



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

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

<b>CPCN Number:</b> 200305025S9	<b>CPCN Issue Date:</b> May 04 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    April 18, 2005: ...S8

**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 9th phases were communicated via the Final and several Supplement CPCN's in 2003/2004/2005. One correction CPCN was issued in 2004. Through this 9th Supplement to the Final CPCN the conversion of the 10th phase products to Pb-free is communicated: Introduction of selected product types in leadfree HTSSOP20 (PST), HSOP (PSK), TSSOP8 (ATP), SSOP (PSC). Apart from this phase we inform you that for some products out of phases 3, 4 and 6, new product names and 12NC's for leadfree were created. The phase 3, 4 and 6 typelists (on the internet) will be corrected accordingly.

**Reason for Change:**

Increased environmental friendliness, forced by world-wide programs and legislation to ban out lead (Pb) from semiconductor packages.

**Remarks:**

The Final CPCN is split-up in several phases (1 Final CPCN followed by supplements for each next phase). This 9th Supplement is intended as the 10th "Final CPCN" through which the 10th 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 matte Sn and NiPdAu, 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 mid June 2005 onwards.

The ZIP file attached at "Attachement" below contains following information:

1. The Qualification results reports.
2. Product type list 10th phase.
3. Product type list with product type name / 12NC changes related to some types from phases 3, 4 and 6.

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.

**Attachment:** Qualification results and typelists



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<b>Approved by:</b>	<b>Name:</b>	<b>Job Title:</b>	<b>Date:</b>
	Eef Bagerman	Sr. Director IMO-BE Innovation	May 03 2005
	Rob de Heus	Leadfree Program Manager	May 03 2005
	Michiel Maas Geesteranus	Technical Change Coordinator IMO-BE Innov.	May 03 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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