



**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> 200305025S8	<b>CPCN Issue Date:</b> Apr 18 2005
<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 Nov 16, 2004: 200305025C Correction	<b>And following Supplements:</b> 200305025S1, ...S2, ...S3, etc. Dec 16, 2003: ...S1    Feb 20, 2004: ...S2    Jun 18, 2004: ...S3 Sep 28, 2004: ...S4    Nov 17, 2004: ...S5    Dec 29, 2004: ...S6 Mar 14, 2005: ...S7

**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 till 8th phases were communicated via the Final and several Supplement CPCN's in 2003/2004/2005. One correction CPCN was issued in 2004. Through this 8th Supplement to the Final CPCN the conversion of the 9th phase products to Pb-free is communicated: Introduction of NiPdAu for TSSOP8/10/30/38 from ATP(Amkor Philippines), this in combination with change to 8290 die-attach and EMEG700 plastic.

It should be noted that in a previous Supplemental CPCN, part of the products on the attached typelist were converted from SnPb plating to Matte Sn as an interim solution. So now both products with SnPb and with Matte Sn will be replaced by NiPdAu.

**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 8th Supplement is intended as the 9th "Final CPCN" through which the 9th 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, 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. At all times 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:**  
From June 2005 onwards.

The ZIP file attached at "Attachement" below contains following information:  
1. The Qualification results report.  
2. Product type list 9th phase.

The above information is also available on the leadfree webpage:  
[http://www.semiconductors.com/green\\_roadmap/](http://www.semiconductors.com/green_roadmap/).

**Supplemented As Follows:**

See under remarks above



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**Attachment:** Phase 9 Qualification report and typelist.

<b>Approved by:</b>	<b>Name:</b>	<b>Job Title:</b>	<b>Date:</b>
	Eef Bagerman	Sr. Director IMO Backend Innovation	Apr 18 2005
	Rob de Heus	Leadfree Program Manager	Apr 18 2005
	Michiel Maas Geesteranus	Technical Change Coordinator IMO BE Innov.	Apr 18 2005

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



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