



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1402-03 DATE 5-Mar-2014		MEANS OF DISTINGUISHING CHANGED DEVICES: ☐ Product Mark ☐ Back Mark Assembly lot marked on the device ☐ Date Code provides traceability to the material ☒ Other used
Product Affected: 21.0mm x 21.0mm FCBGA-399 27.0mm x 27.0mm FCBGA-675 Refer to Attachment II for the affected part numbers		
Date Effective: 4-Jun-2014		
Contact: IDT PCN DESK	Attachment: ☒ Yes ☐ No	
E-mail: pcndesk@idt.com		Samples: Please contact your local sales representative for sample request & availability.

DESCRIPTION AND PURPOSE OF CHANGE:

- | | |
|--|---|
| ☐ Die Technology | This notification is to advise our customers that the underfill material will be changed from UA03 to UA32. |
| ☐ Wafer Fabrication Process | |
| ☐ Assembly Process | |
| ☐ Equipment | There is no change to the moisture performance. |
| ☒ Material | |
| ☐ Testing | Attachment I details the qualification data for this change and
Attachment II shows the affected list of part numbers. |
| ☐ Manufacturing Site | |
| ☐ Data Sheet | |
| ☐ Other | |

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: _____	☐ 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 # : A1402-03

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 underfill material will be changed from UA03 to UA32.

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

Change of Material Sets

Package	From	To
FCBGA-399 FCBGA-675	Underfill: UA03	UA32



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ATTACHMENT I - PCN # : A1402-03

Qualification Test Plans and Results :

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

Qual Vehicle: 27.0mm x 27.0mm FCBGA-675 (3 lots)

		Test Results (SS / Rej)		
Test Description	Test Method	Lot 1	Lot 2	Lot 3
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	25/0	25/0	25/0
* Temperature Humidity Biased (85 °C/85% RH, 1000 Hrs)	JESD22-A101	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
Solder Ball Shear Test (1000 Hrs)	JESD22-B117	5/0	5/0	5/0
X-ray Examination	IDT Spec MAC-3012	45/0	45/0	45/0

Note:

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



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ATTACHMENT II - PCN # : A1402-03

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
TSI576-10GCLY	TSI578-10GCL	TSI578-10GIL	TSI578A-10GIL
TSI576-10GILY	TSI578-10GCLY	TSI578-10GILY	TSI578A-10GILY