material	Gold	PCC
Lead frame Supplier	DCI	AAM
Base Material	EFTEC64 1/2H	C7025 1/2H
Note:		
1. There is no product marking change and product traceability will be maintained by lot and date code.		



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Reliability Data Summary:

QV DEVICE NAME: NCP171AMX280275TCG | SCY99271AMX330TBG | SCY99223AMX330TBG | NCP160AMX500TBG
RMS: O100303 | S84326 | S85657 | S85716
PACKAGE: xDFN4

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, for surface mount pkgs only		0/960
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/320
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/320
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/320
Solderability	J-STD-002	Ta = 245°C, 5 sec		0/ 15
Physical Dimension	JESD22-B120			0/30

QV DEVICE NAME: NCP133AMXADJTCG
RMS: S100304
PACKAGE: xDFN6

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, for surface mount pkgs only		0/720
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/240
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/240
Solderability	J-STD-002	Ta = 245°C, 5 sec		0/ 15
Physical Dimension	JESD22-B120			0/30

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
NCP133AMX125TCG	NCP133AMXADJTCG
SCY99222AMX120TCG	NCP133AMXADJTCG
NCP133AMX120TCG	NCP133AMXADJTCG
NCP133AMX115TCG	NCP133AMXADJTCG



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NCP133AMX105TCG	NCP133AMXADJTCG
NCP133AMX090TCG	NCP133AMXADJTCG
NCP130BMX210TCG	NCP133AMXADJTCG
NCP130BMX180TCG	NCP133AMXADJTCG
NCP130BMX150TCG	NCP133AMXADJTCG
NCP130BMX120TCG	NCP133AMXADJTCG
NCP130BMX115TCG	NCP133AMXADJTCG
NCP130BMX110TCG	NCP133AMXADJTCG
NCP130BMX090TCG	NCP133AMXADJTCG
NCP130BMX080TCG	NCP133AMXADJTCG
NCP130AMX210TCG	NCP133AMXADJTCG
NCP130AMX180TCG	NCP133AMXADJTCG
NCP130AMX150TCG	NCP133AMXADJTCG
NCP130AMX115TCG	NCP133AMXADJTCG
NCP130AMX105TCG	NCP133AMXADJTCG
NCP130AMX100TCG	NCP133AMXADJTCG
NCP130AMX090TCG	NCP133AMXADJTCG
NCP130AMX080TCG	NCP133AMXADJTCG
NCP171AMX330325TCG	NCP171AMX280275TCG
NCP171AMX330310TCG	NCP171AMX280275TCG
NCP171AMX280275TCG	NCP171AMX280275TCG
NCP171AMX170165TCG	NCP171AMX280275TCG
NCP171AMX165160TCG	NCP171AMX280275TCG
NCP171AMX120100TCG	NCP171AMX280275TCG
NCP171AMX080075TCG	NCP171AMX280275TCG
NCP171AMX080060TCG	NCP171AMX280275TCG
NCP171A3MX170165TCG	NCP171AMX280275TCG
NCP134AMX135TCG	NCP171AMX280275TCG
SCY99205AMX100TCG	NCP171AMX280275TCG
NCP152MX280120TCG	NCP133AMXADJTCG
NCP130AMX120TCG	NCP133AMXADJTCG
NCP171AMX180175TCG	NCP171AMX280275TCG
NCP171AMX100080TCG	NCP171AMX280275TCG