



Title of Change:	Conversion from Au to Cu wire in TSOP6, SOT-23, SOT-223, and DFN-8 packages in Seremban, Malaysia.
Proposed First Ship date:	07 Aug 2021 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Marty.Paul@onsemi.com
PCN Samples Contact:	Contact your local ON Semiconductor 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.
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 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 "RF" or later as the date code may contain copper or gold wire.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

ON Semiconductor Sites	External Foundry/Subcon Sites
ON Semiconductor Seremban, Malaysia	None

Description and Purpose:

A General Announcement (GA#16200) was published on 1-29-09 regarding the ongoing Copper Wire bond conversion program at ON Semiconductor. This is an IPCN to notify customers that ON Semiconductor has begun qualification of Copper Wire (in place of Gold Wire) on TSOP6, DFN8, SOT-23-3, and SOT-223 packages assembled at the Seremban, Malaysia assembly location for the products listed in this announcement.

QV1: NCP1015ST100T3G

	Before Change Description	After Change Description
Bond Wire	1.5mil Au wire	1.0mil Cu wire

QV2: NCP1072STBT3G

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



QV3/5/6: NCP432BVSNT1G, NCP1251BSN65T1G, SCY99261AADZZAMN1TBG

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

QV4: NCP1623BSNT1G

	Before Change Description	After Change Description
Bond Wire	1.0mil Au wire	1.0mil Cu wire

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

Qualification Plan:

QV DEVICE NAME : NCP1015ST100T3G

RMS : S69399

PACKAGE : SOT-223

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

QV DEVICE NAME : NCP1072STBT3G

RMS : S69403

PACKAGE : SOT-223

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



QV DEVICE NAME : NCP1623BSNT1G

RMS : P71018

PACKAGE : TSOP-6

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	

QV DEVICE NAME : NCP1251ASN65T1G

RMS : 72672

PACKAGE : TSOP-6

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

QV DEVICE NAME : SCY99261AADZZAMN1TBG

RMS : 69397

PACKAGE : DFN-8

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

Estimated date for qualification completion: 11 April 2021

**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
NCP12510DSN65T1G	NCP1251BSN65T1G
NCP1256ASN100T1G	NCP1251BSN65T1G
NCP1011ST100T3G	NCP1015ST100T3G
NCP1012ST65T3G	NCP1015ST100T3G
NCP1012ST100T3G	NCP1015ST100T3G
NCP1012ST130T3G	NCP1015ST100T3G
NCP1014ST100T3G	NCP1015ST100T3G
NCP1014ST65T3G	NCP1015ST100T3G
NCP1015ST100T3G	NCP1015ST100T3G
NCP1015ST65T3G	NCP1015ST100T3G
NCP1072STAT3G	NCP1072STBT3G
NCP1072STBT3G	NCP1072STBT3G
NCP1075STAT3G	NCP1072STBT3G
NCP1075STBT3G	NCP1072STBT3G
NCP1075STCT3G	NCP1072STBT3G
NCP1077STAT3G	NCP1072STBT3G
NCP432BVSNT1G	NCP432BVSNT1G
NCP431AVSNT1G	NCP432BVSNT1G
NCP431BVSNT1G	NCP432BVSNT1G
NCP431AISNT1G	NCP432BVSNT1G
NCP431BISNT1G	NCP432BVSNT1G
NCP431ACSNT1G	NCP432BVSNT1G
NCP432BISNT1G	NCP432BVSNT1G
NCP432BCSNT1G	NCP432BVSNT1G
NCP431BCSNT1G	NCP432BVSNT1G
NCP1622BECSNT1G	NCP1623BSNT1G
NCP1622BCCSNT1G	NCP1623BSNT1G
NCP1622DCCSNT1G	NCP1623BSNT1G
NCP1622AEASNT1G	NCP1623BSNT1G



NCL30288BSNT1G	NCP1251BSN65T1G
NCP1250BSN65T1G	NCP1251BSN65T1G
NCP1251ASN65T1G	NCP1251BSN65T1G
NCP1251BSN65T1G	NCP1251BSN65T1G
NCP1251BSN100T1G	NCP1251BSN65T1G
NCP1251CSN65T1G	NCP1251BSN65T1G
NCP1253BSN100T1G	NCP1251BSN65T1G
NCP1253BSN65T1G	NCP1251BSN65T1G
NCP4328BSNT1G	NCP1251BSN65T1G
NCP4353BSNT1G	NCP1251BSN65T1G
NCP1256ASN65T1G	NCP1251BSN65T1G
NCP1256BSN65T1G	NCP1251BSN65T1G
NCP1256ESN65T1G	NCP1251BSN65T1G
NCP12510ASN100T1G	NCP1251BSN65T1G
NCP12510ASN65T1G	NCP1251BSN65T1G
NCP12510BSN100T1G	NCP1251BSN65T1G
NCP12510BSN65T1G	NCP1251BSN65T1G
NCP12510CSN65T1G	NCP1251BSN65T1G
NCP4306DADZZDASNT1G	NCP1251BSN65T1G
NCP4306DAHZZAASNT1G	NCP1251BSN65T1G
NCP4306DADZZBASNT1G	NCP1251BSN65T1G
NCP4306AAAZZZAMN1TBG	SCY99261AADZZAMN1TBG
NCP4306AADZZAMN1TBG	SCY99261AADZZAMN1TBG

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



初回製品 / プロセス変更通知

文書番号# : IPCN23586X

発行日: 07 Oct 2020

変更件名:	セレンバン (マレーシア) における TSOP6、SOT-23、SOT-223、DFN-8 パッケージのワイヤを金から銅に変更	
初回出荷予定日:	07 Aug 2021 またはお客様からの承認が得られた場合はそれ以前	
連絡先情報:	現地のオン・セミコンダクター営業所または < Marty.Paul@onsemi.com > にお問い合わせください。	
サンプル:	現地のオン・セミコンダクター営業所または < PCN.Samples@onsemi.com > にお問い合わせください。 サンプルは、この変更の初回通知、初回 PCN の日付から 30 日以内に要求してください。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。	
通知種別:	これは、お客様宛の初回製品 / プロセス変更通知 (IPCN) です。IPCN は、近日中に実施される変更に関する事前通知であり、変更の詳細および影響を受けるデバイスについての一般情報が記載されます。また、暫定的な信頼性認証計画も記載されます。 最終的な認定データおよび特性データは最終製品 / プロセス変更通知 (FPCN) に含まれます。この IPCN は、変更実施から少なくとも 90 日前に発行される最終製品 / プロセス変更通知 (FPCN) に先だって通知されます。ご不明な点がありましたら、< PCN.Support@onsemi.com > にお問い合わせください。	
部品のマーキング/変更のトレーサビリティ:	2 行目にマークされるトレースコードは、ALYW という形式で、A は組立場所、L はウエハーロット ID、YW は 2 桁の日付コードを示します。日付コードが「RF」以降でマークされた製品には、銅ワイヤまたは金ワイヤが含まれることとなります。	
変更カテゴリ:	組立の変更	
変更サブカテゴリ:	材料の変更	
影響を受ける拠点:		
外部製造工場 / 下請業者拠点:	外部製造工場 / 下請業者拠点:	
ON Semiconductor Seremban, Malaysia		なし

説明および目的:

オン・セミコンダクターで進行中の銅ワイヤボンド変更プログラムに関する一般的なお知らせ (GA#16200) は 2009 年 1 月 29 日に発行されました。この IPCN は、この通知にリストされている製品に関して、セレンバン (マレーシア) 工場で組み立てられた TSOP6、DFN8、SOT-23-3、SOT-223 パッケージに対する銅ワイヤ (金ワイヤの代わり) の認定をオン・セミコンダクターが開始したことをお客様にお知らせするものです。

QV1: NCP1015ST100T3G

	変更前の表記	変更後の表記
ボンドワイヤ	1.5mil Au wire	1.0mil Cu wire

QV2: NCP1072STBT3G

	変更前の表記	変更後の表記
ボンドワイヤ	0.8mil GMG Au wire	0.8mil Cu wire



QV3/5/6: NCP432BVSNT1G, NCP1251BSN65T1G, SCY99261AADZZAMN1TBG

	変更前の表記	変更後の表記
ボンドワイヤ	0.8mil Au wire	0.8mil Cu wire

QV4: NCP1623BSNT1G

	変更前の表記	変更後の表記
ボンドワイヤ	1.0mil Au wire	1.0mil Cu wire

今回の変更に伴う製品マーキングの変更はありません。

認定計画:

デバイス名: NCP1015ST100T3G

RMS: S69399

パッケージ: SOT-223

テスト	規格	条件	間隔
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

デバイス名: NCP1072STBT3G

RMS: S69403

パッケージ: SOT-223

テスト	規格	条件	間隔
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	



デバイス名: NCP1623BSNT1G

RMS : P71018

パッケージ: TSOP-6

テスト	規格	条件	間隔
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	

デバイス名: NCP1251ASN65T1G

RMS : 72672

パッケージ: TSOP-6

テスト	規格	条件	間隔
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

デバイス名: SCY99261AADZZAMN1TBG

RMS : 69397

パッケージ: DFN-8

テスト	規格	条件	間隔
HTSL	JESD22-A103	Ta = 150°C	2016 hrs
TC	JESD22-A104	Ta = -65°C to +150°C, mount on board	500 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

認定完了予定日 : 11 April 2021



影響を受ける部品の一覧:

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

部品番号	認定試験用ピークル
NCP1256ASN100T1G	NCP1251BSN65T1G
NCP1011ST100T3G	NCP1015ST100T3G
NCP1012ST65T3G	NCP1015ST100T3G
NCP1012ST100T3G	NCP1015ST100T3G
NCP1012ST130T3G	NCP1015ST100T3G
NCP1014ST100T3G	NCP1015ST100T3G
NCP1014ST65T3G	NCP1015ST100T3G
NCP1015ST100T3G	NCP1015ST100T3G
NCP1015ST65T3G	NCP1015ST100T3G
NCP1072STAT3G	NCP1072STBT3G
NCP1072STBT3G	NCP1072STBT3G
NCP1075STAT3G	NCP1072STBT3G
NCP1075STBT3G	NCP1072STBT3G
NCP1075STCT3G	NCP1072STBT3G
NCP1077STAT3G	NCP1072STBT3G
NCP432BVSNT1G	NCP432BVSNT1G
NCP431AVSNT1G	NCP432BVSNT1G
NCP431BVSNT1G	NCP432BVSNT1G
NCP431AISNT1G	NCP432BVSNT1G
NCP431BISNT1G	NCP432BVSNT1G
NCP431ACSNT1G	NCP432BVSNT1G
NCP432BISNT1G	NCP432BVSNT1G
NCP432BCSNT1G	NCP432BVSNT1G
NCP431BCSNT1G	NCP432BVSNT1G
NCP1622BECNT1G	NCP1623BSNT1G
NCP1622BCCSNT1G	NCP1623BSNT1G
NCP1622DCCSNT1G	NCP1623BSNT1G
NCP1622AEASNT1G	NCP1623BSNT1G
NCL30288BSNT1G	NCP1251BSN65T1G



初回製品 / プロセス変更通知

文書番号# : IPCN23586X

発行日: 07 Oct 2020

NCP1250BSN65T1G	NCP1251BSN65T1G
NCP1251ASN65T1G	NCP1251BSN65T1G
NCP1251BSN65T1G	NCP1251BSN65T1G
NCP1251BSN100T1G	NCP1251BSN65T1G
NCP1251CSN65T1G	NCP1251BSN65T1G
NCP1253BSN100T1G	NCP1251BSN65T1G
NCP1253BSN65T1G	NCP1251BSN65T1G
NCP4328BSNT1G	NCP1251BSN65T1G
NCP4353BSNT1G	NCP1251BSN65T1G
NCP1256ASN65T1G	NCP1251BSN65T1G
NCP1256BSN65T1G	NCP1251BSN65T1G
NCP1256ESN65T1G	NCP1251BSN65T1G
NCP12510ASN100T1G	NCP1251BSN65T1G
NCP12510ASN65T1G	NCP1251BSN65T1G
NCP12510BSN100T1G	NCP1251BSN65T1G
NCP12510BSN65T1G	NCP1251BSN65T1G
NCP12510CSN65T1G	NCP1251BSN65T1G
NCP12510DSN65T1G	NCP1251BSN65T1G
NCP4306DADZZDASNT1G	NCP1251BSN65T1G
NCP4306DAHZZAASNT1G	NCP1251BSN65T1G
NCP4306DADZZBASNT1G	NCP1251BSN65T1G
NCP4306AAAZZAMN1TBG	SCY99261AADZZAMN1TBG
NCP4306AADZZAMN1TBG	SCY99261AADZZAMN1TBG



Appendix A: Changed Products

D

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP1011ST100T3G		NCP1015ST100T3G	NA	
NCP1012ST100T3G		NCP1015ST100T3G	NA	
NCP1012ST130T3G		NCP1015ST100T3G	NA	
NCP1014ST100T3G		NCP1015ST100T3G	NA	
NCP1014ST65T3G		NCP1015ST100T3G	NA	
NCP1012ST65T3G		NCP1015ST100T3G	NA	
NCP4306AAZZZAMN1TBG		SCY99261AADZZZAMN1TBG	NA	
NCP1015ST100T3G		NCP1015ST100T3G	NA	
NCP1015ST65T3G		NCP1015ST100T3G	NA	
NCP1072STAT3G		NCP1072STBT3G	NA	
NCP1072STBT3G		NCP1072STBT3G	NA	
NCP1075STAT3G		NCP1072STBT3G	NA	
NCP1075STBT3G		NCP1072STBT3G	NA	
NCP1075STCT3G		NCP1072STBT3G	NA	
NCP1077STAT3G		NCP1072STBT3G	NA	
NCP432BVSNT1G		NCP432BVSNT1G	NA	
NCP431AVSNT1G		NCP432BVSNT1G	NA	
NCP431BVSNT1G		NCP432BVSNT1G	NA	
NCP431AISNT1G		NCP432BVSNT1G	NA	
NCP431BISNT1G		NCP432BVSNT1G	NA	
NCP431ACSNT1G		NCP432BVSNT1G	NA	
NCP432BISNT1G		NCP432BVSNT1G	NA	
NCP432BCSNT1G		NCP432BVSNT1G	NA	
NCP431BCSNT1G		NCP432BVSNT1G	NA	
NCP1622BECSNT1G		NCP1623BSNT1G	NA	
NCP1622DCCSNT1G		NCP1623BSNT1G	NA	
NCL30288BSNT1G		NCP1251BSN65T1G	NA	
NCP1250BSN65T1G		NCP1251BSN65T1G	NA	
NCP1251BSN65T1G		NCP1251BSN65T1G	NA	
NCP1251BSN100T1G		NCP1251BSN65T1G	NA	
NCP1253BSN100T1G		NCP1251BSN65T1G	NA	
NCP1253BSN65T1G		NCP1251BSN65T1G	NA	
NCP4328BSNT1G		NCP1251BSN65T1G	NA	
NCP4353BSNT1G		NCP1251BSN65T1G	NA	
NCP1256BSN65T1G		NCP1251BSN65T1G	NA	
NCP12510ASN65T1G		NCP1251BSN65T1G	NA	
NCP12510BSN65T1G		NCP1251BSN65T1G	NA	
NCP4306DADZZDASNT1G		NCP1251BSN65T1G	NA	
NCP4306DAHZZAASNT1G		NCP1251BSN65T1G	NA	
NCP4306AADZZZAMN1TBG		SCY99261AADZZZAMN1TBG	NA	