



**PRODUCT AND PROCESS CHANGE NOTIFICATION**  
Generic Copy

**ISSUE DATE:** 20-May-2014  
**NOTIFICATION:** 16235  
**TITLE:** Copper Wire Conversion for Microcontroller and Microprocessor Devices  
**EFFECTIVE DATE:** 15-Jul-2014

**DEVICE(S)**

MPN
DSP56F807VF80
DSPB56362AG120
DSPB56362AG120R2
DSPB56367AG150
DSPD56367AG150
DSPF56362AG120
MC14489BDWE
MC14489BDWER2
MC14489BPE
MC56F8002VWL
MC56F8006VWL
MC56F8006VWLR
MC56F8367VFFE
MC68331CAG16
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MC68331CAG25
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MC68HC16Z1MAG16
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MC68HC908QT1MPE
MC68HC908QT1VPE
MC68HC908QT2CPE
MC68HC908QT4CPE
MC68HC908QT4MPE
MC68HC908QT4VPE
MC68HC908QY1CDTE
MC68HC908QY1VDTE
MC68HC908QY1VPE
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MC68HC908QY2CPE
MC68HC908QY2MDTE
MC68HC908QY4CDTE
MC68HC908QY4CPE

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MC68HC908QY4VDTE
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MC908AB32MFUE
MC908AS60ACFUE
MC908AZ60ACFUE
MC908AZ60ACFUER
MC908AZ60AMFUE
MC908AZ60AVFUE
MC908GR32AMFUE
MC908GR60ACFUE
MC908GZ32CFUE
MC908GZ32MFUE
MC908GZ48CFUE
MC908GZ60CFUE
MC908GZ60CFUER
MC908GZ60MFUE
MC908GZ60VFUE
MC908JB8JDWE
MC908JK1ECDWE
MC908JK1EMDWE
MC908JK3ECDWE
MC908JK3ECDWER
MC908JK3EMDWE
MC908JK3EMDWER
MC908JK8CDWE
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MCR908JK3EMDWE
MCS12GC64CFUE
MMC2001HCAB33B
MMC2114CFCVF33
MMC2114CFCVM33
SCIMX27LMOP4A
STFM1000XXNAEB2X
STFM1000XXNARB2X
USB2SERA11CFK
XC68C812A4PVE5

**AFFECTED CHANGE CATEGORIES**

- BILL OF MATERIAL CHANGE (SAME ASSEMBLY SITE)

**DESCRIPTION OF CHANGE**

Copper Wire is being added as a wire bond material option for devices in the notification list currently assembled with Gold wire. These devices are assembled in Freescale Kuala Lumpur Final Manufacturing (KLMFM), KUALA LUMPUR, MALAYSIA; Freescale Tianjin Final Manufacturing (TJNFM), TIANJIN, CHINA; NANTONG FUJITSU MICROELECTRONICS CO.,LTD (NFMEC),Nantong, China; ASE-CL (ASECHUNG), CHUNG-LI, TAIWAN; AMKOR-P1 (ATP1), MANILA, PHILIPPINES. The change to Copper Wire also includes a change in wire diameter, mold compound and die attach epoxy as shown in below table.

Assembly Site	Package Type	LPN	Mask Set	Current Mold Compound	Current Wire (Type/Size)	Current Epoxy	New Mold Cor
ASECHUNG	MAPBGA	HOCKENHEIM	L79V	No Change	Au / 1.0mil	No Change	No Change
ASECHUNG	MAPBGA	VIENNA	K98S	No Change	Au / 1.0mil	No Change	No Change
ASECHUNG	MAPBGA	I.MX51	M77X	No Change	Au / 0.8mil	No Change	No Change
ASECHUNG	QFN	STFM1000	TMR606B-DC	No Change	Au / 0.9mil	No Change	No Change
ASECHUNG	SOIC	ALL	ALL	G700LY	Au / 1.0mil	No Change	CEL-9240HF10

ATP1	TSSOP	ALL	ALL	G700K	Au / 1.0mil	No Change	G700LS
ATP1	SOIC	ALL	ALL	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	RS908KA2	M44C	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	RS908KA8	M61K	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	ROO	M77B	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	S908QD4	M15D	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	S908QD4	N10K	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	S908QE8	M40J	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	S908SH8_IMM	M84G	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	S908SH8_IMM	N37A	G600	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	NITRON	M33P	DMC200NF	Au / 1.0mil	No Change	G700LS
ATP1	PDIP	LED_DRV_5CH	K60A	DMC200NF	Au / 1.0mil	No Change	G700LS
NFMEC	LQFP	ALL	ALL	CEL9210HFVL	Au / 1.0mil	No Change	CEL8240HF10
NFMEC	SOIC	ALL	ALL	G600F	Au / 1.0mil	ABLESTIK 8352L	CEL8240HF10
NFMEC	TSSOP	ALL	ALL	CEL9210HFVL	Au / 1.0mil	ABLESTIK 8352L	CEL8240HF10
KLMFM	LQFP	DSP56367	K41R	CEL 9200	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	LQFP	BARRACUDA4	L01Y	CEL9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	BARRACUDA4	L91N	CEL9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	BLUEFIN	M23S	CEL9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	BLUEFIN	L15Y	CEL9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	KIRINO	M44G	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	KIRIN2U	M24E	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	MARLIN2	L59W	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	MARLIN2	L40K	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	S908DZ128	M78G	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	S912E128	M06C	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	TORPEDO	M89C	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	TORPEDO	L86D	CEL9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	YELLOWFIN	M84E	CEL9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	DCR-4R	L43K	CEL 9200	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	LQFP	DSP56362	J21D	CEL 9200	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	LQFP	POWERSTRIKE	K22K	CRM 9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	HC912D60A	M35Z	CRM 9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	HC912D60A	K38K	CRM 9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	HC16Z1	L80M	CEL 9200	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	LQFP	MC68332	J66A	CEL 9200	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	LQFP	HC12KA4	L00N	CRM 9200HF10M	Au / 1.0mil	ABLEBOND 8290	CEL9200HF10
KLMFM	LQFP	HC16Z1	H69J	CRM 9200HF10M	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	LQFP	MC68331	H17A	CRM 9200HF10M	Au / 1.0mil	D/ATCHCRM-1064R S/C COND	CEL9200HF10
KLMFM	QFP	BARRACUDA4	L91N	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	BARRACUDA4	L01Y	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	BLUEFIN	L15Y	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	BLUEFIN	M23S	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	GOLDFISH	M34C	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	KOI	L09S	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	KOI	M66G	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	MARLIN2	L40K	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	MARLIN2	L59W	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	S912E128	M06C	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	TORPEDO	L86D	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	TORPEDO	M89C	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	YELLOWFIN	M84E	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC912D60A	M35Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC912D60A	K38K	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908AB32A	M61Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908AT60A	M73Y	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908GZ60	M29Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908LJ12	M48Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10

KLMFM	QFP	HC908LJ24	M44Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908MR16	N99D	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908MR32	N99D	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908LK24	M37Z	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908AT60A	K85K	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908GZ60	N55E	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908LJ24	N86E	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908LK24	N85E	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC908AB32A	K56G	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	QFP	HC05B6	N20B	CRM 9200HF10M	Au / 1.0mil	No Change	CEL9200HF10
KLMFM	TQFP	S912NE64	L19S	9200HF10M	Au / 1.0mil	QMI519	CEL9200HF10
TJNFM	SOIC	ALL	ALL	G600	Au / 1.0mil	No Change	G630AY
TJNFM	TSSOP	ALL	ALL	G700K	Au / 1.0mil	ABLEBOND 8290	G630AY
TJNFM	MAPBGA	MCF51MM256	M79V	No Change	Au / 0.8mil	No Change	No Change
TJNFM	MAPBGA	S908MM128	M80v	No Change	Au / 0.8mil	No Change	No Change
TJNFM	MAPBGA	Kirin0	M44G	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	Kirin2U	M24E	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPLGA	S908ER48	N80A	No Change	Au / 0.8mil	No Change	No Change
TJNFM	MAPBGA	Reindeer	L95M	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	Kirin	M30B	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	Kirin3	M42N	No Change	Au / 0.8mil	No Change	No Change
TJNFM	MAPBGA	Kirin2e	M23E	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	Sika_256	K08Y	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	I.MXL	L45N	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	I.MXS	L45N	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	I.MX1	L44N	No Change	Au / 1.0mil	No Change	No Change
TJNFM	MAPBGA	I.MX21	M55B	No Change	Au / 0.9mil	No Change	No Change
TJNFM	MAPBGA	AMADEUS_USB	M51B	No Change	Au / 0.9mil	No Change	No Change
TJNFM	MAPBGA	I.MX25	M09P	No change	Au / 0.7mil	No Change	No change
TJNFM	MAPBGA	I.MX27	M72J	No change	Au / 0.8mil	No Change	No change
TJNFM	MAPBGA	MODELO	N51E	No change	Au / 0.9mil	No Change	No change
TJNFM	MAPBGA	MODELO	M38W	No change	Au / 0.9mil	No Change	No change
TJNFM	MAPBGA	LONGJING	M23H	No change	Au / 0.7mil	No Change	No change
TJNFM	LGA	ALL	ALL	No Change	Au / 1.0mil	No Change	No Change
TJNFM	QFN	ALL	ALL	No Change	Au / 1.0mil	No Change	No Change

**REASON FOR CHANGE**

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

**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)

**QUAL DATA AVAILABILITY DATE:** 15-Jul-2014

**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.

**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 trace ability by assembly site and datecode.

Below Cu PC parts are available for customers to order.

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

LPN	Au Part Number	Cu Part Number	Package	Fab	Assembly Site
MCF51MM256	MCF51MM256VML	PCF51MM256VML	MAPBGA 104 10*10*0.8P0.8	FSL-CHD-FAB	TJNFM
Kirin2U	MCF52223CVM80	PCF52223CVM80	MAPBGA 81 10*10*0.8P1.0	FSL-ATMC-FAB	TJNFM
S908ER48	PC9S08ER48F2CHP	PC9S08ER48CHP	MAPLGA 40 6*6*0.96 P0.5	FSL-ATMC-FAB	TJNFM
Reindeer	MCF5282CVM66	PCF5282CVM66	MAPBGA 256 17*17*1.6P1.0	TSMCFAB3	TJNFM
I.MX1	MC9328MX1DVM20	PC9328MX1DVM20	MAPBGA 256 14*14*1.3P0.8	FSL-ATMC-FAB	TJNFM
AMADEUS_USB	MCF5251CVM140	PCF5251CVM140	MAPBGA 225 13*13*0.8P0.8	TSMC12	TJNFM
I.MX27	MCIMX27MOP4A	PCIMX27MOP4A	MAPBGA 473 19*19*.8P.8	UMCI	TJNFM
MODELO	MCF54417CMJ250	PCF54417CMJ250	MAPBGA 256 17*17*1.6P1.0	TSMC12	TJNFM
Draco4	MC9S08GT32ACFDE	PC9S8GT32ACFDE	QFN 48 EP 7SQ*1.0P0.5	TSMCFAB3	TJNFM
LASKO	MCF51CN128CGT	PCF51CN128CGT	QFN 48 EP 7SQ*1.0P0.5	FSL-CHD-FAB	TJNFM
S908SF4	MC9S08SF4MTG	PC9S08SF4MTG	TSSOP 16 4.4*5*1.0P0.65	TSMCFAB3	TJNFM
S908SH8_IMM	MC9S08SH8CTG	PC9S08SH8CTG	TSSOP 16 4.4*5*1.0P0.65	FSL-CHD-FAB	TJNFM
ROO	MC9S08QG8CDTE	PC9S08QG8CDTE	TSSOP 16 4.4*5*1.0P0.65	FSL-ATMC-FAB	TJNFM
ANGUILLA_WHITE	MC56F8006VWL	PC56F8006VWL	SOIC 28W	FSL-CHD-FAB	TJNFM
AQUILA	MC9S08RD32DWE	PC9S08RD32DWE	SOIC 28W	TSMCFAB3	TJNFM
MCF51MM256	MCF51MM256VLK	PCF51MM256VLK	LQFP 80 12*12*1.4P0.5	FSL-CHD-FAB	NFMEC
ROO	MC9S08QG8CDNE	PC9S08QG8CDTE	SOICN 8 3.9*4.9*1.75	FSL-CHD-FAB	NFMEC
KB12	MC9RS08KB2CSC	PC9RS08KB2CSC	SOICN 8 3.9*4.9*1.75	TSMCFAB3	NFMEC
KB12	MC9RS08KB12CTG	PC9RS08KB12CTG	TSSOP 16 4.4*5*1.0P0.65	TSMCFAB3	NFMEC
S908QE8	MC9S08QE8CTG	PC9S08QE8CTG	TSSOP 16 4.4*5*1.0P0.65	FSL-CHD-FAB	NFMEC
S908SF4	MC9S08SF4MTG	PC9S08SF4MTG	TSSOP 16 4.4*5*1.0P0.65	TSMCFAB3	NFMEC
S908SH8_IMM	MC9S08SH8CPJ	PC9S08SH8CPJ	PDIP 20	FSL-CHD-FAB	ATP1
S908SH8_IMM	MC9S08SH4CPJ	PC9S08SH4CPJ	PDIP 20	TSMCFAB3	ATP1
ROO	MC9S08QA4CPAE	PC9S08QA4CPAE	PDIP 8	FSL-CHD-FAB	ATP1
LED_DRVR_5CH	MC14489BPE	PC14489BPE	PDIP 20	UMCFAB6A	ATP1
Nitron	MC68HC908QT1MPE	PC68HC908QT1MPE	PDIP 8	TSMC2	ATP1
NITRON	MCHC908QY1CDWE	PCHC908QY1CDWE	SOIC 16W	TSMC2	ATP1
HC908KX8	MC908KX8CDWE	PC908KX8CDWE	SOIC 16W	TSMC2	ATP1
S908SH8_IMM	MC9S08SH8CTJ	PC9S08SH8CTJ	TSSOP20 4.4*6.5*1.P.65	TSMCFAB3	ATP1

DSP56367	DSPB56367AG150	PDSPB56367AG15	LQFP 144 20*20*1.4P0.5	TSMCFAB3	KLMFM
HC11E9	SC514860VFUE	PC514860VFUE	QFP64 14*14*2.1P0.8	FSL-CHD- FAB	KLMFM
HOCKENHEIM	MC56F8367VVFE	PC56F8367VVFE	MAPBGA 160 15*15*0.8P1.0	TSMC11	ASECHUNG
S908JS16	MC9S08JS16CWJ	PC9S08JS16CWJ	SOIC 20W	TSMCFAB3	ASECHUNG
S908SH8_IMM	MC9S08SH8CWJ	PC9S08SH8CWJ	SOIC 20W	FSL-CHD- FAB	ASECHUNG
LED_DRVR_5CH	MC14489BDWE	PC14489BDWE	SOIC 20W	UMCFAB6A	ASECHUNG

**SAMPLE AVAILABILITY DATE:** 02-Jun-2014

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**ATTACHMENT(S):**

N/A

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