

FREESCALE

Freescale Semiconductor, Inc.
Issuing Division: SENSOR DIVISION - SNSR (JK)

PRODUCT AND PROCESS CHANGE NOTIFICATION
Customer Copy - Emailed Direct

14-APR-2005

NAME: CHRISTA STRAUBMEIER ,
EMAIL ADDRESS: TTG043@freescale.com
Attn: EBV EUROPE
Subject: FREESCALE PRODUCT AND PROCESS CHANGE
NOTIFICATION 10841
TITLE: NIPDAU PLATED LEADFRAME QUAL

EFFECTIVE DATE: 04-Sep-2005

Customer Code: EBV EUROPE
Customer Copy Number: 10841_970711

AFFECTED CHANGE CATEGORIES

- PACKAGE CHANGE

AFFECTED PRODUCT DIVISIONS

- COMPUTING PLATFORM DIVISION - CPD (NR)
- SENSOR DIVISION - SNSR (JK)
- NETWORK & COMM SYS DIV - NCSD (NB / NC / ND / NI / NM)
- ANALOG PRODUCT DIVISION - APD (JS)
- DIGITAL AUDIO, RADIO & TELEMATICS DIVISION - DART (JI)
- 8/16 BIT DIVISION (JD)
- 32 BIT EMBEDDED CONTROLLER DIVISION - TECD (JB)
- RADIO PRODUCTS DIVISION - RPD (VW)
- WIRELESS SOLUTIONS DIVISION - WSD (VC)
- RADIO FREQUENCY DIVISION - RFD (NH)

ADDITIONAL RELIABILITY DATA: Available
REFERENCE: Contact Sales Office (RSTX60)

Contact your local Sales Office.

SAMPLES: Contact Local Sales Office
REFERENCE: Contact Sales Office (RLWK90)

Contact your local Sales Office.

For any questions concerning this notification:

REFERENCE: Contact Sales Office (MIKE NELSON)

DISCLAIMER

DISCLAIMER:

FREESCALE WILL CONSIDER THIS CHANGE APPROVED UNLESS SPECIFIC CONDITIONS OF ACCEPTANCE ARE PROVIDED IN WRITING WITHIN 30 DAYS OF RECEIPT OF THIS NOTICE. TO DO SO, CONTACT YOUR LOCAL SALES OFFICE.

For questions or comments about this notification, you may contact your local sales representative at the email address listed below:

TTG043@freescale.com

DO NOT REPLY TO THIS MESSAGE

GPCN FORMAT: CONSOLIDATED

DESCRIPTION AND PURPOSE

The current product is leadfree and will remain leadfree after this plating change. The current Plating Scheme is as follows: Ni/Au on bonding area, with Ni/Au on the leads. New Plating Scheme: Industry Std Ni/Pd/Au on the entire leadframe. A new supplier will be qualified. This should not necessitate a change to the customers solder process. Due to the large number of devices being transitioned to the new plating scheme, the change will start on September 4th and run thru December 2005. Contact personel can provide specific Part Number information.

QUALIFICATION PLAN

TST = Pre - Post Stress Electrical test
HTS = High Temp Bake; 125C for 1000 hrs
H3TB = Temperature Humidity Bias; 60C/90 percent RH for 1000 hrs
TC = Temp Cycle; -40C to +125C for 1000 cycles
Reflow Solder Simulation; 2X reflow for board mounted part, 3X for loose parts, peak temp = 250C.
SD = Solderability test, burn-in + 8 hr steam age

RELIABILITY DATA SUMMARY

Available by March 25, 2005.

ELECTRICAL CHARACTERISTIC SUMMARY

Available by March 25, 2005.

CHANGED PART IDENTIFICATION

N/A

AFFECTED CUSTOMERS

CUSTOMER

EBV ELEKTRONIK GMBH & CO KG
IM TECHNOLOGIEPARK 2-8
85586 POING
GERMANY

AFFECTED DEVICES

CPN

MPX10D
MPX10DP
MPX10GP
MPX10GS
MPX12D
MPX12DP
MPX2010D
MPX2010DP
MPX2010GP
MPX2010GSX
MPX2050D
MPX2050DP
MPX2050GP
MPX2050GSX
MPX2053DP
MPX2053GP
MPX2100A
MPX2100AP
MPX2100ASX
MPX2100D
MPX2100DP
MPX2100GP
MPX2100GVP
MPX2102A
MPX2102AP
MPX2102DP
MPX2200A
MPX2200AP
MPX2200D
MPX2200DP
MPX2200GP
MPX2202A
MPX2202AP
MPX2202ASX

MPN

MPX10D
MPX10DP
MPX10GP
MPX10GS
MPX12D
MPX12DP
MPX2010D
MPX2010DP
MPX2010GP
MPX2010GSX
MPX2050D
MPX2050DP
MPX2050GP
MPX2050GSX
MPX2053DP
MPX2053GP
MPX2100A
MPX2100AP
MPX2100ASX
MPX2100D
MPX2100DP
MPX2100GP
MPX2100GVP
MPX2102A
MPX2102AP
MPX2102DP
MPX2200A
MPX2200AP
MPX2200D
MPX2200DP
MPX2200GP
MPX2202A
MPX2202AP
MPX2202ASX

| | |
|--------------|--------------|
| MPX2202DP | MPX2202DP |
| MPX2300D | MPX2300D |
| MPX4100A | MPX4100A |
| MPX4100AP | MPX4100AP |
| MPX4100AS | MPX4100AS |
| MPX4101A | MPX4101A |
| MPX4105A | MPX4105A |
| MPX4115A | MPX4115A |
| MPX4115AP | MPX4115AP |
| MPX4115AS | MPX4115AS |
| MPX4250A | MPX4250A |
| MPX4250AP | MPX4250AP |
| MPX4250D | MPX4250D |
| MPX4250DP | MPX4250DP |
| MPX4250GP | MPX4250GP |
| MPX5010D | MPX5010D |
| MPX5010DP | MPX5010DP |
| MPX5010GP | MPX5010GP |
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| MPX5100AP | MPX5100AP |
| MPX5100D | MPX5100D |
| MPX5100DP | MPX5100DP |
| MPX5100GP | MPX5100GP |
| MPX5100GSX | MPX5100GSX |
| MPX53D | MPX53D |
| MPX53DP | MPX53DP |
| MPX53GP | MPX53GP |
| MPX5500D | MPX5500D |
| MPX5500DP | MPX5500DP |
| MPX5700AP | MPX5700AP |
| MPX5700AS | MPX5700AS |
| MPX5700D | MPX5700D |
| MPX5700DP | MPX5700DP |
| MPX5700GP | MPX5700GP |
| MPX5700GS | MPX5700GS |
| MPX5999D | MPX5999D |
| MPXA4100A6U | MPXA4100A6U |
| MPXA4100AC6U | MPXA4100AC6U |
| MPXA4101AC6U | MPXA4101AC6U |
| MPXA4115A6T1 | MPXA4115A6T1 |

MPXA4115A6U
MPXA4115AC6U
MPXA4250A6U
MPXA4250AC6T1
MPXA4250AC6U
MPXA6115A6U
MPXA6115AC6U
MPXA6115AC7U
MPXH6115A6U
MPXH6115AC6U
MPXH6250AC6U
MPXH6300A6T1
MPXH6300A6U
MPXH6300AC6T1
MPXH6300AC6U
MPXH6400AC6T1
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MPXM2010GS
MPXM2053D
MPXM2053GS
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MPXM2102AS
MPXM2102D
MPXM2102GS
MPXM2202A
MPXM2202AS
MPXM2202GS
MPXM2202GST1
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MPXV4006G6U
MPXV4006G7U
MPXV4006GC6U
MPXV4006GC7U
MPXV4006GP
MPXV4115V6U

MPXA4115A6U
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MPXA4250AC6T1
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MPXA6115AC6U
MPXA6115AC7U
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MPXH6400AC6T1
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MPXV5004GC7U
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MPXV5004GVP
MPXV5010DP
MPXV5010G6U
MPXV5010GC6U
MPXV5010GC7U
MPXV5010GP
MPXV5050DP
MPXV5050GP
MPXV5050VC6T1
MPXV5100GC6U
MPXV5100GC7U
MPXV53GC7U
SPV5025DP
SPV5025DPT1
SPX3054D
SPX3061GB
SPX4063GP
SPX4065GP

MPXV4115VC6U
MPXV5004DP
MPXV5004G6U
MPXV5004G7U
MPXV5004GC6U
MPXV5004GC7U
MPXV5004GP
MPXV5004GVP
MPXV5010DP
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MPXV5100GC7U
MPXV53GC7U
SPV5025DP
SPV5025DPT1
SPX3054D
SPX3061GB
SPX4063GP
SPX4065GP