



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: F1712-01	DATE: 12-Jan-2018	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: FCBGA-400 (RoHS5) (80HCPS1616CHR , 80HCPS1616CHRI)		☒ Product Mark Change in the top mark and orderable ☐ Back Mark part# ☐ Date Code ☐ Other
Date Effective: 12-Apr-2018		

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 | |
| ☐ Wafer Fabrication Process | This notification is to advise our customers that IDT is converting from RoHS5 to Green package materials to meet industry materials requirements. |
| ☐ Assembly Process | |
| ☐ Equipment | |
| ☒ Material | There is no change to the moisture performance. |
| ☐ Testing | |
| ☐ Manufacturing Site | The current part will be discontinued as of the effective date of this PCN. |
| ☐ Data Sheet | |
| ☐ Other | Attachment I details the qualification results. |

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 # : F1712-01

PCN Type: Material Change from RoHS 5 to Green
Data Sheet Change: None
No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that IDT is converting from RoHS5 to Green package materials to meet industry materials requirements.

The material set details of the current and replacement part is as shown in Table 1.

There is no change to the moisture performance.

Table 1: Assembly Material Sets for The Existing and Replacement Parts

	Current Part (RoHS5)	Replacement Part (Green)
Assembly Location	Amkor Taiwan ASE Taiwan	ASE Taiwan
Die bump	63Sn37Pb	Sn1.8Ag
Solder balls	Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5

Affected Part List

Current Part# (RoHS5)	Replacement Part# (Green)
80HCPS1616CHR	80HCPS1616CHLG
80HCPS1616CHRI	80HCPS1616CHLGI



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ATTACHMENT I - PCN # : F1712-01

Qualification Information and Qualification Data:

Affected Packages: FCBGA-400

Assembly Material: Shown on page 2 of this attachment.

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: FCBGA-784

Test Description	Test Method	Test Results (Rej / SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - Unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Solder Ball Shear Test	JESD22-B117	0/5	0/5	0/5
X Ray	IDT Spec. MAC-3012	0/45	0/45	0/45
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 4, 245 °C	0/25	0/25	0/25

*Note: Tests were subjected to Preconditioning per JESD22-A113 prior to stress test