



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 Affected: 21.0mm x 21.0mm FCBGA-399 27.0mm x 27.0mm FCBGA-675 Refer to Attachment II for the affected part numbers		<input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark Assembly lot marked on the device <input type="checkbox"/> Date Code provides traceability to the material <input checked="" type="checkbox"/> Other used
Date Effective: 4-Jun-2014		

Contact: IDT PCN DESK	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E-mail: pcndesk@idt.com	Samples: Please contact your local sales representative for sample request & availability.

DESCRIPTION AND PURPOSE OF CHANGE:

- | | |
|--|---|
| <input type="checkbox"/> Die Technology | This notification is to advise our customers that the underfill material will be changed from UA03 to UA32. |
| <input type="checkbox"/> Wafer Fabrication Process | |
| <input type="checkbox"/> Assembly Process | |
| <input type="checkbox"/> Equipment | There is no change to the moisture performance. |
| <input checked="" type="checkbox"/> Material | |
| <input type="checkbox"/> Testing | Attachment I details the qualification data for this change and |
| <input type="checkbox"/> Manufacturing Site | Attachment II shows the affected list of part numbers. |
| <input type="checkbox"/> Data Sheet | |
| <input type="checkbox"/> 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: _____	<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 # : 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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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 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 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