Final Product/Process Change Notification

Document #:FPCN25463XB
Issue Date:25 Nov 2024

Title of Change:	Copper Wire Conversion from Au to PCC wire for ONC25 devices.
Proposed First Ship date:	04 Mar 2025 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Nissy.Curioso@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 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:	The affected parts will be identified by date code
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	**External Foundry/Subcon Sites**
onsemi Carmona, Philippines	None

Description and Purpose:

onsemi would like to inform customers of the planned change from 0.8 and 1.0 mil Au to 0.8 and 1.0 mil PCC wire on select products assembled in onsemi, Carmona Philippines.

There is no planned change to the orderable part numbers, or product marking, and there is no anticipated change to product parametric performance or datasheet parameters.

	From	**To**
Bond Wire	0.8 mil Au Wire 1.0 mil Au Wire	0.8 mil PCC Wire 1.0 mil PCC Wire

Reliability Data Summary:

QV DEVICE NAME: NCV4333DTBR2G
RMS: O92726 / O92738
PACKAGE: TSSOP-14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV4333DR2G / NCV20074DR2G
RMS: O92730 / O88153
PACKAGE: SOIC 14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV20074DTBR2G/ NCV20074DR2G
RMS: O94023 / O88153
PACKAGE: TSSOP 14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV1362AADR2G
RMS: O92752 / O92813
PACKAGE: SOIC 8

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

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
NB3H83905CDTG	NCV4333DTBR2G
NB3L8504SDTG	NCV4333DTBR2G
NB3L8504SDTR2G	NCV4333DTBR2G
NB3L8533DTR2G	NCV4333DTBR2G
NCS4333DR2G	NCV4333DR2G
NCS21874DR2G	NCV4333DR2G NCV20074DR2G
NB3V1108CDTR2G	NCV4333DTBR2G
NCS4333DTBR2G	NCV4333DTBR2G
NCS21874DTBR2G	NCV4333DTBR2G
NCP1568G03DBR2G	NCV4333DTBR2G
NCP1568G04DBR2G	NCV4333DTBR2G
NCS4325DR2G	NCV4333DR2G
NCT375DR2G	NCV4333DR2G
NB3V1103CDTR2G	NCV20074DTBR2G

NB3V1102CDTR2G	NCV20074DTBR2G
NB3N853531EDTR2G	NCV4333DTBR2G
NCS20032DTBR2G	NCV20074DTBR2G NCV20074DR2G
NCS2632DTBR2G	NCV20074DTBR2G
NCS603DTBR2G	NCV20074DTBR2G
NCS21872DR2G	NCV4333DR2G NCV20074DR2G
LMV358IDR2G	NCV4333DR2G
LMV393DR2G	NCV4333DR2G
NB3V1106CDTR2G	NCV20074DTBR2G
NCS2325DR2G	NCV4333DR2G NCV20074DR2G
NCP1362ABDR2G	NCV1362AADR2G
NCP1362AADR2G	NCV1362AADR2G
LMV932DR2G	NCV4333DR2G
NB3M8302CDG	NCV4333DR2G
NB3M8304CDR2G	NCV20074DR2G
TLV272DR2G	NCV4333DR2G NCV20074DR2G

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onsemi Carmona, Philippines	None

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	From	**To**
Bond Wire	0.8 mil Au Wire 1.0 mil Au Wire	0.8 mil PCC Wire 1.0 mil PCC Wire

Reliability Data Summary:

QV DEVICE NAME: NCV4333DTBR2G
RMS: O92726 / O92738
PACKAGE: TSSOP-14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV4333DR2G / NCV20074DR2G
RMS: O92730 / O88153
PACKAGE: SOIC 14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV20074DTBR2G/ NCV20074DR2G
RMS: O94023 / O88153
PACKAGE: TSSOP 14

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

QV DEVICE NAME: NCV1362AADR2G
RMS: O92752 / O92813
PACKAGE: SOIC 8

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/ 231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/ 231

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
NB3H83905CDTG	NCV4333DTBR2G
NB3L8504SDTG	NCV4333DTBR2G
NB3L8504SDTR2G	NCV4333DTBR2G
NB3L8533DTR2G	NCV4333DTBR2G
NCS4333DR2G	NCV4333DR2G
NCS21874DR2G	NCV4333DR2G NCV20074DR2G
NB3V1108CDTR2G	NCV4333DTBR2G
NCS4333DTBR2G	NCV4333DTBR2G
NCS21874DTBR2G	NCV4333DTBR2G
NCP1568G03DBR2G	NCV4333DTBR2G
NCP1568G04DBR2G	NCV4333DTBR2G
NCS4325DR2G	NCV4333DR2G
NCT375DR2G	NCV4333DR2G
NB3V1103CDTR2G	NCV20074DTBR2G

NB3V1102CDTR2G	NCV20074DTBR2G
NB3N853531EDTR2G	NCV4333DTBR2G
NCS20032DTBR2G	NCV20074DTBR2G NCV20074DR2G
NCS2632DTBR2G	NCV20074DTBR2G
NCS603DTBR2G	NCV20074DTBR2G
NCS21872DR2G	NCV4333DR2G NCV20074DR2G
LMV358IDR2G	NCV4333DR2G
LMV393DR2G	NCV4333DR2G
NB3V1106CDTR2G	NCV20074DTBR2G
NCS2325DR2G	NCV4333DR2G NCV20074DR2G
NCP1362ABDR2G	NCV1362AADR2G
NCP1362AADR2G	NCV1362AADR2G
LMV932DR2G	NCV4333DR2G
NB3M8302CDG	NCV4333DR2G
NB3M8304CDR2G	NCV20074DR2G
TLV272DR2G	NCV4333DR2G NCV20074DR2G

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NB3H83905CDTG		NCV4333DTBR2G	#NONE	
NB3L8504SDTR2G		NCV4333DTBR2G	#NONE	
NCS4333DR2G		NCV4333DR2G	#NONE	
NCS21874DR2G		NCV4333DR2G NCV20074DR2G	#NONE	
NB3V1108CDTR2G		NCV4333DTBR2G	#NONE	
NCS4333DTBR2G		NCV4333DTBR2G	#NONE	
NCS21874DTBR2G		NCV4333DTBR2G	#NONE	
NCP1568G03DBR2G		NCV4333DTBR2G	#NONE	
NCP1568G04DBR2G		NCV4333DTBR2G	#NONE	
NCS4325DR2G		NCV4333DR2G	#NONE	
NCT375DR2G		NCV4333DR2G	#NONE	
NB3V1103CDTR2G		NCV20074DTBR2G	#NONE	
NB3V1102CDTR2G		NCV20074DTBR2G	#NONE	
NB3N853531EDTR2G		NCV4333DTBR2G	#NONE	
NCS20032DTBR2G		NCV20074DTBR2G NCV20074DR2G	#NONE	
NCS2632DTBR2G		NCV20074DTBR2G	#NONE	
NCS603DTBR2G		NCV20074DTBR2G	#NONE	
NCS21872DR2G		NCV4333DR2G NCV20074DR2G	#NONE	
LMV358IDR2G		NCV4333DR2G	#NONE	
LMV393DR2G		NCV4333DR2G	#NONE	
NB3V1106CDTR2G		NCV20074DTBR2G	#NONE	
NCS2325DR2G		NCV4333DR2G NCV20074DR2G	#NONE	
NCP1362ABDR2G		NCV1362AADR2G	#NONE	
NCP1362AADR2G		NCV1362AADR2G	#NONE	
LMV932DR2G		NCV4333DR2G	#NONE	
NB3M8302CDG		NCV4333DR2G	#NONE	
NB3M8304CDR2G		NCV20074DR2G	#NONE	
TLV272DR2G		NCV4333DR2G NCV20074DR2G	#NONE	
NB3L8504SDTG		NCV4333DTBR2G	#NONE	