



Final Product/Process Change Notification

Document #:FPCN23586X1

Issue Date:29 Oct 2021

Title of Change:	Update to FPCN23586X - Adding detail about new wire type. Conversion from Au to Cu wire in TSOP6, SOT-23, and SOT-223 packages in Seremban, Malaysia.
Proposed First Ship date:	29 Oct 2021
Contact Information:	Contact your local onsemi Sales Office or Marty.Paul@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 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:	The trace code marking on Line 2 is of the form ALYW where A = Assembly Location, L = Wafer Lot ID and YW is a 2-digit date code. Product marked with "RS" or later as the date code may contain copper or gold wire.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Seremban, Malaysia	None

Description and Purpose:

This update notification is to add detail about new wire type since original FPCN did not specify if change was to pure copper or PCC. onsemi would like to inform its customers of our qualification of Palladium coated Cu wire (PCC) for TSOP6, SOT-23-3, and SOT-223 packages assembled at the Seremban, Malaysia assembly location for the products listed in this announcement. onsemi has completed qualification on:

QV DEVICE NAME: NCP1072STBT3G

	Before Change Description	After Change Description
Bond Wire	0.8mil GMG Au wire	0.8mil PCC wire

QV DEVICE NAME: NCP432BVSNT1G, NCP1251BSN65T1G

	Before Change Description	After Change Description
Bond Wire	0.8mil Au wire	0.8mil PCC wire

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



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Reliability Data Summary:

QV DEVICE NAME : NCP432BVSNT1G

RMS : S69404

PACKAGE : SOT-23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta = 150°C	2016 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	528 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

QV DEVICE NAME : NCP1072STBT3G

RMS : S69403

PACKAGE : SOT-223

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta = 150°C	2016 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

QV DEVICE NAME : NCP1251ASN65T1G

RMS : S72672

PACKAGE : TSOP-6

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta = 150°C	2016 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

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
NCP1072STAT3G	NCP1072STBT3G



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NCP1072STBT3G	NCP1072STBT3G
NCP1075STAT3G	NCP1072STBT3G
NCP432BVSNT1G	NCP432BVSNT1G
NCP431AVSNT1G	NCP432BVSNT1G
NCP431BVSNT1G	NCP432BVSNT1G
NCP431AISNT1G	NCP432BVSNT1G
NCP431BISNT1G	NCP432BVSNT1G
NCP431ACSNT1G	NCP432BVSNT1G
NCP432BISNT1G	NCP432BVSNT1G
NCP432BCSNT1G	NCP432BVSNT1G
NCP431BCSNT1G	NCP432BVSNT1G
NCL30288BSNT1G	NCP1251BSN65T1G
NCP1250BSN65T1G	NCP1251BSN65T1G
NCP1251ASN65T1G	NCP1251BSN65T1G
NCP1251BSN65T1G	NCP1251BSN65T1G
NCP1251BSN100T1G	NCP1251BSN65T1G
NCP1251CSN65T1G	NCP1251BSN65T1G
NCP1253BSN100T1G	NCP1251BSN65T1G
NCP1253BSN65T1G	NCP1251BSN65T1G
NCP4353BSNT1G	NCP1251BSN65T1G
NCP1256ASN100T1G	NCP1251BSN65T1G
NCP1256ASN65T1G	NCP1251BSN65T1G
NCP1256BSN65T1G	NCP1251BSN65T1G
NCP1256ESN65T1G	NCP1251BSN65T1G
NCP12510ASN100T1G	NCP1251BSN65T1G
NCP12510ASN65T1G	NCP1251BSN65T1G
NCP12510BSN100T1G	NCP1251BSN65T1G
NCP12510BSN65T1G	NCP1251BSN65T1G
NCP12510CSN65T1G	NCP1251BSN65T1G
NCP12510DSN65T1G	NCP1251BSN65T1G
NCP4306DADZZBASNT1G	NCP1251BSN65T1G
NCP4306DAHZZAASNT1G	NCP1251BSN65T1G
NCP4306DADZZDASNT1G	NCP1251BSN65T1G
NCP4328BSNT1G	NCP1251BSN65T1G



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NCP1077STAT3G	NCP1072STBT3G
NCP1075STCT3G	NCP1072STBT3G
NCP1075STBT3G	NCP1072STBT3G