



Initial Product/Process Change Notification

Document #: IPCN25463X

Issue Date: 30 Aug 2023

Title of Change:	Wire conversion from Gold to Palladium Coated Copper for select ONC25 and ONCBDC25 devices assembled in SOIC and TSSOP packages in onsemi, Carmona.																										
Proposed First Ship date:	31 Jul 2024 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.																										
Type of Notification:	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 < 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.																											
<table><tr><th></th><th>From</th><th>To</th></tr><tr><td rowspan="2">Bond Wire</td><td>0.8 mil Au Wire</td><td>0.8 mil PCC wire</td></tr><tr><td>1.0 mil Au Wire</td><td>1.0 mil PCC wire</td></tr></table>					From	To	Bond Wire	0.8 mil Au Wire	0.8 mil PCC wire	1.0 mil Au Wire	1.0 mil PCC wire																
	From	To																									
Bond Wire	0.8 mil Au Wire	0.8 mil PCC wire																									
	1.0 mil Au Wire	1.0 mil PCC wire																									
Qualification Plan:																											
QV DEVICE NAME: NCV1362AADR2G																											
PACKAGE: SOIC-8N																											
<table><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th></tr><tr><td>High Temp Storage Life</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>2016 hours</td></tr><tr><td>Preconditioning</td><td>J STD 020 , JESD22-A113</td><td>MSL 1 @ 260°C</td><td></td></tr><tr><td>Highly Accelerated Stress Test</td><td>JESD22-A110</td><td>130°C, 85% RH, 18.8psig, bias</td><td>192 hrs</td></tr><tr><td>Temp Cycling</td><td>JESD22-A104</td><td>Ta= -65°C to +150°C</td><td>1000 cyc</td></tr><tr><td>Unbiased Highly Accelerated Stress Test</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig</td><td>96 hrs</td></tr></table>				Test	Specification	Condition	Interval	High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours	Preconditioning	J STD 020 , JESD22-A113	MSL 1 @ 260°C		Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	Temp Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs
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High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours																								
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QV DEVICE NAME: NCV20074DTBR2G

PACKAGE: SOIC-8N

Test	Specification	Condition	Interval
High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours
Preconditioning	J STD 020 , JESD22-A113	MSL 1 @ 260°C	
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
Temp Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs

QV DEVICE NAME: NCV2211DR2G

PACKAGE: SOIC-8N

Test	Specification	Condition	Interval
High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours
Preconditioning	J STD 020 , JESD22-A113	MSL 1 @ 260°C	
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hours
Temp Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig	96 hours

QV DEVICE NAME: NCV4333DTBR2G

PACKAGE: SOIC-8N

Test	Specification	Condition	Interval
High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours
Preconditioning	J STD 020 , JESD22-A113	MSL 1 @ 260°C	
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hours
Temp Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig	96 hours

QV DEVICE NAME: NCV5700DR2G

PACKAGE: SOIC-8N

Test	Specification	Condition	Interval
High Temp Storage Life	JESD22-A103	Ta= 150°C	2016 hours
Preconditioning	J STD 020 , JESD22-A113	MSL 1 @ 260°C	
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hours
Temp Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig	96 hours

Estimated date of qualification completion: **26 January 2024**



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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
NCD5705BDR2G	NCV20074DR2G
NCD5700DR2G	NCV5700DR2G
NCD5701ADR2G	NCV5700DR2G
NCD5701BDR2G	NCV5700DR2G
NCD5701CDR2G	NCV5700DR2G
NCD5702DR2G	NCV5700DR2G
NCD5703ADR2G	NCV5700DR2G
NCD5703BDR2G	NCV5700DR2G
NCD5703CDR2G	NCV5700DR2G
NCL30125B2DR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCL30488B1DR2G	NCV2211DR2G
NCL30125A2DR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
TS393DR2G	NCV2211DR2G
SCY99294ADR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP12400BBHAB0DR2G	NCV2211DR2G
NCP4306AAHZZADR2G	NCV2211DR2G
NCP4306AAZZADR2G	NCV2211DR2G
NCP1681BAD2R2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1681ABD2R2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1681AAD2R2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1680ABD1R2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1680AAD1R2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1618DDR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1618CDR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1618BDR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1618ADR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP1568S02DBR2G	NCV4333DTBR2G
NCP1568G04DBR2G	NCV4333DTBR2G
NCP1568G03DBR2G	NCV4333DTBR2G



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NCL30488B4DR2G	NCV2211DR2G
NCL30488B2DR2G	NCV2211DR2G
NCT75DR2G	NCV4333DR2G
NCT375DR2G	NCV4333DR2G
LMV358DR2G	NCV4333DR2G
LMV358IDR2G	NCV4333DR2G
LMV393DR2G	NCV4333DR2G
LMV932DR2G	NCV4333DR2G
NB3M8302CDG	NCV4333DR2G
NB3M8302CDR2G	NCV4333DR2G
NB3M8304CDG	NCV4333DR2G
NB3M8304CDR2G	NCV20074DR2G
NB3U1548CDTR2G	NCV20074DTBR2G
NB3V1102CDTR2G	NCV20074DTBR2G
NB3V1103CDTR2G	NCV20074DTBR2G
NB3V1104CDTR2G	NCV20074DTBR2G
NB3V1106CDTR2G	NCV20074DTBR2G
LMV324DR2G	NCV2211DR2G
LMV324DTBR2G	NCV4333DTBR2G
LMV339DR2G	NCV2211DR2G
LMV339DTBR2G	NCV4333DTBR2G
NB3H83905CDR2G	NCV2211DR2G
NB3H83905CDTG	NCV4333DTBR2G
NB3H83905CDTR2G	NCV4333DTBR2G
NB3L8504SDTG	NCV4333DTBR2G
NB3L8504SDTR2G	NCV4333DTBR2G
NB3L8533DTG	NCV4333DTBR2G
NB3L8533DTR2G	NCV4333DTBR2G
NB3L853141DTR2G	NCV4333DTBR2G
NB3N853501EDTR2G	NCV4333DTBR2G
NB3N853531EDTR2G	NCV4333DTBR2G
NB3U1548CDG	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NB3U1548CDR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NB3V1108CDTR2G	NCV4333DTBR2G



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NCL30185BDR2G	NCV2211DR2G
NCN8024DWR2G	NCV2211DR2G
NCN8024RDWR2G	NCV2211DR2G
NCP1362AADR2G	NCV1362AADR2G
NCP1362ABDR2G	NCV1362AADR2G
NCP1623ADR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCS603DTBR2G	NCV20074DTBR2G
NCS2632DTBR2G	NCV20074DTBR2G
NCS4325DR2G	NCV4333DR2G
NCS4333DR2G	NCV4333DR2G
NCS21874DR2G	NCV4333DR2G
NCS2211DR2G	NCV2211DR2G
NCS4333DTBR2G	NCV4333DTBR2G
NCS21874DTBR2G	NCV4333DTBR2G
NCS29001DR2G	NCV2211DR2G
NCP1623CDR2G	NCV1362AADR2G / NCV2211DR2G / NCV4333DTBR2G
NCP2811ADTBR2G	NCV4333DTBR2G