



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

PRODUCT CHANGE NOTIFICATION

PCN: PCN180704

Date: February 18, 2018

Subject: Qualification of Advantek Carrier Tape for 35-Ball WLCSP 3.23X2.10X0.55 mm (FN35A) Package

Change Type: Minor

Description of Change:

Cypress has qualified a new carrier tape for the 35-Ball WLCSP 3.23X2.10X0.55 mm (FN35A) package. The new carrier tape has an improved pocket design with Corner relief features to further enhance the WLCSP die edge protection. In addition, the carrier tape has a larger sealing area which improves the process window for cover tape sealing.

The new carrier tape has the following details:

| Items | Current Carrier Tape | New Carrier Tape | Remarks |
|----------------------------|----------------------|------------------|---|
| Carrier tape Manufacturer | Advantek | Advantek | Same Supplier |
| Material Type | PC Tri Laminate | PC Tri Laminate | Same Material |
| Carrier tape width | 8 +0.3/-0.1 mm | 12 +0.3/-0.1mm | Change to accommodate corner relief. Wider width provides larger sealing area for cover tape sealing. |
| Carrier tape pocket pitch | 4 ± 0.10 mm | 8 ± 0.10 mm | Change to accommodate corner relief |
| Carrier tape pocket length | 2.37 ± 0.05 mm | 2.28 ± 0.05 mm | Tightened to reduce the unit lateral movement |
| Carrier tape pocket width | 3.45 ± 0.05 mm | 3.40 ± 0.05 mm | |
| Carrier tape pocket depth | 0.75 ± 0.10 mm | 0.70 ± 0.05 mm | Tightened to reduce the unit vertical movement |
| Y-Distance of Carrier | 3.50 ± 0.05 mm | 5.50 ± 0.05 mm | Changed relative to the |

| | | | |
|--|-------------------|---------------|---|
| tape Sprocket hole to Pocket center hole | | | tape width. |
| Carrier tape pocket design | Non Corner Relief | Corner Relief | Corner reliefs enhance the die edge protection. |

No changes were made to the following attributes:

- Unit orientation in carrier pocket
- Color of carrier tape
- EIA compliance

Benefit of Change:

This qualification is part of the Cypress continuous improvement quality initiative. Implementation of the new carrier tape will enhance the device die edge protection against chipping.

Affected Part Numbers: 11

Please refer to the attached 'Affected part 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 PCN will include all changes in this PCN.

Qualification Status:

As per Cypress specified list of changes, this change has been qualified through a series of test identified in Qualification Test Plan # 173802. This QTP report can be found attached to this PCN.

Approximate Implementation Date:

This change will be implemented 90 days from the date of this notification. Effective 90 days from the date of this notification, Cypress will transition to shipments with the new carrier tape. During the transition period, the affected part numbers will be supplied with either the existing or the new carrier tape.

Anticipated Impact:

The change involved carrier tape critical dimensions (Tape Width and Pocket Pitch) which will impact the pick and place. Cypress recommends that customers review these changes against their current pick and place programs and equipment parameters.

Method of Identification:

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

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.

Sincerely,

Cypress PCN Administration

Item Marketing Part Number

- 1 CY8C4124FNI-443T
- 2 CY8C4125FNI-483T
- 3 CY8C4146FNI-S443T
- 4 CY8C4244FNI-443T
- 5 CY8C4245FNI-483T
- 6 CYPD1103-35FNXIT
- 7 CYPD1104-35FNXIT
- 8 CYPD1105-35FNXIT
- 9 CYPD1120-35FNXIT
- 10 CYPD1131-35FNXIT
- 11 CP8394ATT