



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

## PRODUCT INFORMATION NOTIFICATION

**PIN:** PIN195102

**Date:** December 17, 2019

**Subject:** Manufacturing Label and Packing Configuration Standardization

**To:** PCN ALERTS  
MOUSER  
pcn@mouser.com

**Change Type:** Minor

### **Description of Change:**

This notification is to inform customers that Cypress will be standardizing its manufacturing labels and tray/tube packing configuration. It may be recalled that the Cypress entity consolidation (following the merger with Spansion Corp) was announced via Product Information Notification PIN174801 in November 2017. As the next phase of the entity consolidation process, Cypress will be adapting a new manufacturing label format for all products and revising shipping configurations for select product shipped in trays and tubes.

Cypress will eliminate the practice of shipping in "CY-PAK™" quantities for select products. All products will be shipped with a single moisture barrier bag in a box, and full box quantities will be standardized to 10 trays and for tubes, 15 and 50 depending on the package code. This process will be implemented with new incoming finished goods; therefore, customers should expect to receive products in CY-PAK™ quantities until existing finished goods inventory is fully depleted.





These changes will be implemented immediately at all Cypress in-house and qualified subcontractor locations. Please be advised that starting January 20, 2019, Cypress will start shipping sales orders with new tray/tube configuration and label formats; and in parallel sales orders with existing inventory will be shipped (as is) using the current tray/tube configuration and label formats.

The transition period where customers should expect to receive either current or new shipping configurations is expected to end in Q3'2020.















## LABEL FORMAT CHANGE

In the new format, Cypress will be using a 14-character code, called License Plate Number (LPN) to establish traceability at bag and box level.

- Tape and Reel Manufacturing Label Format

CURRENT FORMAT	NEW FORMAT
<div data-bbox="196 579 761 951" style="border: 1px solid black; padding: 5px;"> <p>DEVICE CY8C21123-24SXIT <span style="float: right;">MFG LOC</span></p> <p> <span style="float: right;">R</span></p> <hr/> <p>LOT NO 121105594 <span style="float: right;">DATE 17-aug-2011</span></p> <p> <span style="float: right;">TIME</span></p> <hr/> <p>INITIAL ivi <span style="margin-left: 20px;">PKGCODE SZB</span> <span style="float: right;">DATECODE 1031</span></p> <hr/> <p>NO OF REELS 1/1 <span style="margin-left: 40px;">QTY 2500</span> <span style="float: right;">SHELF LOC</span></p> </div>	<div data-bbox="805 583 1393 945" style="border: 1px solid black; padding: 5px;"> <p>(P) OPN: CY62158EV3OLL-45BVXIT</p> <p></p> <p>(1P) MFR# CY62158EV3OLL-45BVXIT</p> <p></p> <p>(1T) BATCH# <span style="float: right;"></span></p> <p>611639061</p> <p>Mark Date Code <span style="float: right;">(7Q) QTY: 02000PC</span></p> <p>(9D) M/C: 1643 <span style="float: right;"></span></p> <p></p>   <p>(Q) TTL QTY: 2000 <span style="margin-left: 20px;"></span> <span style="float: right;">LOT# 611639061 </span></p> </div>






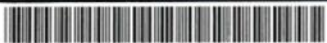




- Moisture Sensitivity Level (MSL 3) and Manufacturing Labels to 2-in-1 Label.

CURRENT FORMAT	NEW FORMAT																													
<p style="text-align: center;"><b>MSL Label</b></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px;">  <p style="text-align: center;"><b>CAUTION</b></p> <div style="float: right; border: 1px solid black; padding: 2px;"><b>Level-3</b></div> <p>Device _____ Bag seal date _____ Optr _____</p> <p>Lot No. _____ Date code _____</p> <p>Qty. _____</p> <div style="text-align: right;">   <p>RoHS COMPLIANT</p> </div> <p style="text-align: center; font-size: small;">THIS BAG CONTAINS 'MOISTURE SENSITIVE DEVICES'. DO NOT OPEN EXCEPT UNDER CONTROLLED CONDITIONS</p> <ol style="list-style-type: none"> <li>Shelf life in sealed bag: 12 months at -40°C and &lt;90% relative humidity (RH) from bag seal date.</li> <li>Peak package body temperature:           <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">220°C + 5°C / - 0°C</td> <td style="width: 20%;">[ ]</td> </tr> <tr> <td>235°C + 5°C / - 0°C</td> <td>[ ]</td> </tr> <tr> <td>245°C + 5°C / - 0°C</td> <td>[ ]</td> </tr> <tr> <td>260°C + 0°C / - 5°C</td> <td>[ ]</td> </tr> </table> </li> <li>Plating/Ball Material: SnPb [ ] Pure Sn [ ] NiPdAu [ ] NiPdAuAg [ ] SnAgCu [ ] Misc [ ]           <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">(n/a)</td> <td style="width: 20%;">(e3)</td> <td style="width: 20%;">(e4)</td> <td style="width: 20%;">(e4)</td> <td style="width: 20%;">(e1)</td> </tr> </table> </li> <li>After bag is opened, devices that will be subjected to reflow solder or other high temperature process must be:           <ol style="list-style-type: none"> <li>Mounted within 168 hours if exposed to conditions of equal or less than 30°C/60% RH</li> <li>Stored at equal or less than 10% RH.</li> </ol> </li> <li>Devices require baking, before mounting, if any of the following conditions apply:           <ol style="list-style-type: none"> <li>Humidity Indicator card is equal or greater than 10% when read at 23°C +/- 5°C or</li> <li>Not mounted on board in 168 hours in equal or less 30°C / 60% RH or</li> <li>Not stored in equal or less than 10% RH as required in para 2b.</li> </ol> </li> <li>If baking required, devices may be baked for 24 hours at 125°C +/- 5°C            Note: Only Metal tubes or bakeable trays greater than 125°C mark on tray must be used for baking.            Note: Level and body temperature defined by IPC/JEDEC J-STD-020         </li> </ol> <p style="font-size: x-small;">For Internal Use Only</p> <ol style="list-style-type: none"> <li>Total manufacturing exposure time between dry bake and vacuum sealing of parts:            HOURS _____ MINUTES _____</li> <li>Record time opened and sealed for each occurrence after bag is sealed.</li> </ol> <table style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Date/Time</th> <th>Date/Time</th> <th>New Accumulative MET</th> </tr> </thead> <tbody> <tr> <td>Bag Opened: / / Sealed: / /</td> <td>Hours _____ Min. _____</td> <td></td> </tr> <tr> <td>Bag Opened: / / Sealed: / /</td> <td>Hours _____ Min. _____</td> <td></td> </tr> <tr> <td>Bag Opened: / / Sealed: / /</td> <td>Hours _____ Min. _____</td> <td></td> </tr> </tbody> </table> </div>	220°C + 5°C / - 0°C	[ ]	235°C + 5°C / - 0°C	[ ]	245°C + 5°C / - 0°C	[ ]	260°C + 0°C / - 5°C	[ ]	(n/a)	(e3)	(e4)	(e4)	(e1)	Date/Time	Date/Time	New Accumulative MET	Bag Opened: / / Sealed: / /	Hours _____ Min. _____		Bag Opened: / / Sealed: / /	Hours _____ Min. _____		Bag Opened: / / Sealed: / /	Hours _____ Min. _____		<p style="text-align: center;"><b>2-in-1 Label (MSL Level 3)</b></p> <div style="border: 1px solid black; padding: 10px;"> <p>(P) OPN: CY8C4045LQI-S411T          (1P) MFR# CY8C4045LQI-S411T          (1T) BATCH#  <b>611904239</b>        SEAL DC: 1901        Mark Date Code        (9D) M/C:1901   <span style="float: right;">(7Q) QTY:02500PC  </span> </p> <p style="text-align: center;">(Q) TTL QTY: 02500          LOT# 611904239 BAG ID: 0001 QTY: 2500        (Z) BAG ID: </p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">   <p>RoHS 2Li Category = e4</p> </div> <div style="text-align: center;"> <p><b>CAUTION</b></p> <p>This Bag Contains MOISTURE SENSITIVE DEVICES</p> </div> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; font-size: x-small;"> <tr> <td style="padding: 2px;">JEDEC LEVEL</td> <td style="padding: 2px;">3</td> </tr> <tr> <td style="padding: 2px;">JEITA RANK</td> <td style="padding: 2px;">-</td> </tr> </table> </div> </div> <ol style="list-style-type: none"> <li>Calculated shelf life in sealed bag: Minimum 24 months at &lt;40°C and &lt; 90 % relative humidity (RH)</li> <li>Peak package body temperature: <u>260</u> + 0°C / - 5°C</li> <li>After bag is opened, devices that will be subjected to solder reflow or other high temperature process must:           <ol style="list-style-type: none"> <li>Mounted within <u>168 HOURS</u> of factory conditions                &lt;= 30°C/70 % RH, OR</li> <li>Stored per J-STD-033</li> </ol> </li> <li>Devices require bake, before mounting, if:           <ol style="list-style-type: none"> <li>Humidity Indicator Card is &gt; 10 % for level 2a - 5a devices or &gt; 80 % for level 2 devices when read at 23°C ± 5°C</li> <li>3a or 3b not met</li> </ol> </li> <li>If baking is required, devices may be baked for 24 hours at 125°C ± 5°C. Refer J-STD-033 for shorter time durations, if applicable            Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake reference            Bag Seal Date: <u>13FEB19</u>              (If blank, see adjacent bar code label)            Note: Level and body temperature defined by IPC/JEDEC J-STD-020 for JEDEC and EIAJ-ED 4701/300 for JEITA         </li> </ol> </div>	JEDEC LEVEL	3	JEITA RANK	-
220°C + 5°C / - 0°C	[ ]																													
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<p style="text-align: center;"><b>Manufacturing Label</b></p> <div style="border: 1px solid black; padding: 10px;"> <p>DEVICE CY8C21123-24SXIT <span style="float: right;">MFG LOC R</span></p> <p></p> <p>LOT NO 121105594 <span style="float: right;">DATE 17-aug-2011</span></p> <p> <span style="float: right;">TIME</span></p> <p>INITIAL ivl PKGCODE S28 DATECODE 1031</p> <p>NO OF REELS 1/1 QTY 2500 SHELF LOC</p> </div>																														

- Moisture Sensitivity Level (MSL 1) and Manufacturing Labels to 2-in-1 Label.

CURRENT FORMAT	NEW FORMAT																								
<p style="text-align: center;"><b>MSL Label</b></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px;"> <p style="text-align: center;"><b>NOT MOISTURE SENSITIVE</b> <span style="float: right; border: 1px solid black; padding: 2px;"><b>Level-1</b></span></p> <p>Device _____ Opt# _____</p> <p>Lot No.  Date code _____</p> <p>Qty. </p> <div style="text-align: center;"> </div> <ol style="list-style-type: none"> <li>1. Devices do not require special storage conditions provided they are maintained at conditions equal to or less than 30°C / 85% RH.</li> <li>2. Peak package body temperature for solder reflow.           <table style="margin-left: 20px; border-collapse: collapse;"> <tr><td>220°C + 5°C / - 0°C</td><td>[ ]</td></tr> <tr><td>235°C + 5°C / - 0°C</td><td>[ ]</td></tr> <tr><td>245°C + 5°C / - 0°C</td><td>[ ]</td></tr> <tr><td>260°C + 0°C / - 5°C</td><td>[ ]</td></tr> </table> </li> <li>3. Plating /Ball Material           <table style="margin-left: 20px; border-collapse: collapse;"> <tr><td>SnPb (n/a)</td><td>[ ]</td></tr> <tr><td>Pure Sn (e3)</td><td>[ ]</td></tr> <tr><td>NiPdAu (e4)</td><td>[ ]</td></tr> <tr><td>NiPdAuAg (e4)</td><td>[ ]</td></tr> <tr><td>SnAgCu (e1)</td><td>[ ]</td></tr> <tr><td>Misc</td><td>[ ]</td></tr> </table> </li> </ol> <p style="text-align: center; font-size: small;"><b>Note: Level and body temperature defined by IPC/JEDEC J-STD-020</b></p> </div>	220°C + 5°C / - 0°C	[ ]	235°C + 5°C / - 0°C	[ ]	245°C + 5°C / - 0°C	[ ]	260°C + 0°C / - 5°C	[ ]	SnPb (n/a)	[ ]	Pure Sn (e3)	[ ]	NiPdAu (e4)	[ ]	NiPdAuAg (e4)	[ ]	SnAgCu (e1)	[ ]	Misc	[ ]	<p style="text-align: center;"><b>2-in-1 Label (MSL Level 1)</b></p> <div style="border: 1px solid black; padding: 10px;"> <p>(P) OPN: CP8143BTT          (1P) MFR# CP8143BTT          (1T) BATCH#  <b>121800871</b>         SEAL DC: 1737        Mark Date Code        (9D) M/C:1737         (9D) M/C:1743         (7Q) QTY:01500PC </p> <p>(Q)TTL QTY: 01500         LOT# 121800871 BAG ID: 0001 QTY: 1500        (Z) BAG ID: </p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p><b>CAUTION</b></p> <p style="font-size: x-small;">This Bag Contains            2Li NOT MOISTURE SENSITIVE DEVICES            Category = e4</p> </div> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr><td style="font-size: x-small;">JEDEC LEVEL</td><td style="width: 20px; text-align: center;">1</td></tr> <tr><td style="font-size: x-small;">JEITA RANK</td><td style="width: 20px; text-align: center;">-</td></tr> </table> </div> </div> <ol style="list-style-type: none"> <li>1. These devices do not require special storage conditions provided they are maintained at conditions equal to or less than 30°C / 85%.</li> <li>2. Peak package body temperature: <u>260</u> + 0°C / - 5°C.</li> </ol> <p style="text-align: center; font-size: x-small;"><b>Note: Level and body temperature defined by IPC/JEDEC</b></p> </div>	JEDEC LEVEL	1	JEITA RANK	-
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- Quality Packaging (Q-pack) label (attached on each inner box)

NEW FORMAT		
 RoHS 2Li Category = e4	(1D)  DRYPACK SEALED DATE: 13FEB19	
SPEC# 4000060962		
IDV XXXXX	PKG LQ24A	FULL CNTR QTY 2500
 (1P) MFR# CY8C4045LQI-S411T		
 (P) OPN CY8C4045LQI-S411T		
(1Z) BOX ID  LOT# 611904239		
HU 	001 BOX 001 OF	
HULN 61190423900008 (1T) BATCH# 611904239 		
SEAL DC 1901	TTL QTY (Q) 002500	
ASSEMBLED IN: CU PHILIPPINES		
Mark Date Code		
 (9D) M/C:1901	 (7Q) QTY:02500PC	

**Benefit of Change:**

These manufacturing labels and packing configuration standardization is part of Cypress' continuous improvement program in manufacturing and warehousing areas.

This change enables customers to track and trace product shipments using LPN information on labels can be used in a warehouse environment to track products from the time they enter the warehouse. It is an identification number that is unique to each inner box.

**Part Numbers Affected: 5337**

See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new parts that are introduced after the publication of this PIN will include all changes outlined in this PIN

**Anticipated Impact:**

No impact anticipated. The new manufacturing label formats ensure that all existing information from the current label format is fully available, with some additional fields like the 14-character LPN. The new tray packing configuration allows for optimization and streamlining of warehousing processes.

**Approximate Implementation Date:**

This change will be effective with the date of this notification.

**Response Required:**

This is an information only announcement. No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at [pcn\\_adm@cypress.com](mailto:pcn_adm@cypress.com).

Sincerely,

Cypress PCN Administration