



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1303-01 DATE: 21-May-2014		MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: 19.0mm x 19.0mm FCBGA-324 23.0mm x 23.0mm FCBGA-484 25.0mm x 25.0mm FCBGA-576 27.0mm x 27.0mm FCBGA-676 35.0mm x 35.0mm FCBGA-1156 Refer to Attachment II for the affected part numbers		☐ Product Mark ☐ Back Mark Assembly lot marked on the device ☐ Date Code provides traceability to the material ☒ Other used
Date Effective: 21-Aug-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 SEU-1 to NAU-27 for the affected packages assembled in Amkor Philippines. |
| ☐ Wafer Fabrication Process | |
| ☐ Assembly Process | There is no change to the moisture performance. |
| ☐ Equipment | |
| ☒ Material | Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers. |
| ☐ Testing | |
| ☐ 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 # : A1303-01

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 underfill material will be changed from SEU-1 to NAU-27 for the list of affected packages assembled in Amkor Philippines.

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

Change of Material Sets at Amkor Philippines

Material	From	To
Underfill	SEU-1	NAU-27



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ATTACHMENT I - PCN # : A1303-01

Qualification Test Plans and Results :

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

Qual Vehicle: 19.0mm x 19.0mm FCBGA-324 (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	30/0	30/0	30/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	30/0	30/0	30/0

Note:

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



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ATTACHMENT II - PCN # : A1303-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
80K5BR200BR	89H32T8G2ZABL	89H33H13G2ZCBL8	89H48H12G2ZABLG
89H22H16G2ZABL	89H32T8G2ZABL8	89H33H13G2ZCBLG	89H48H12G2ZABL8
89H22H16G2ZABLG	89H32T8G2ZABLG	89H33H13G2ZCBLG8	89H48H12G2ZABLG1
89H22H16G2ZABLG1	89H32T8G2ZABL8	89H33H13G2ZCBLG1	89H48H12G2ZABL8
89H22H16G2ZABLI	89H32T8G2ZABLG1	89H33H13G2ZCBLG8	89H48H12G2ZABLI
89H22H16G2ZBBL	89H32T8G2ZABL8	89H33H13G2ZCBLI	89H48H12G2ZABL8
89H22H16G2ZBBLG	89H32T8G2ZABLI	89H33H13G2ZCBLI8	89H48H12G2ZBBL
89H22H16G2ZBBLG1	89H32T8G2ZABL8	89H34H16G2ZABL	89H48H12G2ZBBL8
89H22H16G2ZBBLI	89H32T8G2ZBBL	89H34H16G2ZABLG	89H48H12G2ZBBLG
89H22H16G2ZCBL	89H32T8G2ZBBL8	89H34H16G2ZABLG1	89H48H12G2ZBBL8
89H22H16G2ZCBLG	89H32T8G2ZBBLG	89H34H16G2ZABLI	89H48H12G2ZBBLG1
89H22H16G2ZCBLG1	89H32T8G2ZBBL8	89H34H16G2ZBBL	89H48H12G2ZBBLG8
89H22H16G2ZCBLI	89H32T8G2ZBBLG1	89H34H16G2ZBBLG	89H48H12G2ZBBLI
89H32H8G2ZABL	89H32T8G2ZBBLG8	89H34H16G2ZBBLG1	89H48H12G2ZBBL8
89H32H8G2ZABL8	89H32T8G2ZBBLI	89H34H16G2ZBBLI	89H48H12G2ZCBL
89H32H8G2ZABLG	89H32T8G2ZBBL8	89H34H16G2ZCBL	89H48H12G2ZCBL8
89H32H8G2ZABLG8	89H32T8G2ZCBL	89H34H16G2ZCBLG	89H48H12G2ZCBLG
89H32H8G2ZABLG1	89H32T8G2ZCBL8	89H34H16G2ZCBLG1	89H48H12G2ZCBLG8
89H32H8G2ZABLG8	89H32T8G2ZCBLG	89H34H16G2ZCBLI	89H48H12G2ZCBLG1
89H32H8G2ZABLI	89H32T8G2ZCBL8	89H48H12AG2ZABL	89H48H12G2ZCBLG8
89H32H8G2ZABLI8	89H32T8G2ZCBLG1	89H48H12AG2ZABLG	89H48H12G2ZCBLI
89H32H8G2ZBBL	89H32T8G2ZCBLG8	89H48H12AG2ZABLG1	89H48H12G2ZCBLI8
89H32H8G2ZBBL8	89H32T8G2ZCBLI	89H48H12AG2ZABLI	89H48H12G2ZDBL
89H32H8G2ZBBLG	89H32T8G2ZCBLI8	89H48H12AG2ZBBL	89H48H12G2ZDBL8
89H32H8G2ZBBLG8	89H32T8G2ZDBLG	89H48H12AG2ZBBLG	89H48H12G2ZDBLG
89H32H8G2ZBBLG1	89H32T8G2ZDBLG8	89H48H12AG2ZBBLG1	89H48H12G2ZDBLG8
89H32H8G2ZBBLG8	89H32T8G2ZDBLG1	89H48H12AG2ZBBLI	89H48H12G2ZDBLG1
89H32H8G2ZBBLI	89H32T8G2ZDBLG8	89H48H12AG2ZCBL	89H48H12G2ZDBLG8
89H32H8G2ZBBLI8	89H33H13G2ZABL	89H48H12AG2ZCBLG	89H48H12G2ZDBLI
89H32H8G2ZCBL	89H33H13G2ZABL8	89H48H12AG2ZCBLG1	89H48H12G2ZDBLI8
89H32H8G2ZCBL8	89H33H13G2ZABLG	89H48H12AG2ZCBLI	89H48T12G2ZABL
89H32H8G2ZCBLG	89H33H13G2ZABLG8	89H48H12BG2ZABL	89H48T12G2ZABL8
89H32H8G2ZCBLG8	89H33H13G2ZABLG1	89H48H12BG2ZABLG	89H48T12G2ZABLG
89H32H8G2ZCBLG1	89H33H13G2ZABLG8	89H48H12BG2ZABLG1	89H48T12G2ZABLG8
89H32H8G2ZCBLG8	89H33H13G2ZABLI	89H48H12BG2ZABLI	89H48T12G2ZABLG1
89H32H8G2ZCBLI	89H33H13G2ZABLI8	89H48H12BG2ZBBL	89H48T12G2ZABLG8
89H32H8G2ZCBLI8	89H33H13G2ZBBL	89H48H12BG2ZBBLG	89H48T12G2ZABLI
89H32H8G2ZDBL	89H33H13G2ZBBL8	89H48H12BG2ZBBLG1	89H48T12G2ZABLI8
89H32H8G2ZDBL8	89H33H13G2ZBBLG	89H48H12BG2ZBBLI	89H48T12G2ZBBL
89H32H8G2ZDBLG	89H33H13G2ZBBLG8	89H48H12BG2ZCBL	89H48T12G2ZBBL8
89H32H8G2ZDBLG8	89H33H13G2ZBBLG1	89H48H12BG2ZCBLG	89H48T12G2ZBBLG
89H32H8G2ZDBLG1	89H33H13G2ZBBLG8	89H48H12BG2ZCBLG1	89H48T12G2ZBBLG8
89H32H8G2ZDBLG8	89H33H13G2ZBBLI	89H48H12BG2ZCBLI	89H48T12G2ZBBLG1
89H32H8G2ZDBLI	89H33H13G2ZBBLI8	89H48H12G2ZABL	89H48T12G2ZBBLG8
89H32H8G2ZDBLI8	89H33H13G2ZCBL	89H48H12G2ZABL8	89H48T12G2ZBBLI



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ATTACHMENT II - PCN # : A1303-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
89H48T12G2ZBBLI8	89H64H16G2ZDBL	89HPES24T3G2ZEALG	89HPES4T4G2ZBALGI
89H48T12G2ZCBL	89H64H16G2ZDBLG	89HPES24T3G2ZEALGI	89HPES4T4G2ZBALGI8
89H48T12G2ZCBL8	89H64H16G2ZDBLGI	89HPES24T3G2ZFALG	89HPES4T4G2ZBALI
89H48T12G2ZCBLG	89H64H16G2ZDBLI	89HPES24T3G2ZFALGI	89HPES4T4G2ZBALI8
89H48T12G2ZCBLG8	89HI0524G2PSZAALG	89HPES24T6G2ZAAL	89HPES4T4G2ZCAL
89H48T12G2ZCBLGI	89HI0524G2PSZAALG8	89HPES24T6G2ZAAL8	89HPES4T4G2ZCAL8
89H48T12G2ZCBLGI8	89HI0524G2PSZBALG	89HPES24T6G2ZAALG	89HPES4T4G2ZCALG
89H48T12G2ZCBLI	89HI0524G2PSZBALG8	89HPES24T6G2ZAALG8	89HPES4T4G2ZCALG8
89H48T12G2ZCBLI8	89HI0524G2PSZCALG	89HPES24T6G2ZAALGI	89HPES4T4G2ZCALGI
89H48T12G2ZDBL	89HI0524G2PSZCALG8	89HPES24T6G2ZAALI	89HPES4T4G2ZCALGI8
89H48T12G2ZDBL8	89HPES16T4AG2ALGI	89HPES24T6G2ZAALI8	89HPES4T4G2ZCALI
89H48T12G2ZDBLG	89HPES16T4AG2ALGI8	89HPES24T6G2ZAAR	89HPES4T4G2ZCALI8
89H48T12G2ZDBLG8	89HPES16T4AG2ZAAL	89HPES24T6G2ZAAR8	89HPES6T6G2ZAAL
89H48T12G2ZDBLGI	89HPES16T4AG2ZAAL8	89HPES24T6G2ZBAL	89HPES6T6G2ZAAL8
89H48T12G2ZDBLGI8	89HPES16T4AG2ZAALG	89HPES24T6G2ZBAL8	89HPES6T6G2ZAALG
89H48T12G2ZDBLI	89HPES16T4AG2ZAALI	89HPES24T6G2ZBALG	89HPES6T6G2ZAALG8
89H48T12G2ZDBLI8	89HPES16T4AG2ZBAL	89HPES24T6G2ZBALG8	89HPES6T6G2ZAALGI
89H64H16AG2ZABL	89HPES16T4AG2ZBAL8	89HPES24T6G2ZBALGI	89HPES6T6G2ZAALGI8
89H64H16AG2ZABLG	89HPES16T4AG2ZBALG	89HPES24T6G2ZBALI	89HPES6T6G2ZAALI
89H64H16AG2ZABLGI	89HPES16T4AG2ZBALI	89HPES24T6G2ZBALI8	89HPES6T6G2ZAALI8
89H64H16AG2ZABLI	89HPES16T4AG2ZCAL	89HPES24T6G2ZBAR	89HPES6T6G2ZBAL
89H64H16AG2ZBBL	89HPES16T4AG2ZCAL8	89HPES24T6G2ZBAR8	89HPES6T6G2ZBAL8
89H64H16AG2ZBBLG	89HPES16T4AG2ZCALG	89HPES24T6G2ZCAL	89HPES6T6G2ZBALG
89H64H16AG2ZBBLGI	89HPES16T4AG2ZCALI	89HPES24T6G2ZCAL8	89HPES6T6G2ZBALG8
89H64H16AG2ZBBLI	89HPES24T3G2ZAAL	89HPES24T6G2ZCALG	89HPES6T6G2ZBALGI
89H64H16AG2ZCBL	89HPES24T3G2ZAAL8	89HPES24T6G2ZCALG8	89HPES6T6G2ZBALGI8
89H64H16AG2ZCBLG	89HPES24T3G2ZAALG	89HPES24T6G2ZCALGI	89HPES6T6G2ZBALI
89H64H16AG2ZCBLGI	89HPES24T3G2ZAALG8	89HPES24T6G2ZCALI	89HPES6T6G2ZBALI8
89H64H16AG2ZCBLI	89HPES24T3G2ZAALGI	89HPES24T6G2ZCALI8	89HPES6T6G2ZCAL
89H64H16AG2ZDBL	89HPES24T3G2ZAALI	89HPES24T6G2ZEALG	89HPES6T6G2ZCAL8
89H64H16AG2ZDBLG	89HPES24T3G2ZAALI8	89HPES24T6G2ZEALGI	89HPES6T6G2ZCALG
89H64H16AG2ZDBLGI	89HPES24T3G2ZBAL	89HPES24T6G2ZFALG	89HPES6T6G2ZCALG8
89H64H16AG2ZDBLI	89HPES24T3G2ZBAL8	89HPES24T6G2ZFALGI	89HPES6T6G2ZCALGI
89H64H16G2ZABL	89HPES24T3G2ZBALG	89HPES4T4G2ZAAL	89HPES6T6G2ZCALGI8
89H64H16G2ZABLG	89HPES24T3G2ZBALG8	89HPES4T4G2ZAAL8	89HPES6T6G2ZCALI
89H64H16G2ZABLGI	89HPES24T3G2ZBALGI	89HPES4T4G2ZAALG	89HPES6T6G2ZCALI8
89H64H16G2ZABLI	89HPES24T3G2ZBALI	89HPES4T4G2ZAALG8	
89H64H16G2ZBBL	89HPES24T3G2ZBALI8	89HPES4T4G2ZAALGI	
89H64H16G2ZBBLG	89HPES24T3G2ZCAL	89HPES4T4G2ZAALGI8	
89H64H16G2ZBBLGI	89HPES24T3G2ZCAL8	89HPES4T4G2ZAALI	
89H64H16G2ZBBLI	89HPES24T3G2ZCALG	89HPES4T4G2ZAALI8	
89H64H16G2ZCBL	89HPES24T3G2ZCALG8	89HPES4T4G2ZBAL	
89H64H16G2ZCBLG	89HPES24T3G2ZCALGI	89HPES4T4G2ZBAL8	
89H64H16G2ZCBLGI	89HPES24T3G2ZCALI	89HPES4T4G2ZBALG	
89H64H16G2ZCBLI	89HPES24T3G2ZCALI8	89HPES4T4G2ZBALG8	