



Final Product/Process Change Notification

Document #:FPCN24887X

Issue Date:20 Apr 2023

Title of Change:	Gold to copper wire conversion for strategic parts at existing manufacturing site, UTAC Thailand Limited.
Proposed First Ship date:	27 Jul 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Peter.Vo@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 Phine.Guevarra@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:	Affected parts can be identified by the traceability code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

UTAC, Thailand

Description and Purpose:

This final change notification is to inform the completed qualification of gold wires conversion to copper wires for the listed affected parts currently being manufactured at UTAC Thailand, Limited, with locations in Bangkok and Bangsamak.

There is no product marking change as a result of this change.

	From	To
Bond Wire	Au wire	AuPdCu wire

Reliability Data Summary:

QV DEVICE NAME: NCS37010MNTWG

RMS: O86192

PACKAGE: QFN-16

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
PC	J-STD-020A, JESD22-A113	MSL 3@260	-	-
TC+PC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/231
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231



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QV DEVICE NAME: NCS37014MNTWG

RMS: O86194 / O86195

PACKAGE: QFN-16

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/308
PC	J-STD-020A, JESD22-A113	MSL 3@260	-	-
TC+PC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/308
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/308
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/308

QV DEVICE NAME: NCP1342AMDCDAD1R2G

RMS: O85956 / O85590

PACKAGE: SOICN-9

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/308
PC	J-STD-020A, JESD22-A113	MSL 1@260	-	-
TC+PC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/308
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, biased	192 hrs	0/308
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/308

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
NCS37010MNTWG	NCS37010MNTWG
NCS37014MNTWG	NCS37014MNTWG
NCS37014MNATWG	NCS37014MNTWG
NCS37015MNTWG	NCS37014MNTWG
NCP1342AMDCDAD1R2G	NCP1342AMDCDAD1R2G
NCP1340B3D1R2G	NCP1342AMDCDAD1R2G
NCP1340B4D1R2G	NCP1342AMDCDAD1R2G
NCP1340B5D1R2G	NCP1342AMDCDAD1R2G
NCP1340B7D1R2G	NCP1342AMDCDAD1R2G
NCP1340B8D1R2G	NCP1342AMDCDAD1R2G
NCP1340B9D1R2G	NCP1342AMDCDAD1R2G
NCP1341B1D1R2G	NCP1342AMDCDAD1R2G
NCP1341B4D1R2G	NCP1342AMDCDAD1R2G
NCP1341B5D1R2G	NCP1342AMDCDAD1R2G



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NCP1342AMAACD1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDADGD1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDCDD1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDCDHD1R2G	NCP1342AMDCDAD1R2G
NCP1342ANACCED1R2G	NCP1342AMDCDAD1R2G
NCP1342ANACED1R2G	NCP1342AMDCDAD1R2G
NCP1342ANDAAD1R2G	NCP1342AMDCDAD1R2G
NCP1342ANDBDD1R2G	NCP1342AMDCDAD1R2G
NCP1342BKDCDAD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDAD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDDD1R2G	NCP1342AMDCDAD1R2G
NCP1342DADBDD1R2G	NCP1342AMDCDAD1R2G
NCP1342ENACEFD1R2G	NCP1342AMDCDAD1R2G
NCP1342ENDCEAD1R2G	NCP1342AMDCDAD1R2G
NCP1343AMDCDBD1R2G	NCP1342AMDCDAD1R2G
NCP1343BADBDEAD1R2G	NCP1342AMDCDAD1R2G
NCP1343ENAAEBBD1R2G	NCP1342AMDCDAD1R2G
NCP1342DADBDD1R2G	NCP1342AMDCDAD1R2G
NCP1343FNAAABCD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDD1R2G	NCP1342AMDCDAD1R2G
NCP1341A1D1R2G	NCP1342AMDCDAD1R2G

Appendix A: Changed Products

PCN#: FPCN24887X
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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCS37010MNTWG	NCS37010MNTWGOSTR-ND	NCS37010MNTWG	NA	
NCP1342AMDCDAD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1340B3D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1340B5D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1340B7D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1340B8D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1341B1D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1341B5D1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342AMAACD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342AMDCDD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342ANACCED1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342ANDAAD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342ANDBDD1R2G		NCP1342AMDCDAD1R2G	NA	
NCS37014MNTWG		NCS37014MNTWG	NA	
NCP1342ENDCEAD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342DADBDD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342DADBBD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1343AMDCDBD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1342BMDCDD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1343BADBDEAD1R2G		NCP1342AMDCDAD1R2G	NA	
NCP1341A1D1R2G		NCP1342AMDCDAD1R2G	NA	