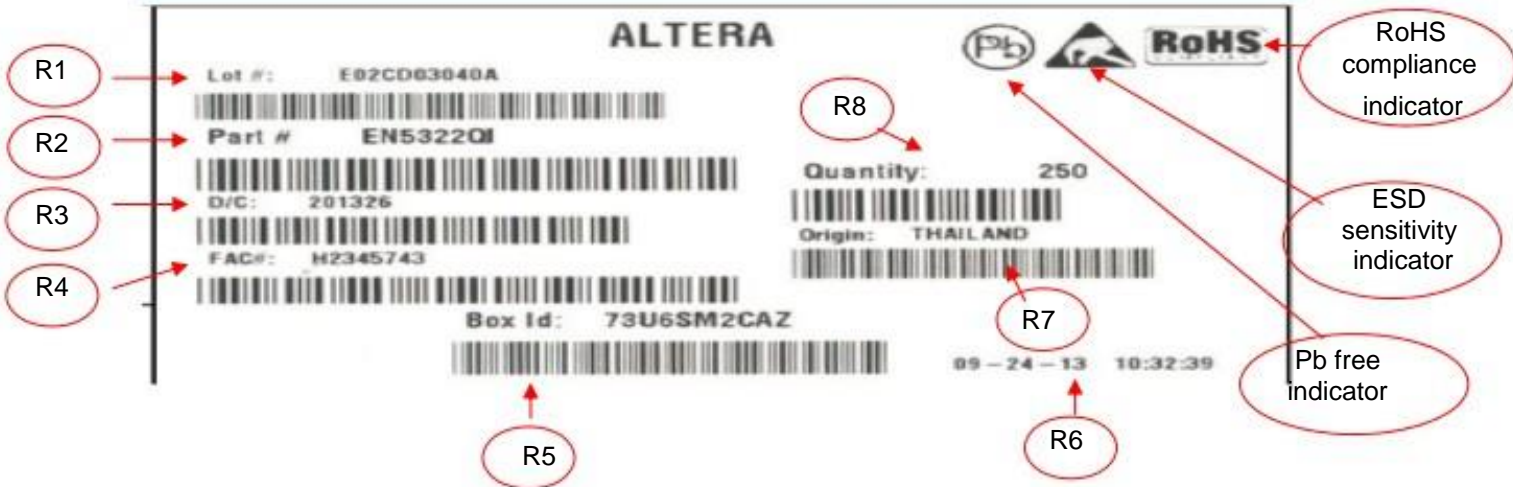


Altera Enpirion Packing and Labeling Specification



Typical Reel Label Data Content Description



- R1 - Assembly Lot Number(s)
- R2 - Part/Device Number
- R3 - Assembly Date Code
- R4 - Factory Lot Number (s)/ NA
- R5 - Unique Box ID
- R6 - Date and Time Label printed
- R7 - Country of Origin
- R8 - Quantity

Labels are placed on the reels, the outside of the Moisture Barrier Bags, and on the unit boxes.

Altera regulates the material content of its Enpirion products based on regulations that include:

European Union Directive 2002/95/EC - Reduction of Hazardous Substances (RoHS)

European Union Directive 2002/96/EC - Waste Electrical and Electronic Equipment (WEEE)

European Union Directive 2006/122/EC - PerFluoro-Octane Sulfonate Prohibited (PFOS) IEC 61249-2-21 Halogen Free Specifications

EU Registration, Evaluation, Authorization of Chemicals (REACH) Directive on the restriction of use of Substances of Very High Concern (SVHC) in Electronics Components

## Moisture Barrier Bag (MBB) Packing


MBB Packing includes

Humidity Indicator Card (HIC)


Silica gel desiccant pack



**COBALT DICHLORIDE FREE**  
Complies with IPC/JEDEC J-STD-033  
and all REACH regulations

**LEVEL 2 PARTS** 60%   
Bake parts if 60% is NOT blue

**LEVEL 2A-5A PARTS** 10% 

Bake parts if 10% is NOT blue and 5% is pink 5% 

Batch #: 0000104133  
WWW.S-CPP.COM  
SÜD-CHEMIE INC.

Initial Use: Do not put this card into a bag if 60% is pink

The completed taped and reeled product, Humidity Indicator Card and Silica gel desiccant is placed into the Moisture Barrier Bag and vacuum sealed.

**MBB Labeling**

Front view of MBB



Rear view of MBB



Moisture Sensitive Label is placed on the flat surface of the MBB packing



Moisture Barrier Bag is then placed into a unit/pizza box with label facing upwards.

## Unit/Pizza Box Packing Method

Bubble pack is placed to prevent product movement and damage during handling and shipping



Unit/Pizza Box Dimensions :

55mm (h) X 211mm (w) X 196mm (d) ; 7 inch unit/pizza box  
55mm (h) X 350mm (w) X 196mm (d) ; 13 inch unit/pizza box



Label is to be placed on left side of the front edge of the unit/pizza box

## Date Codes

Date Code policies are based on JEDEC Standards and are summarized below:

Date Codes of devices shipped are typically targeted to be less than 24 months old

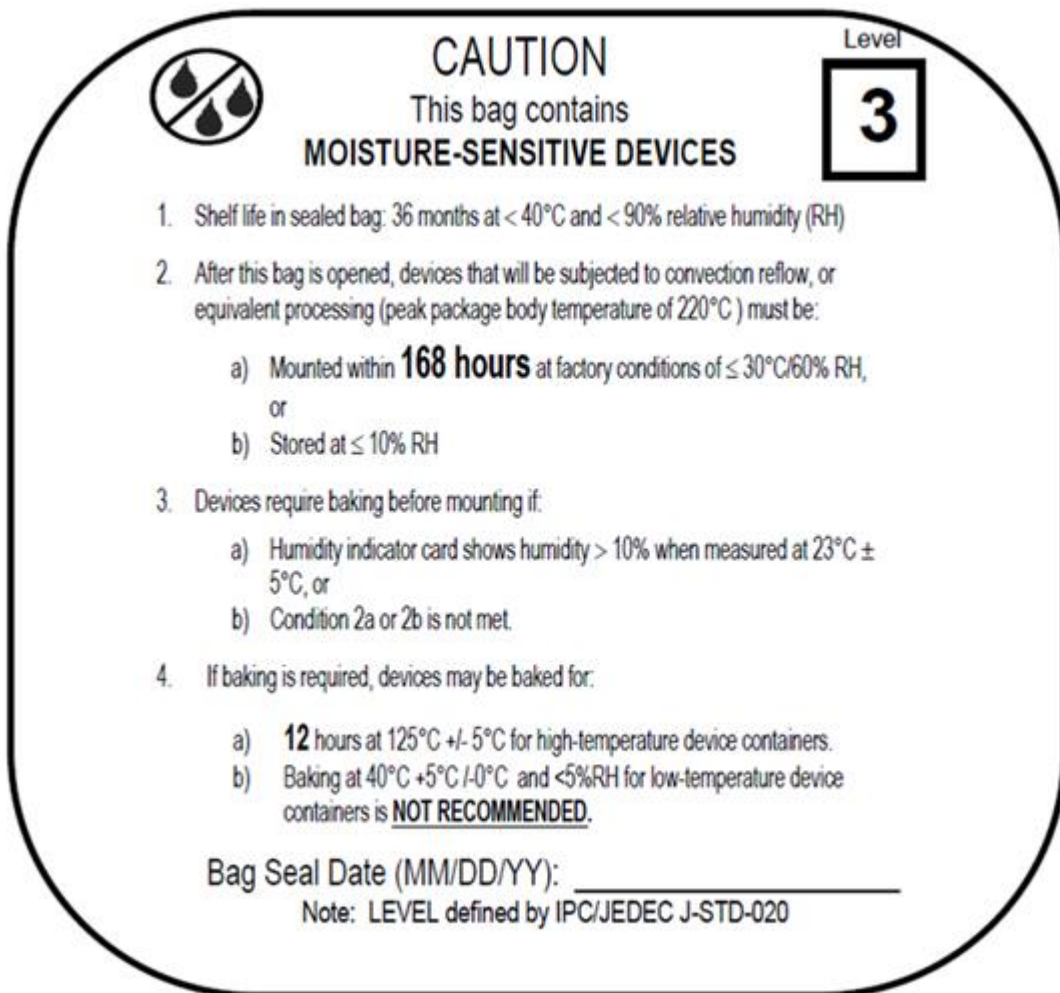
No more than two date code lots can be merged in one reel

Date codes in a mixed reel must be combined consecutively (not inter-mixed).

**Moisture Sensitivity Level 3 (MSL 3) Handling Guidelines**

All Altera Enpirion® products are MSL 3 rated. When any parts are removed from the vacuum sealed bags or stored as “loose units” or “cut tapes”, the parts are required to be baked per JEDEC standards prior to assembly. Failure to adhere to MSL 3 Baking Requirements will result in possible failures at customers.

Moisture Caution Label – MSL 3:



**References**

Customers may refer to following IPC/JEDEC standards for more details:

- J-STD-033 Standard for Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices
- J-STD-020 Moisture/Reflow Sensitivity Classification for Non-hermetic Solid State Surface Mount Devices



## Contact Information

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