



Correction
CUSTOMER PRODUCT-/ PROCESS CHANGE NOTIFICATION

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

CPCN Number: 200305025C1	CPCN Issue Date: Jun 02 2005
Author: Maas Geesteranus, Michiel in Nijmegen	Issued by: Maas Geesteranus, Michiel in Nijmegen
Previous Notifications: May 28, 2003: 200305025 Advance Nov 05, 2003: 200305025F Final Nov 16, 2004: 200305025C Correction	And following Supplements: 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 March 14, 2005: ...S7 April 18, 2005: ...S8 May 4, 2005: ...S9

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 2nd Correction to the Final CPCN the changed TSSOP56 conversion to leadfree is communicated:

The original plan was to release the TSSOP56 (SOT364-1 at PST and PSC) in NiPdAu + MP8000/8390P BOM. However this has repeatedly showed MSL4 which is unacceptable. Due to this Philips was not able to convert TSSOP56 to leadfree. Philips has selected Nitto GE-7470 plastic and Hysol QMI519 die-attach as material-set to restore the MSL. This material-set complies to the so-called "dark-green" (halogene- and antimoni-oxide free) definition.

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) and on occasion, correction CPCN's are issued in case required.

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 August 2005 onwards.

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

1. The Qualification plan & results reports.
2. Product type list of this correction.

The above information is also available on the leadfree webpage:

http://www.semiconductors.com/green_roadmap/.

Correction To:

See text under "Change Description"



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Attachment: Self Qualification Report/Plan & Product Type List

Approved by:	Name:	Job Title:	Date:
	Eef Bagerman	Sr. Director IMO-BE Innovation	Jun 02 2005
	Rob de Heus	Leadfree Program Manager IMO-BE Innov.	Jun 02 2005
	Michiel Maas Geesteranus	Technical Change Coordinator IMO-BE Innov.	Jun 02 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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