



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> <b>A1603-01</b> <b>DATE:</b> <b>11-Apr-2016</b> <b>Product Affected:</b> 15.0mm x 15.0mm FCBGA-196 24.0mm x 15.5mm FCBGA-345 Refer to Attachment II for the affected part numbers  <b>Date Effective:</b> <b>11-Jul-2016</b>	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code                      Assembly lot marked on the device provides traceability to the material used <input checked="" type="checkbox"/> Other
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<b>Contact:</b> IDT PCN DESK  <b>E-mail:</b> <a href="mailto:pcndesk@idt.com">pcndesk@idt.com</a>	<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Samples:</b> Please contact your local sales representative for sample request & availability.
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**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input checked="" type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>This notification is to advise our customers that the lid adhesive material will be changed from MD140 to Henkel CE-3920.</p> <p>There is no change to the moisture performance.</p> <p>Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**  
Refer to qualification data shown in attachment I.

**CUSTOMER ACKNOWLEDGMENT OF RECEIPT:**

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

**CUSTOMER COMMENTS:** \_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_                      DATE: \_\_\_\_\_



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### ATTACHMENT I - PCN # : A1603-01

**PCN Type:** Change of Materials  
**Data Sheet Change:** None  
No change in moisture sensitivity level (MSL)

#### Detail Of Change:

This notification is to advise our customers that the lid adhesive material will be changed from MD140 to Henkel CE-3920.

There is no change to the moisture performance of these packages.

#### Change of Material Set

Description	From	To
Lid Adhesive Material	MD140	Henkel CE-3920



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### ATTACHMENT I - PCN # : A1603-01

#### Qualification Test Plans and Results :

**Qual Plan & Results:** The qualification was performed in accordance with JEDEC47 recommended tests

**Qual Vehicle:** 15.0mm x 15.0mm FCBGA-196 (1 lot)  
24.0mm x 15.5mm FCBGA-345 (2 lots)

Test Description	Test Method	Test Results (SS / Rej)		
		Lot 1	Lot 2	Lot 3
* HAST - Unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	25/0	25/0	25/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	25/0	25/0	25/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	25/0	25/0	25/0

Note:

\* Test requires moisture pre-conditioning sequence per JESD22-A113 prior to stress test



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### ATTACHMENT II - PCN # : A1603-01

#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
89HT0816APZCBLG	89HT0816APZCBLGI	89HT0832PZCBLG	89HT0832PZCBLGI
89HT0816APZCBLG8	89HT0816APZCBLGI8	89HT0832PZCBLG8	89HT0832PZCBLGI8