

## Product Change Notification

<b>PCN No:</b> PCN_CC2400_002	<b>Chipcon Product Name:</b> CC2400	
<b>Data sheet reference:</b>  <b>No data sheet parameters are affected. Notice separate solder profile for lead free soldering.</b>	<b>Customer reference:</b> NA	<b>Date:</b> 2005-01-21
<b>Description of change:</b>  The affected Chipcon device will change from SnPb (tin/lead) plating to matte-tin (Sn) plating on the device leads. The base lead frame material (copper) is not changing, only the final plating material. The device has been qualified to meet the Pb-free soldering temperatures required by Pb-free solder reflow processes and can use Pb-free soldering paste such as Sn/Ag/Cu. Ref. data sheet for each individual product. This new matte tin finish is also backward compatible with existing SnPb soldering and can use standard SnPb soldering paste.  During a transition period customers may receive parts with either SnPb or Sn-only plating, due to existing inventory of SnPb-plated product.		
<b>Reason for change:</b>  New regulations being imposed in Europe (RoHS) and some Asian countries necessitate the elimination of lead (Pb) in electronics manufacturing processes. The conversion from SnPb finish to matte-tin plating on the device leads is being implemented to meet these new requirements. The electronic component industry worldwide is affected and will begin using Pb-free plating compound soon. Many manufacturers will use matte-tin plating similar to that chosen by Chipcon. Matte tin was chosen above other plating materials due to its backward- and forward-compatibility with both SnPb and Pb-free solder reflow processes and its similar cost structure to SnPb plating.		
<b>Consequence of change:</b>  No change in electrical performance. I.e. same data sheet parameters as before. For "lead free" parts the soldering profile needs to be changed in order to meet the requirements for lead free soldering. The soldering profile is in accordance with JEDEC J-STD-020B. For more information, please consult datasheet rev. 1.3.		
<b>Verification:</b>  First Article Inspection has been performed by Chipcon to verify that the electrical performance is in accordance with the product data sheet. The RoHS compatible packages are qualified by Chipcon's subcontractors.		
<b>Change active from (date):</b> Transition estimated during Q1/Q2-2005	<b>Change active from (date code &amp; lot code):</b> To be published on Chipcon's home page	
<b>Last time order (date):</b> NA	<b>Last shipment date:</b> NA	
<b>Approval / Date :</b> ARK / 2004-11-30	<b>Signature :</b> Arne Kjensmo, VP Operations	

## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

TI assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using TI components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

<b>Products</b>		<b>Applications</b>	
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>	Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>	Automotive	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Broadband	<a href="http://www.ti.com/broadband">www.ti.com/broadband</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Digital Control	<a href="http://www.ti.com/digitalcontrol">www.ti.com/digitalcontrol</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Military	<a href="http://www.ti.com/military">www.ti.com/military</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Optical Networking	<a href="http://www.ti.com/opticalnetwork">www.ti.com/opticalnetwork</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
		Telephony	<a href="http://www.ti.com/telephony">www.ti.com/telephony</a>
		Video & Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
		Wireless	<a href="http://www.ti.com/wireless">www.ti.com/wireless</a>

Mailing Address: Texas Instruments  
Post Office Box 655303 Dallas, Texas 75265

Copyright © 2006, Texas Instruments Incorporated