



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A0702-01</b>	DATE: <b>22-Mar-2007</b>	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: 24.5mm x 19.5mm FCBGA-655 Refer to attachment II for the affected part numbers.		<input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input checked="" type="checkbox"/> Other
Date Effective: <b>22-Jun-2007</b>		Assembly lot marked on the device provides traceability to the mold compound type

Contact: Geoffrey Cortes	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Title: Product Quality	
Phone #: (408) 284-8321	
Fax #: (408) 284-1450	Samples: Please contact your local sales representative for sample request & availability.
E-mail: <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a>	

### DESCRIPTION AND PURPOSE OF CHANGE:

- |  |   |
|--|---|
| <input type="checkbox"/> Die Technology<br><input type="checkbox"/> Wafer Fabrication Process<br><input type="checkbox"/> Assembly Process<br><input type="checkbox"/> Equipment<br><input checked="" type="checkbox"/> Material<br><input type="checkbox"/> Testing<br><input type="checkbox"/> Manufacturing Site<br><input type="checkbox"/> Data Sheet<br><input type="checkbox"/> Other | <p>This notification is to advise our customers that IDT is converting underfill material from Sumitomo 4152RA to Namics U8437-2 after successful qualification. There is no change to the moisture performance of these packages.</p> <p>Please see attachment for qualification data and affected part number list.</p> |
|--|---|

### RELIABILITY/QUALIFICATION SUMMARY:

There is no impact with regards to the package performance or reliability.

### 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: \_\_\_\_\_ ☐ *Approval for shipments prior to effective date.*

Name/Date: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_ Phone# /Fax# : \_\_\_\_\_

### CUSTOMER COMMENTS:

### IDT ACKNOWLEDGMENT OF RECEIPT:

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



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### ATTACHMENT I - PCN #: A0702-01

**PCN Type:** Assembly Material Change

**Data Sheet Change:** None

**Detail Of Change:** This notification is to advise our customers that IDT is converting underfill material from Sumitomo 4152RA to Namics U8437-2 after successful qualification.

There is no change in the moisture sensitivity level (MSL).

Please see attachment I for qualification data and attachment II for affected part number list.

Description	Affected Package Types	Material	
		Old	New
Underfill Material	24.5mm x 19.5mm FCBGA-655	Sumitomo 4152RA	Namics U8437-2

**Sample Availability:** Samples are not built ahead of the change and are limited to selective devices. Please contact your local IDT sales representative for sample request and availability.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: A0702-01

**Qualification Plan #:** P06-06-05R1

**Test Vehicle:** 24.5mm x 19.5mm FCBGA-655 (1 lot)

**Qualification Test Plan and Results:**

Test Description	Test Method (Latest specs in effect)	Number of Lot	Test Results (SS/Rej)
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104	1	45/0
* Unbiased HAST (130°C, 85% RH, 100 hours)	JESD22-A118	1	45/0
High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A103	1	77/0
Moisture Sensitivity Classification, L4	J-STD-020	1	45/0

**Note:** \* Test require moisture pre-conditioning sequence per JESD22-A113.



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### ATTACHMENT II - PCN #: A0702-01

#### Affected Part Number

IDT Part Number	IDT Part Number	IDT Part Number	IDT Part Number
IDTAMB0480A3RH	IDTAMB0480ARH	IDTAMB0481A0RH	IDTAMB0482C1RH
IDTAMB0480A3RJ	IDTAMB0480ARJ	IDTAMB0481A0RJ	IDTAMB0482C1RJ
IDTAMB0480A5RH	IDTAMB0480B1RH	IDTAMB0481A1RJ	
IDTAMB0480A5RJ	IDTAMB0480B1RJ	IDTAMB0482C0RJ	

**Notes:** For T & R (shipping method) "8" is added to the p/n.