



PRODUCT AND PROCESS CHANGE NOTIFICATION
Generic Copy

ISSUE DATE: 03-Jan-2013
NOTIFICATION: 15469
TITLE: KINETIS K SERIES 50Mhz 3N86B DIE QUAL
EFFECTIVE DATE: 03-Apr-2013

DEVICE(S)

MPN
MK10DN128VFM5
MK10DN128VFT5
MK10DN128VLH5
MK10DN128VLH5R
MK10DN128VMP5
MK10DN32VFM5
MK10DN32VFT5
MK10DN32VLH5
MK10DN32VMP5
MK10DN64VFM5
MK10DN64VFT5
MK10DN64VLH5
MK10DN64VMP5
MK10DX128VFM5
MK10DX128VFT5
MK10DX128VLH5
MK10DX128VMP5
MK10DX32VFM5
MK10DX32VFT5
MK10DX32VLH5
MK10DX32VMP5
MK10DX64VFM5
MK10DX64VFT5
MK10DX64VLH5
MK10DX64VMP5
MK20DN128VFM5
MK20DN128VFT5

MK20DN128VLH5
MK20DN128VMP5
MK20DN32VFM5
MK20DN32VFT5
MK20DN32VLH5
MK20DN32VMP5
MK20DN64VFM5
MK20DN64VFT5
MK20DN64VLH5
MK20DN64VMP5
MK20DX128VFM5
MK20DX128VFT5
MK20DX128VLH5
MK20DX128VMP5
MK20DX32VFM5
MK20DX32VFT5
MK20DX32VLH5
MK20DX32VMP5
MK20DX64VFM5
MK20DX64VFT5
MK20DX64VLH5
MK20DX64VMP5
PK10DN32VFM5
PK10DX128VFM5
PK10DX128VFT5
PK10DX128VLH5
PK20DN128VLH5
PK20DX128VFM5
PK20DX128VFT5
PK20DX128VLH5

AFFECTED CHANGE CATEGORIES

- MASK SET REV (SAME FAB SITE)

DESCRIPTION OF CHANGE

Freescale Semiconductor is pleased to announce the qualification of 3N86B mask set for Kinetis K Series 50MHz product family.

With the enhancement made on this new mask set, the following errata have been eliminated:

1. Errata # 4949 Reset and Boot: Device may not exit the power on reset (POR) event correctly with fast ramp-up slew rates.
2. Errata # 4473 PMC: 1MHz Flash operation in VLPR mode not supported on date code 1202 and earlier.
3. Errata # 4481 PMC: STOP mode recovery unstable.
4. Errata # 3928 TSI: Delta voltage is 400 mV instead of 600 mV.
5. Errata # 2582 UART: Flow control timing issue can result in loss of characters.

REASON FOR CHANGE

Improve Freescale production manufacturing.

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

No change to form, fit, function or reliability.

Freescale will consider specific conditions of acceptance of this change submitted within 30 days of receipt of this notice on a case by case basis. To request further data or inquire about the notification, please enter a [Service Request](#).

For sample inquiries - please go to www.freescale.com

QUAL DATA AVAILABILITY DATE: 14-Dec-2012

QUALIFICATION STATUS: COMPLETED

QUALIFICATION PLAN:

Please refer to attached qualification report.

RELIABILITY DATA SUMMARY:

Please refer to attached qualification report.

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical characterization was done and meets electrical specifications.

CHANGED PART IDENTIFICATION:

There is no change to the orderable part number. Part marking for mask set information will be changed from 1N86B to 3N86B .

ATTACHMENT(S):

External attachment(s) FOR this notification can be viewed AT:

[15469 Final 3N86B Design Change Customer Qual Results for GPCN Attachment.pdf](#)
