



Final Product/Process Change Notification

Document #:FPCN24526XA

Issue Date:12 Apr 2022

Title of Change:	Qualification of Alternate Lead Frame with C7025 base material for XDFN 4 1x1		
Proposed First Ship date:	30 Jul 2022 or earlier if approved by customer		
Contact Information:	Contact your local onsemi Sales Office or Samuel.Sarmiento@onsemi.com		
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 or Andy.Esteva@onsemi.com		
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:			
onsemi is announcing the qualification of C7025 Base Material and adding AAMI (Advanced Assembly Materials International Ltd.) supplier for QFN devices in onsemi Tarlac, Philippines. This change is implemented to mitigate potential supply disruption; customers are encouraged to urgently review this change in order to minimize any potential impact to their supply chain. Upon implementation of this change, any of the qualified suppliers will be used to support demand.			
	From		To
Lead frame Supplier	Dynacraft Industries	Dynacraft Industries	Advanced Assembly Materials International Ltd.
Base Material	EFTEC64 1/2H	EFTEC64 1/2H	C7025 1/2H
Plating type	Ni, Pd, Au Ag	Ni, Pd, Au Ag	Ni, Pd, Au
Roughened	non-rough	non-rough	roughed
Note: 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: NL3S2223MUTBG

RMS#: S42761

PACKAGE: UQFN10 1.4x1.8 Au wire

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/45

QV DEVICE NAME: NCP81258MNTBG

RMS#: O57784

PACKAGE: DFN8 2x2 PCC wire

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/45

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
NCP160AMX180TBG	NL3S2223MUTBG
NCP160AMX1825TBG	NL3S2223MUTBG
NCP160AMX280TBG	NL3S2223MUTBG
NCP160AMX290TBG	NL3S2223MUTBG
NCP160AMX300TBG	NL3S2223MUTBG
NCP160AMX320TBG	NL3S2223MUTBG
NCP160AMX330TBG	NL3S2223MUTBG
NCP160AMX350TBG	NL3S2223MUTBG



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NCP160AMX500TBG	NL3S2223MUTBG
NCP160BMX280TBG	NL3S2223MUTBG
NCP160BMX285TBG	NL3S2223MUTBG
NCP160BMX514TBG	NL3S2223MUTBG
NCP161AMX185TBG	NL3S2223MUTBG
NCP161AMX280TBG	NL3S2223MUTBG
NCP161AMX300TBG	NL3S2223MUTBG
NCP161AMX320TBG	NL3S2223MUTBG
NCP161AMX330TBG	NL3S2223MUTBG
NCP161BMX180TBG	NL3S2223MUTBG
NCP161BMX250TBG	NL3S2223MUTBG
NCP161BMX280TBG	NL3S2223MUTBG
NCP161BMX330TBG	NL3S2223MUTBG
NCP161BMX350TBG	NL3S2223MUTBG
NCP161BMX514TBG	NL3S2223MUTBG
NCP163AMX120TBG	NL3S2223MUTBG
NCP163AMX130TBG	NL3S2223MUTBG
NCP163AMX180TBG	NL3S2223MUTBG
NCP163AMX270TBG	NL3S2223MUTBG
NCP163AMX280TBG	NL3S2223MUTBG
NCP163AMX290TBG	NL3S2223MUTBG
NCP163AMX300TBG	NL3S2223MUTBG
NCP163AMX330TBG	NL3S2223MUTBG
NCP163AMX500TBG	NL3S2223MUTBG
NCP163BMX180TBG	NL3S2223MUTBG
NCP163BMX1825TBG	NL3S2223MUTBG
NCP170AMX120TCG	NL3S2223MUTBG
NCP170AMX135TCG	NL3S2223MUTBG
NCP170AMX150TCG	NL3S2223MUTBG
NCP170AMX180TBG	NL3S2223MUTBG
NCP170AMX180TCG	NL3S2223MUTBG
NCP170AMX250TCG	NL3S2223MUTBG
NCP170AMX280TBG	NL3S2223MUTBG
NCP170AMX280TCG	NL3S2223MUTBG



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NCP170AMX300TBG	NL3S2223MUTBG
NCP170AMX300TCG	NL3S2223MUTBG
NCP170AMX330TBG	NL3S2223MUTBG
NCP170AMX330TCG	NL3S2223MUTBG
NCP170AMX360TCG	NL3S2223MUTBG
NCP170BMX135TCG	NL3S2223MUTBG
NCP170BMX150TCG	NL3S2223MUTBG
NCP170BMX180TCG	NL3S2223MUTBG
NCP170BMX190TCG	NL3S2223MUTBG
NCP170BMX250TCG	NL3S2223MUTBG
NCP707CMX300TCG	NL3S2223MUTBG
NCP707CMX300TBG	NL3S2223MUTBG
NCP170BMX360TCG	NL3S2223MUTBG
NCP170BMX330TCG	NL3S2223MUTBG
NCP170BMX310TCG	NL3S2223MUTBG
NCP170BMX285TCG	NL3S2223MUTBG
NCP170BMX280TCG	NL3S2223MUTBG
NCP115AMX100TCG	NCP81258MNTBG
NCP115AMX105TCG	NCP81258MNTBG
NCP115AMX110TBG	NCP81258MNTBG
NCP115AMX110TCG	NCP81258MNTBG
NCP115AMX120TBG	NCP81258MNTBG
NCP115AMX120TCG	NCP81258MNTBG
NCP115AMX150TCG	NCP81258MNTBG
NCP115AMX180TBG	NCP81258MNTBG
NCP115AMX180TCG	NCP81258MNTBG
NCP115AMX250TCG	NCP81258MNTBG
NCP115AMX280TBG	NCP81258MNTBG
NCP115AMX280TCG	NCP81258MNTBG
NCP115AMX300TCG	NCP81258MNTBG
NCP115AMX330TBG	NCP81258MNTBG
NCP115AMX330TCG	NCP81258MNTBG
NCP115CMX110TBG	NCP81258MNTBG
NCP115CMX120TBG	NCP81258MNTBG



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NCP115CMX120TCG	NCP81258MNTBG
NCP115CMX150TCG	NCP81258MNTBG
NCP115CMX180TBG	NCP81258MNTBG
NCP115CMX180TCG	NCP81258MNTBG
NCP115CMX250TCG	NCP81258MNTBG
NCP115CMX280TBG	NCP81258MNTBG
NCP115CMX280TCG	NCP81258MNTBG
NCP115CMX300TBG	NCP81258MNTBG
NCP115CMX300TCG	NCP81258MNTBG
NCP115CMX330TBG	NCP81258MNTBG
NCP115CMX330TCG	NCP81258MNTBG
NCP115CMX100TCG	NCP81258MNTBG
NCP115CMX105TCG	NCP81258MNTBG
NCP115CMX110TCG	NCP81258MNTBG
NCP115CMX150TBG	NCP81258MNTBG
NCP151CCMX280180TCG	NCP81258MNTBG
NCP151AAMX330180TCG	NCP81258MNTBG
NCP151AAMX280180TCG	NCP81258MNTBG
NCP151AAMX180075TCG	NCP81258MNTBG
NCP151AAMX180070TCG	NCP81258MNTBG
NCP160AMX514TBG	NL3S2223MUTBG
NCP160BMX1825TBG	NL3S2223MUTBG
NCP160BMX275TBG	NL3S2223MUTBG
NCP161AMX514TBG	NL3S2223MUTBG
NCP163AMX1825TBG	NL3S2223MUTBG
SCP160AMX280TBG	NL3S2223MUTBG
SCY99240AMX280TBG	NL3S2223MUTBG

Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP160AMX180TBG		NL3S2223MUTBG		
NCP160AMX280TBG		NL3S2223MUTBG		
NCP160AMX290TBG		NL3S2223MUTBG		
NCP160AMX300TBG		NL3S2223MUTBG		
NCP160AMX320TBG		NL3S2223MUTBG		
NCP160AMX330TBG		NL3S2223MUTBG		
NCP160AMX350TBG		NL3S2223MUTBG		
NCP160AMX500TBG		NL3S2223MUTBG		
NCP161AMX280TBG		NL3S2223MUTBG		
NCP161AMX300TBG		NL3S2223MUTBG		
NCP161AMX330TBG		NL3S2223MUTBG		
NCP161BMX180TBG		NL3S2223MUTBG		
NCP161BMX250TBG		NL3S2223MUTBG		
NCP161BMX280TBG		NL3S2223MUTBG		
NCP161BMX330TBG		NL3S2223MUTBG		
NCP163AMX120TBG		NL3S2223MUTBG		
NCP163AMX180TBG		NL3S2223MUTBG		
NCP163AMX270TBG		NL3S2223MUTBG		
NCP163AMX280TBG		NL3S2223MUTBG		
NCP163AMX290TBG		NL3S2223MUTBG		
NCP163AMX300TBG		NL3S2223MUTBG		
NCP163AMX330TBG		NL3S2223MUTBG		
NCP163AMX500TBG		NL3S2223MUTBG		
NCP170AMX120TCG		NL3S2223MUTBG		
NCP160AMX1825TBG		NL3S2223MUTBG		
NCP170AMX250TCG		NL3S2223MUTBG		
NCP170AMX280TCG		NL3S2223MUTBG		
NCP170AMX180TCG		NL3S2223MUTBG		
NCP170AMX330TCG		NL3S2223MUTBG		
NCP170AMX300TCG		NL3S2223MUTBG		
NCP170BMX180TCG		NL3S2223MUTBG		
NCP170AMX360TCG		NL3S2223MUTBG		
NCP170BMX330TCG		NL3S2223MUTBG		
NCP170BMX250TCG		NL3S2223MUTBG		
NCP115AMX120TCG		NCP81258MNTBG		
NCP170BMX280TCG		NL3S2223MUTBG		
NCP115AMX180TCG		NCP81258MNTBG		
NCP115AMX150TCG		NCP81258MNTBG		
NCP115AMX280TCG		NCP81258MNTBG		
NCP115AMX250TCG		NCP81258MNTBG		
NCP115AMX330TCG		NCP81258MNTBG		
NCP115AMX300TCG		NCP81258MNTBG		
NCP115CMX150TCG		NCP81258MNTBG		
NCP115CMX120TCG		NCP81258MNTBG		
NCP115CMX180TCG		NCP81258MNTBG		
NCP115CMX250TCG		NCP81258MNTBG		
NCP115CMX300TCG		NCP81258MNTBG		
NCP115CMX280TCG		NCP81258MNTBG		
NCP115CMX330TCG		NCP81258MNTBG		
NCP151CCMX280180TCG		NCP81258MNTBG		
NCP151AAMX330180TCG		NCP81258MNTBG		
NCP151AAMX280180TCG		NCP81258MNTBG		
NCP151AAMX180070TCG		NCP81258MNTBG		