



## PRODUCT BULLETIN

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**ISSUE DATE:** 17-Apr-2014  
**NOTIFICATION:** 16205  
**TITLE:** Data Sheet Updates Specifically for KL14/15/24/25  
**EFFECTIVE DATE:** 18-Apr-2014

### DEVICE(S)

MPN
KKL15Z128CAD4R
MKL14Z32VFM4
MKL14Z32VFT4
MKL14Z32VLH4
MKL14Z32VLK4
MKL14Z64VFM4
MKL14Z64VFM4R
MKL14Z64VFT4
MKL14Z64VLH4
MKL14Z64VLK4
MKL14Z64VLK4R
MKL15Z128CAD4R
MKL15Z128VFM4
MKL15Z128VFT4
MKL15Z128VLH4
MKL15Z128VLH4R
MKL15Z128VLK4
MKL15Z32VFM4
MKL15Z32VFM4R
MKL15Z32VFT4
MKL15Z32VLH4
MKL15Z32VLK4
MKL15Z64VFM4
MKL15Z64VFM4R
MKL15Z64VFT4
MKL15Z64VLH4
MKL15Z64VLK4
MKL24Z32VFM4
MKL24Z32VFT4

MKL24Z32VLH4
MKL24Z32VLK4
MKL24Z64VFM4
MKL24Z64VFT4
MKL24Z64VLH4
MKL24Z64VLK4
MKL25Z128VFM4
MKL25Z128VFT4
MKL25Z128VLH4
MKL25Z128VLK4
MKL25Z32VFM4
MKL25Z32VFT4
MKL25Z32VLH4
MKL25Z32VLK4
MKL25Z64VFM4
MKL25Z64VFT4
MKL25Z64VLH4
MKL25Z64VLK4

## **AFFECTED CHANGE CATEGORIES**

- DATASHEET

## **DESCRIPTION OF CHANGE**

The MKL14ZxxVFM4, MKL14ZxxVFT4, MKL14ZxxVLH4, MKL14ZxxVLK4, MKL15ZxxVFM4, MKL15ZxxVFT4, MKL15ZxxVLH4, MKL15ZxxVLK4, MKL15Z128CAD4R, MKL24ZxxVFM4, MKL24ZxxVFT4, MKL24ZxxVLH4, MKL24ZxxVLK4, MKL25ZxxVFM4, MKL25ZxxVFT4, MKL25ZxxVLH4 and MKL25ZxxVLK4 Data Sheets have been updated to revision 4, with the following changes:

Updated the front page and restructured the chapters  
 Added a note to the ILAT in the ESD handling ratings  
 Updated Voltage and current operating ratings  
 Updated Voltage and current operating requirements  
 Updated footnote to the VOH in the Voltage and current operating behaviors  
 Updated Power mode transition operating behaviors  
 Updated Capacitance attributes  
 Updated footnote in the Device clock specifications  
 Updated tersall in the Flash timing specifications — commands  
 Updated VADIN in the ADC operating conditions  
 Updated Temp sensor slope and voltage and added a note to them in the ADC electrical characteristics  
 Removed TA in the 12-bit DAC operating requirements  
 Added Inter-Integrated Circuit Interface (I2C) timing

The revision history included in the updated document provides a detailed description of the

changes.

The MKL14ZxxVFM4, MKL14ZxxVFT4, MKL14ZxxVLH4, MKL14ZxxVLK4, MKL15ZxxVFM4, MKL15ZxxVFT4, MKL15ZxxVLH4, MKL15ZxxVLK4, MKL15Z128CAD4R, MKL24ZxxVFM4, MKL24ZxxVFT4, MKL24ZxxVLH4, MKL24ZxxVLK4, MKL25ZxxVFM4, MKL25ZxxVFT4, MKL25ZxxVLH4 and MKL25ZxxVLK4

Data Sheets can be found at

[http://cache.freescale.com/files/32bit/doc/data\\_sheet/KL14P80M48SF0.pdf](http://cache.freescale.com/files/32bit/doc/data_sheet/KL14P80M48SF0.pdf)

[http://cache.freescale.com/files/32bit/doc/data\\_sheet/KL15P80M48SF0.pdf](http://cache.freescale.com/files/32bit/doc/data_sheet/KL15P80M48SF0.pdf)

[http://cache.freescale.com/files/32bit/doc/data\\_sheet/KL15P35M48SF0.pdf](http://cache.freescale.com/files/32bit/doc/data_sheet/KL15P35M48SF0.pdf)

[http://cache.freescale.com/files/32bit/doc/data\\_sheet/KL24P80M48SF0.pdf](http://cache.freescale.com/files/32bit/doc/data_sheet/KL24P80M48SF0.pdf)

[http://cache.freescale.com/files/32bit/doc/data\\_sheet/KL25P80M48SF0.pdf](http://cache.freescale.com/files/32bit/doc/data_sheet/KL25P80M48SF0.pdf)

## **REASON FOR CHANGE**

The MKL14ZxxVFM4, MKL14ZxxVFT4, MKL14ZxxVLH4, MKL14ZxxVLK4, MKL15ZxxVFM4, MKL15ZxxVFT4, MKL15ZxxVLH4, MKL15ZxxVLK4, MKL15Z128CAD4R, MKL24ZxxVFM4, MKL24ZxxVFT4, MKL24ZxxVLH4, MKL24ZxxVLK4, MKL25ZxxVFM4, MKL25ZxxVFT4, MKL25ZxxVLH4 and MKL25ZxxVLK4

Data Sheets have been updated to correct errors and provide additional technical clarification on some device features.

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

There is no impact to device form, fit, function or reliability.

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### **NOTE:**

THE CHANGE(S) SPECIFIED IN THIS NOTIFICATION WILL BE IMPLEMENTED ON THE EFFECTIVE DATE LISTED ABOVE. To request further data or inquire about the notification, please enter a [Service Request](#)

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**QUAL DATA AVAILABILITY DATE:** 05-Apr-2014

**QUALIFICATION STATUS:** COMPLETED

**QUALIFICATION PLAN:**

N/A

**RELIABILITY DATA SUMMARY:**

N/A

**ELECTRICAL CHARACTERISTIC SUMMARY:**

N/A

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**CHANGED PART IDENTIFICATION:**

N/A

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**ATTACHMENT(S):**

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

[16205\\_KL14P80M48SF0\\_Rev.4.pdf](#)

[16205\\_KL15P35M48SF0\\_Rev.4.pdf](#)

[16205\\_KL15P80M48SF0\\_Rev.4.pdf](#)

[16205\\_KL25P80M48SF0\\_Rev.4.pdf](#)

[16205\\_KL24P80M48SF0\\_Rev.4.pdf](#)

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