
PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 23-Jun-2015
NOTIFICATION: 16799
TITLE: MPC5200/MCF547X/MCF548X/MPC5200B PBGA Cu Wire Conversion in FSL-KLM-FM
EFFECTIVE DATE: 21-Sep-2015

DEVICE(S)

MPN
MCF5470VR200
MCF5471VR200
MCF5471ZP200
MCF5472VR200
MCF5474VR200
MCF5474VR266
MCF5474ZP200
MCF5474ZP266
MCF5475VR200
MCF5475VR266
MCF5475ZP200
MCF5475ZP266
MCF5480CVR166
MCF5480CZP166
MCF5481CVR166
MCF5482CVR166
MCF5482CZP166
MCF5483CVR166
MCF5484CVR200
MCF5484CZP200
MCF5485CVR200
MCF5485CZP200
MPC5200BV400
MPC5200CVR400
MPC5200CVR400B
MPC5200CVR400BR2
MPC5200VR400

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AFFECTED CHANGE CATEGORIES

- BILL OF MATERIAL CHANGE (SAME ASSEMBLY SITE)

DESCRIPTION OF CHANGE

Freescale Semiconductor announces the addition of Copper Wire as a wirebond material for the following products:

MPC5200 272 PBGA package, MCF547X, MCF548X 388 PBGA package and MPC5200B 272 PBGAPGE package currently assembled with Gold wire at Freescale Kuala Lumpur, Malaysia (FSL-KLM-FM).

Package Description	LPN	Wire	
		Original	New
PBGA 272 27*27*1.25P1.27	MPC5200	25um Au	20um Pd Cu
PBGA 388 27*27.25P1.0	MCF547X, MCF548X	20um Au	
PBGAPGE 272 27SQ1.2P1.27	MPC5200B	23um Au	

REASON FOR CHANGE

The transfer from Gold to Copper wire is required to mitigate against raw material cost increase and for supply assurance.

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

Wire composition and wire diameter are the only change to form. No impact to fit or function. Reliability is equivalent or improved.

According to JEDEC Standard JESD46, lack of acknowledgement of this PCN within 30 days will be considered acceptance of change. 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: 29-May-2015

QUALIFICATION STATUS: COMPLETED

QUALIFICATION PLAN:

See attached qualification results.

RELIABILITY DATA SUMMARY:

See attached qualification results.

ELECTRICAL CHARACTERISTIC SUMMARY:

No change to datasheet. Electrical Distribution comparison, Gold wire versus Copper wire included in this notification. Result shows no difference in Electrical Distributions.

CHANGED PART IDENTIFICATION:

There is no change to orderable part number. The Tracecode marking on the device includes assembly site and datecode. Freescale will have traceability by assembly site and datecode.

The table below provides sample part numbers:

Device	Au Part Number	Cu Sample Part Number	Package Description
MPC5200	MPC5200CVR400	KMPC5200CVR400	PBGA 272 27*27*1.25P1.27
MCF548X	MCF5485CVR200	KMCF5485CVR200	PBGA 388 27*27*2.25P1.0
MPC5200B	MPC5200CVR400B	KMPC5200CVR400B	PBGAPGE 272 27SQ1.2P1.27

SAMPLE AVAILABILITY DATE: 01-Jun-2015

ATTACHMENT(S):

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

[16799_KLM_PBGA_0_13um_Cu_vs_Au_Electrical_Distribution_Report.pdf](#)
[16799_Qualification_Report.RevA.pdf](#)
