



Initial Product/Process Change Notification

Document #: IPCN24887X

Issue Date: 30 Sep 2022

Title of Change:	Gold to copper wire conversion for strategic parts at existing manufacturing site, UTAC Thailand Limited.
Proposed First Ship date:	02 Apr 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Jim Yeh < Jim.Yeh@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:	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 initial change notification is to inform the pending 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

Qualification Plan:

QV DEVICE NAME: NCS37010MNTWG

RMS: TBD

PACKAGE: QFN-16

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	
TC+PC	JESD22-A104	Ta= -65°C to +150°C	500 cyc
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs



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QV DEVICE NAME: NCP1342AMDCDAD1R2G

RMS: TBD

PACKAGE: SOICN-9

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
HTBB	M750-1048	TA=125C, bias=650V	1008 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
TC+PC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

QV DEVICE NAME: NCS37014MNTWG

RMS: TBD

PACKAGE: QFN-16

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
TC+PC	JESD22-A104	Ta= -65°C to +150°C	500 cyc
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

Estimated date for qualification completion: 31 December 2022

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
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
NCP1342DADBDGD1R2G	NCP1342AMDCDAD1R2G
NCP1343FNAAABCD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDD1R2G	NCP1342AMDCDAD1R2G
NCP1341A1D1R2G	NCP1342AMDCDAD1R2G
NCP1343ENAAEBBD1R2G	NCP1342AMDCDAD1R2G
NCP1343BADBDEAD1R2G	NCP1342AMDCDAD1R2G
NCP1343AMDCDBD1R2G	NCP1342AMDCDAD1R2G
NCP1342ENDCEAD1R2G	NCP1342AMDCDAD1R2G
NCP1342ENACEFD1R2G	NCP1342AMDCDAD1R2G
NCP1342DADBDD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDDD1R2G	NCP1342AMDCDAD1R2G
NCP1342BMDCDAD1R2G	NCP1342AMDCDAD1R2G
NCP1342BKDCDAD1R2G	NCP1342AMDCDAD1R2G
NCP1342ANDBDD1R2G	NCP1342AMDCDAD1R2G
NCP1342ANDAAD1R2G	NCP1342AMDCDAD1R2G
NCP1342ANACED1R2G	NCP1342AMDCDAD1R2G
NCP1342ANACED1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDCDHD1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDCDD1R2G	NCP1342AMDCDAD1R2G
NCP1342AMDADGD1R2G	NCP1342AMDCDAD1R2G