



Final Product/Process Change Notification

Document #:FPCN24061X

Issue Date:05 Nov 2021

Title of Change:	Cu Wire Conversion from 1mil Au to 1mil PdCu for ONC25 and Combo (ONC25+VHVIC) devices
Proposed First Ship date:	19 Feb 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Scott.Brow@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office or < PCN.samples@onsemi.com >. 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 Nhel.Malonzo@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 marked with date code 2207 or later may be built with Cu wire.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites

onsemi Carmona, Philippines

External Foundry/Subcon Sites

None

Description and Purpose:

onsemi would like to notify its customers of the qualification of Pd Cu (Palladium Coated Cu) wire for the products listed in this change notification. There have been no other changes to the BOM other than the wire type.

	Before Change Description	After Change Description
Bond Wire	1.0mil Au	1.0mil Pd Cu

Upon expiry of this Product Change Notification, the products listed will convert their BOMs to the new wire type. There is no change in the wire size.

Also, there is no product marking change as a result of this change.

Reliability Data Summary:

QV DEVICE NAME: NCP51530BDR2G NCL30086BHDR2G

RMS : O78091 / O78092

PACKAGE : SOIC 8

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	0/270
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	528 hrs	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		0/750

QV DEVICE NAME : NCP1399ACDR2G

RMS : O77414 / O77602 / O79220

PACKAGE: SOIC 16

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	0/270
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/201
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C		0/750

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
NCL2801CDADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL2801CDBDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL2801CFADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30060B2DR2G	NCP1399ACDR2G
NCL30060BDR2G	NCP1399ACDR2G
NCL30082BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30082DDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30086BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30086BHDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30186BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30186DDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCL30188BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP1239AD100R2G	NCP1399ACDR2G



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Document #:FPCN24061X

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NCP1239AD65R2G	NCP1399ACDR2G
NCP1239BD100R2G	NCP1399ACDR2G
NCP1239BD65R2G	NCP1399ACDR2G
NCP1239CD65R2G	NCP1399ACDR2G
NCP1239DD100R2G	NCP1399ACDR2G
NCP1239DD65R2G	NCP1399ACDR2G
NCP1239ED100R2G	NCP1399ACDR2G
NCP1239ED65R2G	NCP1399ACDR2G
NCP1239FD65R2G	NCP1399ACDR2G
NCP1239GD100R2G	NCP1399ACDR2G
NCP1239HD65R2G	NCP1399ACDR2G
NCP1239ID65R2G	NCP1399ACDR2G
NCP1239KD65R2G	NCP1399ACDR2G
NCP1239LD65R2G	NCP1399ACDR2G
NCP1239RD65R2G	NCP1399ACDR2G
NCP12400BBBBA0DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP12400BBHAA1DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP12400CAHAB0DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP12400CBAAB0DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP12400CBHAA0DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP12400EAHBB0DR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP1340B10DR2G	NCP1399ACDR2G
NCP1365AABCYDR2G	NCP1399ACDR2G
NCP1365ACBAXDR2G	NCP1399ACDR2G
NCP1366AABAYDR2G	NCP1399ACDR2G
NCP1370BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP13992AADR2G	NCP1399ACDR2G
NCP13992ABDR2G	NCP1399ACDR2G
NCP13992ACDR2G	NCP1399ACDR2G
NCP13992ADDR2G	NCP1399ACDR2G
NCP13992AEDR2G	NCP1399ACDR2G
NCP13992AFDR2G	NCP1399ACDR2G
NCP13992AGDR2G	NCP1399ACDR2G
NCP13992AHDR2G	NCP1399ACDR2G



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NCP13992AJDR2G	NCP1399ACDR2G
NCP13992AMDR2G	NCP1399ACDR2G
NCP1399AADR2G	NCP1399ACDR2G
NCP1399ACDR2G	NCP1399ACDR2G
NCP1399AFDR2G	NCP1399ACDR2G
NCP1399AGDR2G	NCP1399ACDR2G
NCP1399AHDR2G	NCP1399ACDR2G
NCP1399AIDR2G	NCP1399ACDR2G
NCP1399AMDR2G	NCP1399ACDR2G
NCP1399ANDR2G	NCP1399ACDR2G
NCP1399APDR2G	NCP1399ACDR2G
NCP1399ARDR2G	NCP1399ACDR2G
NCP1399ASDR2G	NCP1399ACDR2G
NCP1399ATDR2G	NCP1399ACDR2G
NCP1399BADR2G	NCP1399ACDR2G
NCP1611ADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP1611BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP1615C4DR2G	NCP1399ACDR2G
NCP1615C5DR2G	NCP1399ACDR2G
NCP4305ADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP4305DDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP4305QDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP4306AADZZZADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP43080ADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP43080DDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP4308DDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP4355CDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP51530ADR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP51530BDR2G	NCP51530BDR2G / NCL30086BHDR2G
NCP13992AKDR2G	NCP1399ACDR2G
NCP13992ALDR2G	NCP1399ACDR2G
NCP13992ANDR2G	NCP1399ACDR2G
NCP13992ARDR2G	NCP1399ACDR2G
NCP13992ASDR2G	NCP1399ACDR2G



Final Product/Process Change Notification
Document #:FPCN24061X
Issue Date:05 Nov 2021

NCP13992ATDR2G	NCP1399ACDR2G
NCP13992AUDR2G	NCP1399ACDR2G
NCP13992AWDR2G	NCP1399ACDR2G

Appendix A: Changed Products

PCN#: FPCN24061X
Issue Date: Nov 04, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCL2801CDADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCL2801CFADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCL30060B2DR2G		NCP1399ACDR2G		
NCL30186BDR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP1239BD100R2G		NCP1399ACDR2G		
NCP1239BD65R2G		NCP1399ACDR2G		
NCP1239ED65R2G		NCP1399ACDR2G		
NCP1239KD65R2G		NCP1399ACDR2G		
NCP12400CBAAB0DR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP13992AADR2G		NCP1399ACDR2G		
NCP13992ABDR2G		NCP1399ACDR2G		
NCP13992ACDR2G		NCP1399ACDR2G		
NCP13992AFDR2G		NCP1399ACDR2G		
NCP1399AADR2G		NCP1399ACDR2G		
NCP1399AIDR2G		NCP1399ACDR2G		
NCP1399APDR2G		NCP1399ACDR2G		
NCP1611ADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP1611BDR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP4305ADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP4305DDR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP4306AADZZADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP43080ADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP43080DDR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP4308DDR2G		NCP51530BDR2G / NCL30086BHDR2G		

Appendix A: Changed Products

PCN#: FPCN24061X
Issue Date: Nov 04, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP51530ADR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCP51530BDR2G		NCP51530BDR2G / NCL30086BHDR2G		
NCL2801CDBDR2G		NCP51530BDR2G / NCL30086BHDR2G		