



CUSTOMER ADVISORY

ADV0908

PRODUCT SHELF LIFE EXTENSION TO 36 MONTHS

Change Description

This is an update to ADV0908; please see the revision history table for information specific to this update.

Altera will be extending the maximum storage shelf life for all products from 18 months to 36 months. Shelf-life information is contained on the Moisture Barrier Bag label, see Appendix I.

Recommended Action

No customer action is recommended. There is no change in the packing method. The current amount of desiccant used has been validated to meet the 36 months shelf life per JEDEC J-STD-033B.1. This change does not affect the form, fit or function of Altera devices.

Reason for Change

The 36 month shelf life allows for a more environmentally friendly solution by reducing the occurrence of unnecessary repacking of devices and, consequently, consumes fewer materials.

Products Affected

This change will be implemented for all Altera products.

Product Traceability and Transition Dates

This change will be implemented in October 2009. Lots shipped from Altera beginning October or later will carry a shelf life of 36 months as indicated in the Moisture Barrier Bag label (See Figure 1 in Appendix 1).

Contact

For more information, please contact Altera Customer Quality Engineering at customer-quality@altera.com.

Customer Notifications Subscription


If you would like to receive customer notifications by e-mail, please subscribe to our customer notification mailing list at <https://www.altera.com/subscriptions/email/signup/eml-index.jsp>

Revision History

Date	Rev	Description
09/17/2009	1.0.0	Initial Release
12/14/2009	1.0.1	Update Traceability and Transition Date section

Appendix I: Example of the Moisture Barrier Bag label.

Figure 1. Shelf life label changed from 18 to 36 months




CAUTION
This bag contains
MOISTURE SENSITIVE DEVICES

LEVEL
3

1. Shelf life in sealed bag: 36 months at < 40°C and < 90% relative humidity (RH)
2. After bag is opened, devices that will be subjected to vapor-phase reflow, or equivalent processing (peak package body temperature of 123 °C) must be :
 - a) Mounted within: **168 hours** at factory conditions of < 30°C / 60% RH, or b) Stored at < 10% RH
3. Devices require baking before mounting it :
 - a) Humidity indicator card show humidity > 10% when measured at 23 + 5°C, or b) Condition 2a or 2b is not met.
4. If baking is required, devices may be baked for :
 - a) **12 hours** at 125°C +/- 5°C for high temp. device containers.
 - b) Baking at 40°C +5°C/- 0°C and < 5% RH for low temperature device containers is **NOT RECOMMENDED**

Bag Seal Date (MM – DD – YY) : 1234567890

Note : LEVEL defined by IPC/JEDEC J – STD – 020



2nd Level Interconnect

1. RoHS Compliant – Category: **A2**
2. Maximum safe rework temperature: **123 °C**

For Rework: mount within **8 hours** at factory conditions of < 30°C / 60%RH

<p>ALTERA</p> <p>PART # : 12345678901234567890</p> <p>LOT # : 12345678901</p> <p>FAC # : 1234567890</p> <p>D/C : 1234567890 12</p>	<p>ORIGIN : 123456789012</p> <p>TRACE CODE: 123456789</p> <p>QTY : 12345</p> <p>PK : 12</p>
---	---

081309 9:40

Copyright © 2009 Altera Corporation. All rights reserved. Altera, The Programmable Solutions Company, the stylized Altera logo, specific device designations, and all other words and logos that are identified as trademarks and/ or service marks are, unless noted otherwise, the trademarks and service marks of Altera Corporation in the U.S. and other countries. All other product or service names are the property of their respective holders. Altera products are protected under numerous U.S. and foreign patents and pending applications, maskwork rights, and copyrights. Altera warrants performance of its semiconductor products to current specifications in accordance with Altera's standard warranty, but reserves the right to make changes to any products and services at any time without notice. Altera assumes no responsibility or liability arising out of the application or use of any information, product, or service described herein except as expressly agreed to in writing by Altera Corporation. Altera customers are advised to obtain the latest version of device specifications before relying on any published information and before placing orders for products or services.