



Final
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CUSTOMER PRODUCT-/ PROCESS CHANGE NOTIFICATION

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

CPCN Number: 200305025F	CPCN Issue Date: Nov 05 2003
Author: Maas Geesteranus, Michiel in Nijmegen	Issued by: Maas Geesteranus, Michiel in Nijmegen
Previous Notifications: May 28, 2003: 200305025 Advance	

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, starting from December 2003 onwards.
 Through this Final CPCN the conversion of the first phase products to NiPdAu is communicated: [SO14](#), [16](#) and [20](#) with small diepads assembled at PST and only for products from General Purpose Logic, Specialty Logic and Digital Datacom. In addition some TDA80xx products in [SO28](#) assembled at PST are included.
 For this and next phases (that are communicated via CPCN supplements) see item 1 under "Remarks" below.

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

Properties of Old vs. Changed Product: **Data Sheet Revision:**No
 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. Products of this phase 1 are proven to remain MSL1 at 260 degr.C.
 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. (see item 6 under "Remarks" below)
 3. By backward traceability through date codes.

Estimated Date for Delivery of Changed Product: Dec 20 2003

Remarks:
 The final CPCN will be split-up in 6 phases, with periods of 6 weeks between each announcement. Sequence and time of announcement is indicated.
 The ZIP file attached at "Self Qualification Report Attachment" below contains following information:
 1. Updated Conversion roadmap (incl. a note about communication via Final CPCN and CPCN supplements)
 2. General statements document
 3. Qualification results first phase
 4. Product type list first phase
 5. Updated Qualification plan next phases.
 6. Updated information for Pb-free identification.
 All above information is also available on the leadfree webpage:



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

Self Qualification Report Attachment: Attached

Approved by:	Name:	Job Title:	Date:
	Eef Bagerman	Director ATO Innovation	Nov 05 2003
	Jan van de Water	Pb-free Program Manager	Nov 05 2003
	Michiel Maas Geesteranus	Assembly Technical Change Coordinator ATO I	Nov 05 2003

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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