



Kingbright Group
China Factory

Process/Engineering Change Notification Form

Please address your comments, if any, to your sales contact or quality assurance manager at Kingbright.

Notification Number: S201710003	Issue Date: 10/18/2017
Author: Ray Qu	Issued By: SMD Technical Dept

Product Types:	MSL2/2a/3/4 Moisture Barrier Bags
Change Category:	Packaging
Change Description:	Modify the printing on the moisture barrier bags used in all MSL2/2a/3/4 SMD products.
Reason for Change:	MBB appearance redesign.
Anticipated impact of change:	1. MBB Appearance: Refer to following pages for the comparison between before and after the MBB change. 2. MBB Material: No change 3. LED product: No change 4. MSL: No change 5. Package label: No change 6. ROHS: No change (ROHS Compliant)
Disposition of Old Product:	Customer may use products in old MBB packaging as normal.
Identification of Changed Product:	Refer to appearance of MBB
Proposed First Ship Date:	4/1/2018

Approved By: Benson Huang	Title: Sr Quality manager	Date: 10/18/2017
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Notification Number: S201710003

Acknowledgement of Receipt of Notice

Company Name: _____

Name(please print): _____

Title: _____

Signature: _____

Date: _____

MSL 2	Front	Back
<p>Before Y11#</p>	<p>The front view of the MSL 2 bag before Y11# shows the Kingbright logo in blue at the top center. Below the logo, the text "Surface Mount LED" is printed in black. A red rectangular box is drawn on the bag, indicating the location of the caution label. The caution label is located at the bottom left and contains the following text:</p> <p>CAUTION This bag contains LEVEL 2 MOISTURE SENSITIVE DEVICES</p> <ol style="list-style-type: none"> After this bag is opened, device must be: <ol style="list-style-type: none"> Mounted within 1 year at factory conditions of ≤ 30 degree C, 60% RH or Stored per J-STD-033. If above conditions are not met, baking is required before mounting. Baking conditions: 100 hours at 80 ± 2 degree C and $\leq 5\%$ RH. Bag opened by customer on: <ol style="list-style-type: none"> Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedure. Level and body temperature defined by IPC/JEDEC J-STD-020 Date and time opened. 	<p>The back view of the MSL 2 bag before Y11# shows a circular arrangement of various electronic components (resistors, capacitors, diodes) in the center. To the left of the components is a yellow warning triangle with a lightning bolt and the text "ATTENTION: Observe Precautions for Handling MOISTURE SENSITIVE DEVICES". To the right is a green box with the text "RoHS&WEEE COMPLIANT". Below the components, the Kingbright logo is printed in blue.</p>
<p>After Y18#</p>	<p>The front view of the MSL 2 bag after Y18# shows the Kingbright logo in blue at the top center. Below the logo, the text "SURFACE MOUNT LED" is printed in black. A red rectangular box is drawn on the bag, indicating the location of the caution label. The caution label is located at the bottom left and contains the following text:</p> <p>ATTENTION Observe Precautions for Handling LEVEL 2 MOISTURE SENSITIVE DEVICES</p> <ol style="list-style-type: none"> After this bag is opened, device must be: <ol style="list-style-type: none"> Mounted within one year at factory conditions of ≤ 30 degree C, 60% RH or (b) Stored per J-STD-033. If above conditions are not met, baking is required before mounting. Conditions: 100 hours at 80 ± 2 degree C and $\leq 5\%$ RH. Bag opened by customer on: <ol style="list-style-type: none"> Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedure. Level and body temperature defined by IPC/JEDEC J-STD-020 Date and time opened. <p>RoHS</p>	<p>The back view of the MSL 2 bag after Y18# shows a circular arrangement of various electronic components (resistors, capacitors, diodes) in the center. To the left of the components is a yellow warning triangle with a lightning bolt and the text "ATTENTION: Observe Precautions for Handling MOISTURE SENSITIVE DEVICES". To the right is a green box with the text "RoHS&WEEE COMPLIANT". Below the components, the Kingbright logo is printed in blue.</p>

MSL 2A	Front	Back
<p>Before Y6#</p>	<p>Kingbright Surface Mount LED</p> <p>CAUTION This bag contains MOISTURE SENSITIVE DEVICES LEVEL 2a</p> <p>1. After this bag is opened, device must be: (a) Mounted within 4 weeks at factory conditions of <math>-20\text{ degree C}</math>, 60% RH or (b) Stored at ambient at <math>< 20\% \text{ RH}</math>. 2. If above conditions are not met, baking is required before mounting. Baking conditions: 100 hours at <math>60\text{ }^\circ\text{C}</math>, <math>-3\text{ degree C}</math> and <math>< 5\% \text{ RH}</math>. 3. Bag opened by customer only. Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedure. 2. Level and body temperature defined by IPC/JEDEC J-STD-020. Date and time opened:</p>	<p>Kingbright</p>
<p>Back Y17#</p>	<p>Kingbright SURFACE MOUNT LED</p> <p>CAUTION This bag contains MOISTURE SENSITIVE DEVICES LEVEL 2a</p> <p>1. After this bag is opened, device must be: (a) Mounted within 4 weeks at factory conditions of <math>-20\text{ degree C}</math>, 60% RH or (b) Stored at ambient at <math>< 20\% \text{ RH}</math>. 2. If above conditions are not met, baking is required before mounting. Baking conditions: 100 hours at <math>60\text{ }^\circ\text{C}</math>, <math>-3\text{ degree C}</math> and <math>< 5\% \text{ RH}</math>. 3. Bag opened by customer only. Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedure. 2. Level and body temperature defined by IPC/JEDEC J-STD-020. Date and time opened:</p> <p>RoHS</p>	

MSL 3	Front	Back
<p>Before Y12#</p>	 <p>The front view shows a white moisture barrier bag with the Kingbright logo at the top. Below the logo, it says "Surface Mount LED". A red rectangular box is drawn on the bag, indicating a missing label. At the bottom, there is a "CAUTION" label with a "LEVEL 3" icon and a "Moisture Sensitive Devices" warning. The label includes instructions for handling and baking conditions.</p>	 <p>The back view shows the same bag with a circular arrangement of small LED components. In the center, there is a yellow "ATTENTION" label and a green "RoHS&WEEE COMPLIANT" label. The Kingbright logo is printed at the bottom.</p>
<p>After Y16#</p>	 <p>The front view shows the bag with a dark rectangular label in the center where the red box was previously. The "CAUTION" label at the bottom is now more prominent and includes a "LEVEL 3" icon, a "Moisture Sensitive Devices" warning, and a "RoHS" logo.</p>	 <p>The back view shows the bag with the circular arrangement of LED components, but the central labels are missing, leaving only the Kingbright logo at the bottom.</p>

MSL 4	Front	Back
<p>Before Y13#</p>	<p>The front view shows a white moisture barrier bag with the Kingbright logo and 'Surface Mount LED' printed in the center. A rectangular area is outlined in red. At the bottom, there is a 'CAUTION' label with a 'LEVEL 4' indicator and detailed handling instructions for moisture sensitive devices.</p>	<p>The back view shows the reverse side of the bag. It features a circular arrangement of small components, a central yellow and green 'ATTENTION' label with 'ELECTROSTATIC SENSITIVE' text, and the Kingbright logo at the bottom.</p>
<p>After Y19#</p>	<p>The front view shows the updated bag design. The 'CAUTION' label is now smaller and positioned in the bottom left corner. It includes an 'ATTENTION' icon, a 'LEVEL 4' indicator, and a 'RoHS' logo. The text 'SURFACE MOUNT LED' is printed in smaller letters below the Kingbright logo.</p>	<p>The back view shows the updated reverse side of the bag, which is mostly blank with some minor markings and the Kingbright logo at the bottom.</p>