

Title of Change:	Addition of green laser-based marking on CLCC packages assembled in THEZB (formerly Kingpak).
Effective date:	18 Jan 2023
Contact information:	Contact your local onsemi Sales Office or Geethakrishnan.Narasimhan@onsemi.com
Type of notification:	This Product Bulletin is for notification purposes only. onsemi will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	Addition of green laser-based marking for addition of capacity for CLCC packages
Change Sub-Category(s):	Shipping/Packaging/Marking

Sites Affected:




onsemi Sites	External Foundry/Subcon Sites
None	None

Description and Purpose:

In order to expand capacity due to higher demand for CLCC packages of onsemi Intelligent sensing product family, laser marking on CLCC packages assembled at Tong Hsing Electronic at Zhubei (THEZB), Taiwan will be implemented by deploying an additional machine using a green laser. The machine currently used in production uses a UV laser. There is no change in the marking.

The green laser machine uses the same technology as that used in the UV laser machine with the difference being only in the color of the laser. The green laser tool has already been implemented for other package types since November 2022 and has shown no difference in detectability by AOI (Automated Optical Inspection) machines. Data collected on 152 CLCC packaged units at different power conditions of the green laser also showed 100% detectability. In addition, the height and thickness of the marking made by the two lasers are also comparable.

The proposed change has no impact on fit or function and has been verified to have no impact on form at THEZB.
 Below are the change details.

	From	To
Product Marking Equipment	UV Laser Marking (Signgrafs)	UV Laser Marking (Signgrafs) And Green Laser Marking (GMM)
Product Marking Appearance	 UV Laser	And  UV Laser  Green Laser

There are no product material changes as a result of this change.

List of Affected Standard Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

AR0330CM1C00SHAA0-DR1	AR0330CM1C00SHAA0-DP1	AR0330CM1C00SHAA0-DP2
MT9V034C12STM-TP	MT9V034C12STM-DP	MT9V034C12STM-DP1
MT9V034C12STC-DR	MT9V034C12STC-DP	MT9V034C12STC-DP1
MT9V034C12STM-DR1	MT9V034C12STM-DR	