



FSL Logo

## PRODUCT AND PROCESS CHANGE NOTIFICATION UPDATE

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ISSUE DATE: 13-Jan-2015  
 NOTIFICATION: 16459A  
 TITLE: FSL-TJN-FM ASSEMBLY TSSOP/SOIC CU WIRE QUALIFICATION  
 EFFECTIVE DATE: 12-Apr-2015

DEVICE(S)

MPN
MC68HC08QY4DWE
MC68HC908QY1CDTE
MC68HC908QY1VDTE
MC68HC908QY2CDTE
MC68HC908QY2MDTE
MC68HC908QY4CDTE
MC68HC908QY4MDTE
MC68HC908QY4VDTE
MC705P6ACDWE
MC705P6AMDWE
MC705P6AMDWER
MC908JL3ECDWE
MC908JL3ECDWER
MC908JL3EMDWE
MC908KX2CDWE
MC908KX2CDWER
MC908KX2MDWE
MC908KX2MDWER
MC908KX8CDWE
MC908KX8CDWER2
MC908KX8MDWE
MC908QB4CDWE
MC908QB4CDWER
MC908QB4MDWE
MC908QB4MDWER
MC908QB8CDWE
MC908QB8CDWER
MC908QB8VDWE
MC908QY1ACDWE
MC908QY1AMDWE
MC908QY1CDTER

MC908QY2ACDWE
MC908QY2ACDWER
MC908QY2AMDWE
MC908QY2AMDWER
MC908QY2CDTER
MC908QY4ACDWE
MC908QY4ACDWER
MC908QY4AMDTE
MC908QY4AMDWE
MC908QY4AMDWER
MC908QY4CDTER
MC908QY4CDWER
MC908QY8CDWE
MC908QY8VDWE
MC9RS08KA4CWG
MC9RS08KA4CWGR
MC9RS08KA8CWG
MC9RS08KA8CWGR
MC9RS08LE4CWL
MCHC908QY1CDWE
MCHC908QY1CDWER
MCHC908QY1VDWE
MCHC908QY2CDWE
MCHC908QY2CDWER
MCHC908QY2MDWE
MCHC908QY4CDWE
MCHC908QY4MDWE
MCHC908QY4MDWER
MCHC908QY4VDWE
MCHC908QY4VDWER
MCR908JL3ECDWE
MCR908JL3ECDWER

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#### AFFECTED CHANGE CATEGORIES

- BILL OF MATERIAL CHANGE (SAME ASSEMBLY SITE)

#### DESCRIPTION OF CHANGE

Update effective date from 180 days to 90 days, Copper Wire is being added as a wire bond material option for the products listed in this notification, they are currently assembled with Gold wire at Freescale TJN assembly site, Tianjin, China.

Detail change as follow:

Assembly Site	Package	LPN	Mask set	Current MOLD COMPONENT	New MOLD COMPONENT	Current EPOXY	New EPOXY	Current Wire (Type/Size)	New Wire (Type/Size)
TJNFM	TSSOP 16 4.4*5*1.0P0.65	NITRON	M05Z	G700K	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/25um
TJNFM	TSSOP 16 4.4*5*1.0P0.65	NITRON_SOG	M82Z	G700K	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/20um
TJNFM	SOIC 16W	RS908KA8	M61K	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/25um
TJNFM	SOIC 16W	NITRON_ROM	M62Z	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/20um
TJNFM	SOIC 16W	HC908KX2	K45D	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/25um
TJNFM	SOIC 16W	HC908KX8	K45D	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/25um
TJNFM	SOIC 16W	HC908QB8	M81Z	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/20um
TJNFM	SOIC 16W	NITRON_SOG	N83E	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/20um
TJNFM	SOIC 16W	NITRON	M05Z	G600	G630AY	8290	CRM-1064MB-L	Au/25um	Cu/25um
TJNFM	SOIC 28W	HC705P6A	M11Z	G600	G630AY	No change	No change	Au/25um	Cu/25um
TJNFM	SOIC 28W	HC908JL3E	M56Z/M34P	G600	G630AY	No change	No change	Au/25um	Cu/25um
TJNFM	SOIC 28W	RS908LE4	M58N	G600	G630AY	No change	No change	Au/20um	Cu/25um

## REASON FOR CHANGE

The transfer from Gold to Copper wire is required to mitigate against raw material cost increases and to ensure supply security.

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

The changes are summarized in above table. No Impact to form, 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](http://www.freescale.com)

## RELATED NOTIFICATION(S):

16459- FSL-TJN-FM ASSEMBLY TSSOP/SOIC CU WIRE QUALIFICATION

TO VIEW the GENERIC copy, click on the notification number above.

QUAL DATA AVAILABILITY DATE: 15-Jan-2015

QUALIFICATION STATUS: IN PROCESS

QUALIFICATION PLAN:

Will provide per request.

RELIABILITY DATA SUMMARY:

Will provide per request.

ELECTRICAL CHARACTERISTIC SUMMARY:

No change on the operating performance of the device. Report will provide per request.

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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.

Below Cu Sample parts are available for customers to order.

Au Part Number	Cu Sample Part Number	Package	Fab
MC908KX8MDWE	PC908KX8MDWE	SOIC 16W	TSMCFAB2
MC705P6ACDWE	PC705P6ACDWE	SOIC 28W	MOS12

Other samples on PCN device list need 6 weeks cycle time for delivery from customer order date.

SAMPLE AVAILABILITY DATE: 24-Nov-2014

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ATTACHMENT(S):

N/A

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