



**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> 200305025S2	<b>CPCN Issue Date:</b> Feb 20 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 and 2nd phases were communicated via the Final and Supplement CPCN's of Nov 5th and Dec 16th, 2003 resp.).

Through this 2nd Supplement to the Final CPCN the conversion of the third phase products to Pb-free is communicated: Remainder of SO14/16/20 at PST/NSEB (with some exceptions) and TSSOP14/16/20/24 assembled at PST.

**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 will be split-up in 6 phases (1 Final CPCN and 5 supplements), with periods of 6 weeks between each announcement. This 2nd Supplement is intended as the 3rd "Final CPCN" through which the 3rd 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 tin(Sn)plating or 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. 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", "E" or "N" on the product.
3. By backward traceability through date codes.

Estimated Date for Delivery of Changed Product: April 2004.

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

1. Updated Conversion roadmap (incl. the plan how to communicate via Final CPCN and CPCN supplements)
2. Qualification results third phase
3. Product type list third phase
4. Updated Qualification plan next phases.

All above information is also available on the leadfree webpage:

[http://www.semiconductors.com/green\\_roadmap/cpcn/](http://www.semiconductors.com/green_roadmap/cpcn/).

**Supplemented As Follows:**

See remarks above.



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**Attachment:** Files attached as described above

<b>Approved by:</b>	<b>Name:</b>	<b>Job Title:</b>	<b>Date:</b>
	Eef Bagerman	Director ATO Innovation	Feb 20 2004
	Jan van de Water	Pb-free Program Manager	Feb 20 2004
	Michiel Maas Geesteranus	Assembly Technical Change Coordinator ATO I	Feb 20 2004

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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