



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1410-03** Date: October 31, 2014
Product Affected: VFQFPN-64, VFQFPN-72
(Refer to Attachment 2 for affected part#)

Date Effective: January 31, 2015

MEANS OF DISTINGUISHING CHANGED DEVICES:

- | | |
|---|---|
| ☐ Product Mark | Lot# with have: |
| ☒ Back Mark | "R" prefix to denote ASEK Taiwan |
| ☐ Date Code | "MM" prefix to denote Carsem M Malaysia |
| ☐ Other | "MS" prefix to denote Carsem S Malaysia |
| | "U" prefix to denote UTL Thailand |

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
- ☒ Assembly Process
- ☐ Equipment
- ☐ Material
- ☐ Testing
- ☐ Manufacturing Site
- ☐ Data Sheet
- ☐ Other

This notification is to advise our customers that IDT is converting from punch singulation process to sawn singulation process. There is no change in lead termination layout and dimension. As such, existing PCB land pattern design will not be impacted.

There is no change to moisture sensitive level.

Attachment 1 outlines the qualification results.
Attachment 2 shows the affected part numbers.

RELIABILITY/QUALIFICATION SUMMARY:

Qualification has been successfully completed. There is no change in MSL rating.

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 1 - PCN # : A1410-03

PCN Type: Assembly Process Change

Data Sheet Change: N/A

Detail Of Change:

This notification is to advise our customers that IDT is converting from punch singulation process to sawn singulation process. There is no change in lead termination layout and dimension. As such, existing PCB land pattern design will not be impacted.

There is no change to moisture sensitive level.

See Figure 1 for comparisons between punch versus sawn singulated part.

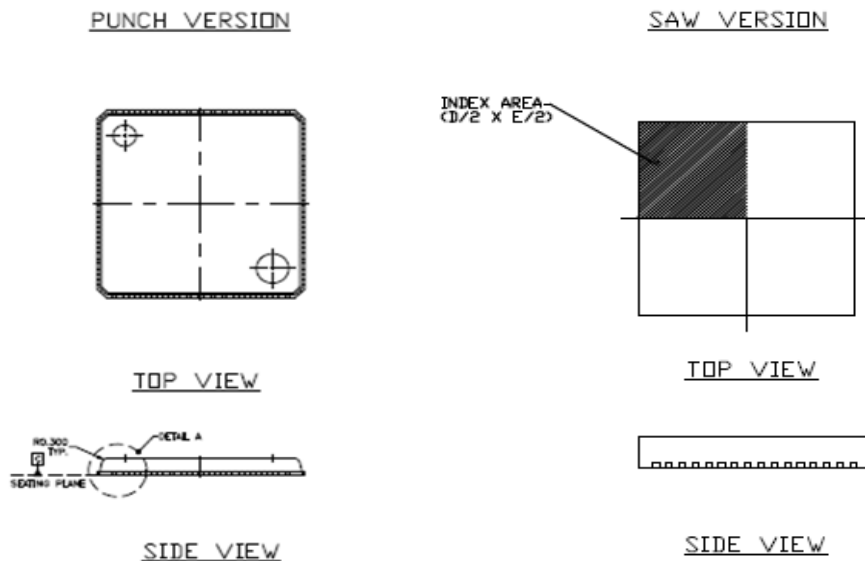


Figure1: Comparisons between Punch versus Sawn



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ATTACHMENT 1 - PCN # : A1410-03

Qualification Information and Qualification Data:

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

Qualification Vehicle: VFQFPN-72

Test Description	Test Method	Test Results (Rej/SS)
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0 / 30
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0 / 30
High Temperature Storage Test (150°C, 1000 hours)	JESD22-A103	0 / 30

*Note: * Test requires moisture pre-conditioning sequence per JESD22-A113*



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ATTACHMENT 2 - PCN # : A1410-03

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
6T49278BNLGI	932SQL435AKLF	9FGL1218AKLF	9LPRS929AKLF
6T49278BNLGI8	932SQL435AKLFT	9FGL1218AKLFT	9LPRS929AKLFT
813N252AKI-46LFT	932SQL436AKLF	9FGL1220AKLF	9LRS3165BKILF
813N252AKI-46LFT	932SQL436AKLFT	9FGL1220AKLFT	9LRS3165BKILFT
82V3395BNLG	954309BKLF	9FGL1222AKLF	9LRS3165BKLF
82V3395BNLG8	954309BKLFT	9FGL1222AKLFT	9LRS3165BKLFT
82V3396NLG	96Z61027BKLF	9LPR311AKLF	9LRS3169BKILF
82V3396NLG8	96Z61027BKLFT	9LPR311AKLFT	9LRS3169BKILFT
82V3397NLG	9DB1904BKLF	9LPR515BKLF	9LRS3169BKLF
82V3397NLG8	9DB1904BKLFT	9LPR515BKLFT	9LRS3169BKLFT
8413S12BKI-100LFT	9DB1933AKLF	9LPRS113AKLF	9LVRS720BKLF
8413S12BKI-100LFT	9DB1933AKLFT	9LPRS113AKLFT	9LVRS720BKLFT
8413S12BKI-126LFT	9EPRS488CKLF	9LPRS140CKLF	9VRS4813BKLF
8413S12BKI-126LFT	9EPRS488CKLFT	9LPRS140CKLFT	9VRS4813BKLFT
8413S12BKILF	9ERS3165BKILF	9LPRS355BKLF	9VRS4818AKLF
8413S12BKILFT	9ERS3165BKILFT	9LPRS355BKLFT	9VRS4818AKLFT
8V19N4612-02NLGI	9ERS3165BKLF	9LPRS356AKLF	9VRS4818BKLF
8V19N4612-02NLGI8	9ERS3165BKLFT	9LPRS356AKLFT	9VRS4818BKLFT
8V41N012NLGI	9EX21501AKILF	9LPRS357AKLF	9VRS4883BKLF
8V41N012NLGI8	9EX21501AKILFT	9LPRS357AKLFT	9VRS4883BKLFT
8V89307BNLG	9EX21501AKLF	9LPRS365BKLF	9ZML1231BKLF
8V89307BNLG8	9EX21501AKLFT	9LPRS365BKLFT	9ZML1231BKLF-IB0
8V89309NLG	9EX21531AKLF	9LPRS397DKLF	9ZML1231BKLFT
8V89309NLG8	9EX21531AKLFT	9LPRS397DKLFT	9ZML1231BKLF-IB0
8V89313NLG	9EX21801AKILF	9LPRS471AKLF	9ZML1232BKLF
8V89313NLG8	9EX21801AKILFT	9LPRS471AKLFT	9ZML1232BKLFT
932S310AKLF	9EX21801AKLF	9LPRS471CKLF	9ZX21201AKLF
932S310AKLFT	9EX21801AKLFT	9LPRS471CKLFT	9ZX21201AKLFT
932S509HKLF	9EX21831AKLF	9LPRS477BKLF	9ZX21201BKLF
932S509HKLFT	9EX21831AKLFT	9LPRS477BKLFT	9ZX21201BKLFT
932S820CKLF	9FG1900BK-1LF	9LPRS477CKLF	9ZX21501BKLF
932S820CKLFT	9FG1900BK-1LFT	9LPRS477CKLFT	9ZX21501BKLFT
932S890CKLF	9FG1901CKLF	9LPRS477DKLF	9ZX21501CKLF
932S890CKLFT	9FG1901CKLFT	9LPRS477DKLFT	9ZX21501CKLFT
932SQ420DKLF	9FG1901HKLF	9LPRS478CKLF	9ZX21502AKLF
932SQ420DKLFT	9FG1901HKLFT	9LPRS478CKLFT	9ZX21502AKLFT
932SQ423AKLF	9FG1903AKLF	9LPRS480BKLF	9ZX21901BKLF
932SQ423AKLFT	9FG1903AKLFT	9LPRS480BKLFT	9ZX21901BKLF-INT
932SQ432AKLF	9FG1903CKLF	9LPRS501PKLF	9ZX21901BKLF-SUN
932SQ432AKLF-IB0	9FG1903CKLFT	9LPRS501PKLFT	9ZX21901BKLFT
932SQ432AKLFT	9FG1904BK-1LF	9LPRS501SKLF	9ZX21901BKLF-INT
932SQ432AKLFT-IB0	9FG1904BK-1LFT	9LPRS501SKLFT	9ZX21901BKLF-SUN
932SQ433AKLF	9FGL1214AKLF	9LPRS918JKLF	9ZX21901CKLF
932SQ433AKLFT	9FGL1214AKLFT	9LPRS918JKLFT	9ZX21901CKLF-INT



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ATTACHMENT 2 - PCN # : A1410-03

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
9ZX21901CKLFT	9ZX21903AKLFT	9ZXL1251AKLF	9ZXL1930BKLFT
9ZX21901CKLFT-INT	9ZXL1231AKLF	9ZXL1251AKLFT	9ZXL1932AKLF
9ZX21902AKLF	9ZXL1231AKLF-INT	9ZXL1530BKLF	9ZXL1932AKLFT
9ZX21902AKLFT	9ZXL1231AKLFT	9ZXL1530BKLFT	
9ZX21903AKLF	9ZXL1231AKLFT-INT	9ZXL1930BKLF	