



**Supplement**  
**CUSTOMER PRODUCT-/ PROCESS CHANGE NOTIFICATION**

Reactions to this notifications are to be adressed to your local Philips sales representative or quality contact.

<b>CPCN Number:</b> 200305025S4	<b>CPCN Issue Date:</b> Sep 28 2004
<b>Author:</b> Maas Geesteranus, Michiel in Nijmegen	<b>Issued by:</b> Maas Geesteranus, Michiel in Nijmegen
<b>Previous Notifications:</b> May 28, 2003: 200305025 Advance Nov 05, 2003: 200305025F Final Dec 16, 2003: 200305025S Supplement	

**IC Application Area:** In Multiple IC Areas

**Change Affects a Whole Prod/Proc/Pkg Family?**

No

**Product Types/12ncs Affected:**

12NC	12NC (New)	Type Number	Type Number (New)	Philips Package Code	Package Name
999999999999		FOR THE TYPelist	SEE THE WEBPAGE A	INDICATED BELOW	UNDER REMARKS

**Change Category:** ASSEMBLY/SITE/PACKAGE/MATERIAL

**Change Description:**

Lead (Pb) containing leadfinish material will be replaced by a lead(Pb)-free leadfinish material. The 1st, 2nd, 3rd and 4th phases were communicated via the Final and 1st/2nd/3rd Supplement CPCN's of Nov5, Dec16, 2003 and Feb20 and June18, 2004 resp.. Through this 4th Supplement to the Final CPCN the conversion of the 5th phase products to Pb-free is communicated: Products in TSSOP14 with NiPdAu assembled at subcontractor NSEB in Thailand and some products in TSSOP8 with Matte Sn assembled at subcontractor ATP (Amkor Philippines).

**Reason for Change:**

Increased environmental friendliness, required by world-wide programs and legislation (RoHS) to remove lead (Pb) from semiconductor package terminals.

**Remarks:**

The Final CPCN is split-up in several phases (1 Final CPCN followed by supplements for each next phase). This 4th Supplement is intended as the 5th "Final CPCN" through which the 5th phase introduction is communicated.

**PROPERTIES OF OLD VS CHANGED PRODUCT:**  
 The form/fit/function properties of the products are not influenced by the change.  
 As the leadtin(SnPb)plating is replaced by NiPdAu preplating or matte Sn, the visual appearance of the leads may change.  
 The mounting of products on PCB are not influenced by this change. Pb-free and Pb-containing product are compatible for SnPb and Pb-free boardmounting processes. For both processes the MSL precautions, as indicated on packing label, must be respected.  
 With Pb-free introduction all mentioned products comply to RoHS.

**DISPOSITION OF OLD PRODUCTS:**  
 Pb-free products delivery starts once Pb-containing products are depleted.

**IDENTIFICATION OF CHANGED PRODUCT:**  
 The Pb-free products can be identified:  
 1. By a Pb-free logo on the label, e.g. on reel and inner packing box.  
 2. If space permits : By marking the symbol "G" on the product.  
 3. By backward traceability through date codes.

**ESTIMATED DATE FOR DELIVERY OF CHANGED PRODUCT:**  
 TSSOP14 from NSEB: DECEMBER 2004.  
 TSSOP8 from ATP: NOVEMBER 2004.

The ZIP file attached at "Attachement" below contains following information:  
 1. Qualification results report of the TSSOP14 from NSEB.  
 2. Product type list 5th phase

Remark: For the Qualification results report for the TSSOP8 from ATP see [http://www.semiconductors.philips.com/acrobat/other/green\\_roadmap/self-qual-results\\_matte-Sn\\_phase-4.pdf](http://www.semiconductors.philips.com/acrobat/other/green_roadmap/self-qual-results_matte-Sn_phase-4.pdf).  
 The above information and more is also available on the leadfree webpage:  
[http://www.semiconductors.com/green\\_roadmap/cpcn/](http://www.semiconductors.com/green_roadmap/cpcn/).



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**Supplemented As Follows:**  
See remarks above.

**Attachment:** Self Qualification results and type list

<b>Approved by:</b>	<b>Name:</b>	<b>Job Title:</b>	<b>Date:</b>
	Eef Bagerman	Sr. Director ATO Innovation	Sep 28 2004
	Jan van de Water	Pb free Program Manager	Sep 28 2004
	Michiel Maas Geesteranus	Assembly Technical Change Coordinator ATO I	Sep 28 2004

An approved electronic or hardcopy version of this Change Notification has been filed by the publishing Business Unit or Business Line/Organization mentioned at the top of this document.



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