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**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION**

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**23 May 2008**

**SUBJECT: ON Semiconductor Initial Product/Process Change Notification # 16115**

**TITLE: Initial Notification for MOSAIC M35 and MOSAIC M5 products from  
COM1 wafer fab (Phoenix AZ) to CZ4 wafer fab (Roznov, Czech Republic)**

**PROPOSED FIRST SHIP DATE: 23 Sep 2008**

**AFFECTED CHANGE CATEGORY: ON Semiconductor wafer fab Site**

**AFFECTED PRODUCT DIVISION: Emitter-Coupled Logic (ECL)**

**FOR SAMPLES:**

Contact your local ON Semiconductor Sales Office

**FOR ANY QUESTIONS CONCERNING RELIABILITY DATA:**

Contact your local ON Semiconductor Sales Office or Matt Kas <matt.kas@onsemi.com>

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or Terry Galloway <terry.galloway@onsemi.com>

**NOTIFICATION TYPE:**

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan

The completed qualification data will be included in the Final Product/Process Change Notification

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change

ON Semiconductor 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 ON Semiconductor Sales Office.

**DESCRIPTION AND PURPOSE:**

In order to continue to support our customer's requirements for MOSAIC M35 and MOSAIC M5 products, the fabrication of these devices is being moved from ON Semiconductor's current wafer fab, COM1 in Phoenix Arizona, to ON Semiconductor's wafer fab, CZ4 in Roznov Czech Republic.



**Initial Product/Process Change Notification # 16115**

**QUALIFICATION PLAN:**

Reliability testing will be performed on qualification vehicles chosen based on die size, voltage rating, and run rates.

Extrinsic Reliability

1. High Temp Op Life	1 lot/vehicle	504 hrs. (FIT < 1000)
2. High Temp Storage (150 °C)	1 lot/vehicle X 80 units/lot	504 hrs.
3. Pre-Conditioning MSL 1 260	1 lot/vehicle X 80 units/lot	
4. HAST (130 °C/85%RH)	1 lot/vehicle X 80 units/lot	96 hrs.
5. Autoclave (121 °C/100%RH/15PSIG)	1 lot/vehicle X 80 units/lot	96 hrs.
6a.Temp Cycling (-65 °C to +150 °C)	1 lot/vehicle X 80 units/lot	500 cycles
7. External Visual Inspection	All Units	
8. Wire Bond Pull Strength	1 lot/vehicle X 15 units/lot X 8 bonds/unit	
9. Solder Ball Strength Test	1 lot/vehicle X 15 unit/lot X 9 balls/unit	
10.ESD - Human Body Model	1 lot/vehicle X 3 units/lot	2000 V minimum,
11.ESD - Machine Model	1 lot/vehicle X 3 units/lot	200 V minimum
12.Latch-Up	1 lot/vehicle X 6 units/lot	JESD78 Minimum
13.Early Life Failure Rate	1 lot/vehicle X 500 units/lot	48 hrs

Product Qualification Vehicles

*M 5:*  
 MC100LVEP111FAG For L05B Device Array, Highest Runner  
 NB100LVEP224FAG For L44E Device Array, Largest Die

*M 3.5:*  
 MC10EL16DG For AC76 Device Array, Small Die  
 MC100E195FNG For E27G Device Array, Largest Die  
 MC10E016FNG For AC74 Device Array, Largest Die



**Initial Product/Process Change Notification # 16115**

**AFFECTED DEVICE LIST:**

- M35 Devices
- SC64046FN
- SC64046FNG
- SC64046FNR2
- SC64046FNR2G
- SC64046BFNG
- SC64046FBNR2G
- MC12026AD
- MC12026ADG
- MC12026ADR2
- MC12026ADR2G
- MC12080D
- MC12080DG
- MC12080DR2
- MC12080DR2G
- MC100E016FN
- MC100E016FNG
- MC100E016FNR2
- MC100E016FNR2G
- MC100E101FN
- MC100E101FNG
- MC100E101FNR2
- MC100E101FNR2G
- MC100E104FN
- MC100E104FNG
- MC100E104FNR2
- MC100E104FNR2G
- MC100E107FN
- MC100E107FNG
- MC100E107FNR2
- MC100E107FNR2G
- MC100E116FN
- MC100E116FNG
- MC100E116FNR2
- MC100E116FNR2G
- MC100E122FN
- MC100E122FNR2
- MC100E131FN
- MC100E131FNG
- MC100E131FNR2
- MC100E131FNR2G
- MC100E141FN
- MC100E141FNG
- MC100E141FNR2
- MC100E141FNR2G
- MC100E142FN
- MC100E142FNG
- MC100E142FNR2
- MC100E142FNR2G
- MC100E143FN
- MC100E143FNG
- MC100E143FNR2
- MC100E143FNR2G



**Initial Product/Process Change Notification # 16115**

MC100E151FN  
MC100E151FNG  
MC100E151FNR2  
MC100E151FNR2G  
MC100E154FN  
MC100E154FNR2  
MC100E155FN  
MC100E155FNR2  
MC100E156FN  
MC100E157FN  
MC100E157FNG  
MC100E157FNR2  
MC100E157FNR2G  
MC100E158FN  
MC100E158FNG  
MC100E158FNR2  
MC100E158FNR2G  
MC100E160FN  
MC100E163FN  
MC100E163FNG  
MC100E163FNR2  
MC100E163FNR2G  
MC100E164FN  
MC100E164FNG  
MC100E164FNR2  
MC100E164FNR2G  
MC100E166FN  
MC100E166FNR2  
MC100E167FN  
MC100E171FN  
MC100E171FNG  
MC100E171FNR2  
MC100E171FNR2G  
MC100E195FN  
MC100E195FNG  
MC100E195FNR2  
MC100E195FNR2G  
MC100E196FN  
MC100E196FNG  
MC100E196FNR2  
MC100E196FNR2G  
MC100E241FN  
MC100E241FNG  
MC100E241FNR2  
MC100E241FNR2G  
MC100E404FN  
MC100E404FNG  
MC100E404FNR2  
MC100E404FNR2G  
MC100E431FN  
MC100E431FNG  
MC100E431FNR2  
MC100E431FNR2G  
MC100E451FN  
MC100E451FNG



**Initial Product/Process Change Notification # 16115**

MC100E451FNR2  
MC100E451FNR2G  
MC100E452FN  
MC100E452FNG  
MC100E452FNR2  
MC100E452FNR2G  
MC100E457FN  
MC100E457FNG  
MC100E457FNR2  
MC100E457FNR2G  
MC10E016FN  
MC10E016FNG  
MC10E016FNR2  
MC10E016FNR2G  
MC10E101FN  
MC10E101FNG  
MC10E101FNR2  
MC10E101FNR2G  
MC10E104FN  
MC10E104FNG  
MC10E104FNR2  
MC10E104FNR2G  
MC10E107FN  
MC10E107FNG  
MC10E107FNR2  
MC10E107FNR2G  
MC10E112FN  
MC10E112FNG  
MC10E112FNR2  
MC10E112FNR2G  
MC10E116FN  
MC10E116FNG  
MC10E116FNR2  
MC10E116FNR2G  
MC10E122FN  
MC10E122FNG  
MC10E122FNR2  
MC10E122FNR2G  
MC10E131FN  
MC10E131FNG  
MC10E131FNR2  
MC10E131FNR2G  
MC10E141FN  
MC10E141FNG  
MC10E141FNR2  
MC10E141FNR2G  
MC10E142FN  
MC10E142FNG  
MC10E142FNR2  
MC10E142FNR2G  
MC10E143FN  
MC10E143FNG  
MC10E143FNR2  
MC10E143FNR2G  
MC10E151FN



**Initial Product/Process Change Notification # 16115**

MC10E151FNG  
MC10E151FNR2  
MC10E151FNR2G  
MC10E154FN  
MC10E154FNG  
MC10E154FNR2  
MC10E154FNR2G  
MC10E155FN  
MC10E155FNG  
MC10E155FNR2  
MC10E155FNR2G  
MC10E156FN  
MC10E156FNG  
MC10E156FNR2  
MC10E156FNR2G  
MC10E157FN  
MC10E157FNG  
MC10E157FNR2  
MC10E157FNR2G  
MC10E158FN  
MC10E158FNG  
MC10E158FNR2  
MC10E158FNR2G  
MC10E160FN  
MC10E160FNR2  
MC10E163FN  
MC10E163FNG  
MC10E163FNR2  
MC10E163FNR2G  
MC10E164FN  
MC10E164FNG  
MC10E164FNR2  
MC10E164FNR2G  
MC10E166FN  
MC10E166FNG  
MC10E166FNR2  
MC10E166FNR2G  
MC10E167FN  
MC10E167FNG  
MC10E167FNR2  
MC10E167FNR2G  
MC10E171FN  
MC10E171FNG  
MC10E171FNR2  
MC10E171FNR2G  
MC10E195FN  
MC10E195FNG  
MC10E195FNR2  
MC10E195FNR2G  
MC10E196FN  
MC10E196FNG  
MC10E196FNR2  
MC10E196FNR2G  
MC10E197FN  
MC10E212FN



**Initial Product/Process Change Notification # 16115**

MC10E212FNR2  
MC10E404FN  
MC10E404FNG  
MC10E404FNR2  
MC10E404FNR2G  
MC10E416FN  
MC10E416FNG  
MC10E416FNR2  
MC10E416FNR2G  
MC10E431FN  
MC10E431FNG  
MC10E431FNR2  
MC10E431FNR2G  
MC10E451FN  
MC10E451FNG  
MC10E451FNR2  
MC10E451FNR2G  
MC10E452FN  
MC10E452FNG  
MC10E452FNR2  
MC10E452FNR2G  
MC10E457FN  
MC10E457FNG  
MC10E457FNR2  
MC10E457FNR2G  
MC100EL91DW  
MC100EL91DWG  
MC100EL91DWR2  
MC100EL91DWR2G  
MC100LVE164FA  
MC100LVE164FAG  
MC100LVE164FAR2  
MC100LVE164FAR2G  
MC100LVE210FN  
MC100LVE210FNG  
MC100LVE210FNR2  
MC100LVE210FNR2G  
MC100LVE310FN  
MC100LVE310FNG  
MC100LVE310FNR2  
MC100LVE310FNR2G  
MC100LVEL13DW  
MC100LVEL13DWG  
MC100LVEL13DWR2  
MC100LVEL13DWR2G  
MC100LVEL14DW  
MC100LVEL14DWG  
MC100LVEL14DWR2  
MC100LVEL14DWR2G  
MC100LVEL17DW  
MC100LVEL17DWG  
MC100LVEL17DWR2  
MC100LVEL17DWR2G  
MC100LVEL29DW  
MC100LVEL29DWG



**Initial Product/Process Change Notification # 16115**

MC100LVEL29DWR2  
MC100LVEL29DWR2G  
MC100LVEL30DW  
MC100LVEL30DWG  
MC100LVEL30DWR2  
MC100LVEL30DWR2G  
MC100LVEL37DW  
MC100LVEL37DWG  
MC100LVEL37DWR2  
MC100LVEL37DWR2G  
MC100LVEL38DW  
MC100LVEL38DWG  
MC100LVEL38DWR2  
MC100LVEL38DWR2G  
MC100LVEL39DW  
MC100LVEL39DWG  
MC100LVEL39DWR2  
MC100LVEL39DWR2G  
MC100LVEL40DW  
MC100LVEL40DWG  
MC100LVEL40DWR2  
MC100LVEL40DWR2G  
MC100LVEL56DW  
MC100LVEL56DWG  
MC100LVEL56DWR2  
MC100LVEL56DWR2G  
MC100LVEL59DW  
MC100LVEL59DWG  
MC100LVEL59DWR2  
MC100LVEL59DWR2G  
MC100LVEL90DW  
MC100LVEL90DWG  
MC100LVEL90DWR2  
MC100LVEL90DWR2G  
MC100LVEL91DW  
MC100LVEL91DWG  
MC100LVEL91DWR2  
MC100LVEL91DWR2G  
MC100LVEL92DW  
MC100LVEL92DWG  
MC100LVEL92DWR2  
MC100LVEL92DWR2G  
MC100EL01D  
MC100EL01DG  
MC100EL01DR2  
MC100EL01DR2G  
MC100EL01DT  
MC100EL01DTG  
MC100EL01DTR2  
MC100EL01DTR2G  
MC100EL04D  
MC100EL04DG  
MC100EL04DR2  
MC100EL04DR2G  
MC100EL04DT





**Initial Product/Process Change Notification # 16115**

MC100EL04DTG  
MC100EL04DTR2  
MC100EL04DTR2G  
MC100EL05D  
MC100EL05DG  
MC100EL05DR2  
MC100EL05DR2G  
MC100EL05DT  
MC100EL05DTG  
MC100EL05DTR2  
MC100EL05DTR2G  
MC100EL07D  
MC100EL07DG  
MC100EL07DR2  
MC100EL07DR2G  
MC100EL07DT  
MC100EL07DTG  
MC100EL07DTR2  
MC100EL07DTR2G  
MC100EL11D  
MC100EL11DG  
MC100EL11DR2  
MC100EL11DR2G  
MC100EL11DT  
MC100EL11DTG  
MC100EL11DTR2  
MC100EL11DTR2G  
MC100EL12D  
MC100EL12DG  
MC100EL12DR2  
MC100EL12DR2G  
MC100EL12DT  
MC100EL12DTG  
MC100EL12DTR2  
MC100EL12DTR2G  
MC100EL16D  
MC100EL16DG  
MC100EL16DR2  
MC100EL16DR2G  
MC100EL16DT  
MC100EL16DTG  
MC100EL16DTR2  
MC100EL16DTR2G  
MC100EL31D  
MC100EL31DG  
MC100EL31DR2  
MC100EL31DR2G  
MC100EL31DT  
MC100EL31DTG  
MC100EL31DTR2  
MC100EL31DTR2G  
MC100EL32D  
MC100EL32DG  
MC100EL32DR2  
MC100EL32DR2G



**Initial Product/Process Change Notification # 16115**

MC100EL32DT  
MC100EL32DTG  
MC100EL32DTR2  
MC100EL32DTR2G  
MC100EL33D  
MC100EL33DG  
MC100EL33DR2  
MC100EL33DR2G  
MC100EL33DT  
MC100EL33DTG  
MC100EL33DTR2  
MC100EL33DTR2G  
MC100EL35D  
MC100EL35DG  
MC100EL35DR2  
MC100EL35DR2G  
MC100EL35DT  
MC100EL35DTG  
MC100EL35DTR2  
MC100EL35DTR2G  
MC100EL51D  
MC100EL51DG  
MC100EL51DR2  
MC100EL51DR2G  
MC100EL51DT  
MC100EL51DTG  
MC100EL51DTR2  
MC100EL51DTR2G  
MCH12140D  
MCH12140DG  
MCH12140DR2  
MCH12140DR2G  
MCK12140D  
MCK12140DG  
MCK12140DR2  
MCK12140DR2G  
MC10E111FN  
MC10E111FNG  
MC10E111FNR2  
MC10E111FNR2G  
MC100E111FN  
MC100E111FNG  
MC100E111FNR2  
MC100E111FNR2G  
MC100LVE111FN  
MC100LVE111FNG  
MC100LVE111FNR2  
MC100LVE111FNR2G  
MC10E111SFN  
MC10E111SFNR2  
MC100LVE222FA  
MC100LVE222FAG  
MC100LVE222FAR2  
MC100LVE222FAR2G  
MC100EL15D



**Initial Product/Process Change Notification # 16115**

MC100EL15DG  
MC100EL15DR2  
MC100EL15DR2G  
MC100EL34D  
MC100EL34DG  
MC100EL34DR2  
MC100EL34DR2G  
MC100EL57D  
MC100EL57DG  
MC100EL57DR2  
MC100EL57DR2G  
MC10EL15D  
MC10EL15DG  
MC10EL15DR2  
MC10EL15DR2G  
MC10EL34D  
MC10EL34DG  
MC10EL34DR2  
MC10EL34DR2G  
MC10EL57D  
MC10EL57DG  
MC10EL57DR2  
MC10EL57DR2G  
MC10SX1189D  
MC10SX1189DG  
MC10SX1189DR2  
MC10SX1189DR2G  
MC10E136FN  
MC10E136FNG  
MC10E136FNR2  
MC10E136FNR2G  
MC10E137FN  
MC10E137FNG  
MC10E137FNR2  
MC10E137FNR2G  
MC10E211FN  
MC10E211FNG  
MC10E211FNR2  
MC10E211FNR2G  
MC10E445FN  
MC10E445FNG  
MC10E445FNR2  
MC10E445FNR2G  
MC10E446FN  
MC10E446FNG  
MC10E446FNR2  
MC10E446FNR2G  
MC100E136FN  
MC100E136FNG  
MC100E136FNR2  
MC100E136FNR2G  
MC100E137FN  
MC100E137FNG  
MC100E137FNR2  
MC100E137FNR2G



**Initial Product/Process Change Notification # 16115**

MC100E211FN  
MC100E211FNG  
MC100E211FNR2  
MC100E211FNR2G  
MC100E445FN  
MC100E445FNG  
MC100E445FNR2  
MC100E445FNR2G  
MC100E446FN  
MC100E446FNG  
MC100E446FNR2  
MC100E446FNR2G  
SC64029FN  
SC64029FNR2  
MC10E1651FN  
MC10E1651FNG  
MC10E1651FNR2  
MC10E1651FNR2G  
MC10E1652FN  
MC10E1652FNG  
MC10E1652FNR2  
MC10E1652FNR2G  
MC100LVEL01D  
MC100LVEL01DG  
MC100LVEL01DR2  
MC100LVEL01DR2G  
MC100LVEL01DT  
MC100LVEL01DTG  
MC100LVEL01DTR2  
MC100LVEL01DTR2G  
MC100LVEL05D  
MC100LVEL05DG  
MC100LVEL05DR2  
MC100LVEL05DR2G  
MC100LVEL05DT  
MC100LVEL05DTG  
MC100LVEL05DTR2  
MC100LVEL05DTR2G  
MC100LVEL11D  
MC100LVEL11DG  
MC100LVEL11DR2  
MC100LVEL11DR2G  
MC100LVEL11DT  
MC100LVEL11DTG  
MC100LVEL11DTR2  
MC100LVEL11DTR2G  
MC100LVEL12D  
MC100LVEL12DG  
MC100LVEL12DR2  
MC100LVEL12DR2G  
MC100LVEL12DT  
MC100LVEL12DTG  
MC100LVEL12DTR2  
MC100LVEL12DTR2G  
MC100LVEL16D



**Initial Product/Process Change Notification # 16115**

MC100LVEL16DG  
MC100LVEL16DR2  
MC100LVEL16DR2G  
MC100LVEL16DT  
MC100LVEL16DTG  
MC100LVEL16DTR2  
MC100LVEL16DTR2G  
MC100LVEL31D  
MC100LVEL31DG  
MC100LVEL31DR2  
MC100LVEL31DR2G  
MC100LVEL31DT  
MC100LVEL31DTG  
MC100LVEL31DTR2  
MC100LVEL31DTR2G  
MC100LVEL32D  
MC100LVEL32DG  
MC100LVEL32DR2  
MC100LVEL32DR2G  
MC100LVEL32DT  
MC100LVEL32DTG  
MC100LVEL32DTR2  
MC100LVEL32DTR2G  
MC100LVEL33D  
MC100LVEL33DG  
MC100LVEL33DR2  
MC100LVEL33DR2G  
MC100LVEL33DT  
MC100LVEL33DTG  
MC100LVEL33DTR2  
MC100LVEL33DTR2G  
MC100LVEL51D  
MC100LVEL51DG  
MC100LVEL51DR2  
MC100LVEL51DR2G  
MC100LVEL51DT  
MC100LVEL51DTG  
MC100LVEL51DTR2  
MC100LVEL51DTR2G  
MC100LVEL58D  
MC100LVEL58DG  
MC100LVEL58DR2  
MC100LVEL58DR2G  
MC100LVEL58DT  
MC100LVEL58DTG  
MC100LVEL58DTR2  
MC100LVEL58DTR2G  
MC100LVELT22D  
MC100LVELT22DG  
MC100LVELT22DR2  
MC100LVELT22DR2G  
MC100LVELT22DT  
MC100LVELT22DTG  
MC100LVELT22DTR2  
MC100LVELT22DTR2G



**Initial Product/Process Change Notification # 16115**

MC100EL1648DT  
MC100EL1648DTG  
MC100EL1648DTR2  
MC100EL1648DTR2G  
MC100EL1648D  
MC100EL1648DG  
MC100EL1648DR2  
MC100EL1648DR2G  
MC100EL1648MNR4G  
MC100EP016AFA  
MC100EP016AFAG  
MC100EP016AFAR2  
MC100EP016AFAR2G  
MC100EP016AMNG  
MC100EP016AMNR4G  
MC100EP01D  
MC100EP01DG  
MC100EP01DR2  
MC100EP01DR2G  
MC100EP01DT  
MC100EP01DTG  
MC100EP01DTR2  
MC100EP01DTR2G  
MC100EP01MNR4G  
MC100EP05D  
MC100EP05DG  
MC100EP05DR2  
MC100EP05DR2G  
MC100EP05DT  
MC100EP05DTG  
MC100EP05DTR2  
MC100EP05DTR2G  
MC100EP05MNR4G  
MC100EP08D  
MC100EP08DG  
MC100EP08DR2  
MC100EP08DR2G  
MC100EP08DT  
MC100EP08DTG  
MC100EP08DTR2  
MC100EP08DTR2G  
MC100EP08MNR4G  
MC100EP101FA  
MC100EP101FAG  
MC100EP101FAR2  
MC100EP101FAR2G  
MC100EP101MNG  
MC100EP101MNR4G  
MC100EP105FA  
MC100EP105FAG  
MC100EP105FAR2  
MC100EP105FAR2G  
MC100EP105MNG  
MC100EP105MNR4G  
MC100EP116FA  
MC100EP116FAG



**Initial Product/Process Change Notification # 16115**

MC100EP116FAR2  
MC100EP116FAR2G  
MC100EP116MNG  
MC100EP116MNR4G  
MC100EP11D  
MC100EP11DG  
MC100EP11DR2  
MC100EP11DR2G  
MC100EP11DT  
MC100EP11DTG  
MC100EP11DTR2  
MC100EP11DTR2G  
MC100EP11MNR4G  
MC100EP131FA  
MC100EP131FAG  
MC100EP131FAR2  
MC100EP131FAR2G  
MC100EP131MNG  
MC100EP131MNR4G  
MC100EP139DT  
MC100EP139DTG  
MC100EP139DTR2  
MC100EP139DTR2G  
MC100EP139DW  
MC100EP139DWG  
MC100EP139DWR2  
MC100EP139DWR2G  
MC100EP139MNG  
MC100EP139MNTXG  
MC100EP140D  
MC100EP140DG  
MC100EP140DR2  
MC100EP140DR2G  
MC100EP142FA  
MC100EP142FAG  
MC100EP142FAR2  
MC100EP142FAR2G  
MC100EP142MNG  
MC100EP142MNR4G  
MC100EP14DT  
MC100EP14DTG  
MC100EP14DTR2  
MC100EP14DTR2G  
MC100EP16D  
MC100EP16DG  
MC100EP16DR2  
MC100EP16DR2G  
MC100EP16DT  
MC100EP16DTG  
MC100EP16DTR2  
MC100EP16DTR2G  
MC100EP16MNR4G  
MC100EP16VAD  
MC100EP16VADG  
MC100EP16VADR2  
MC100EP16VADR2G



**Initial Product/Process Change Notification # 16115**

MC100EP16VADT  
MC100EP16VADTG  
MC100EP16VADTR2  
MC100EP16VADTR2G  
MC100EP16VAMNR4G  
MC100EP16VBD  
MC100EP16VBDG  
MC100EP16VBDR2  
MC100EP16VBDR2G  
MC100EP16VBDT  
MC100EP16VBDTG  
MC100EP16VBDTR2  
MC100EP16VBDTR2G  
MC100EP16VBMNR4G  
MC100EP16VCD  
MC100EP16VCDG  
MC100EP16VCDR2  
MC100EP16VCDR2G  
MC100EP16VCDT  
MC100EP16VCDTG  
MC100EP16VCDTR2  
MC100EP16VCDTR2G  
MC100EP16VCMNR4G  
MC100EP16VSD  
MC100EP16VSDG  
MC100EP16VSDR2  
MC100EP16VSDR2G  
MC100EP16VSDT  
MC100EP16VSDTG  
MC100EP16VSDTR2  
MC100EP16VSDTR2G  
MC100EP16VSMNR4G  
MC100EP16VTD  
MC100EP16VTDG  
MC100EP16VTDR2  
MC100EP16VTDR2G  
MC100EP16VTDT  
MC100EP16VTDTG  
MC100EP16VTDTR2  
MC100EP16VTDTR2G  
MC100EP16VTMNR4G  
MC100EP17DT  
MC100EP17DTG  
MC100EP17DTR2  
MC100EP17DTR2G  
MC100EP17DW  
MC100EP17DWG  
MC100EP17DWR2  
MC100EP17DWR2G  
MC100EP17MNG  
MC100EP17MNTXG  
MC100EP195BFAG  
MC100EP195BFAR2G  
MC100EP195BMNG  
MC100EP195BMNR4G  
MC100EP195FA





**Initial Product/Process Change Notification # 16115**

MC100EP195FAG  
MC100EP195FAR2  
MC100EP195FAR2G  
MC100EP195MNG  
MC100EP195MNR4G  
MC100EP196BFAG  
MC100EP196BFAR2G  
MC100EP196BMNG  
MC100EP196BMNR4G  
MC100EP196FA  
MC100EP196FAG  
MC100EP196FAR2  
MC100EP196FAR2G  
MC100EP210SFA  
MC100EP210SFAG  
MC100EP210SFAR2  
MC100EP210SFAR2G  
MC100EP210SMNG  
MC100EP210SMNR4G  
MC100EP29DT  
MC100EP29DTG  
MC100EP29DTR2  
MC100EP29DTR2G  
MC100EP29MNG  
MC100EP29MNTXG  
MC100EP31D  
MC100EP31DG  
MC100EP31DR2  
MC100EP31DR2G  
MC100EP31DT  
MC100EP31DTG  
MC100EP31DTR2  
MC100EP31DTR2G  
MC100EP31MNR4G  
MC100EP32D  
MC100EP32DG  
MC100EP32DR2  
MC100EP32DR2G  
MC100EP32DT  
MC100EP32DTG  
MC100EP32DTR2  
MC100EP32DTR2G  
MC100EP32MNR4  
MC100EP32MNR4G  
MC100EP33D  
MC100EP33DG  
MC100EP33DR2  
MC100EP33DR2G  
MC100EP33DT  
MC100EP33DTG  
MC100EP33DTR2  
MC100EP33DTR2G  
MC100EP33MNR4  
MC100EP33MNR4G  
MC100EP35D  
MC100EP35DR2



**Initial Product/Process Change Notification # 16115**

MC100EP35DR2G  
MC100EP35DT  
MC100EP35DTG  
MC100EP35DTR2  
MC100EP35DTR2G  
MC100EP35MNR4G  
MC100EP40DT  
MC100EP40DTG  
MC100EP40DTR2  
MC100EP40DTR2G  
MC100EP445FA  
MC100EP445FAG  
MC100EP445FAR2  
MC100EP445FAR2G  
MC100EP445MNG  
MC100EP445MNR4G  
MC100EP446FA  
MC100EP446FAG  
MC100EP446FAR2  
MC100EP446FAR2G  
MC100EP446MNG  
MC100EP446MNR4G  
MC100EP451FA  
MC100EP451FAG  
MC100EP451FAR2  
MC100EP451FAR2G  
MC100EP451MNG  
MC100EP451MNR4G  
MC100EP51D  
MC100EP51DG  
MC100EP51DR2  
MC100EP51DR2G  
MC100EP51DT  
MC100EP51DTG  
MC100EP51DTR2  
MC100EP51DTR2G  
MC100EP51MNR4G  
MC100EP52D  
MC100EP52DG  
MC100EP52DR2  
MC100EP52DR2G  
MC100EP52DT  
MC100EP52DTG  
MC100EP52DTR2  
MC100EP52DTR2G  
MC100EP52MNR4G  
MC100EP56DT  
MC100EP56DTG  
MC100EP56DTR2  
MC100EP56DTR2G  
MC100EP56DW  
MC100EP56DWG  
MC100EP56DWR2  
MC100EP56DWR2G  
MC100EP56MNG  
MC100EP56MNTXG



**Initial Product/Process Change Notification # 16115**

MC100EP57DT  
MC100EP57DTG  
MC100EP57DTR2  
MC100EP57DTR2G  
MC100EP57MNG  
MC100EP57MNR4G  
MC100EP57MNTXG  
MC100EP58D  
MC100EP58DG  
MC100EP58DR2  
MC100EP58DR2G  
MC100EP58DT  
MC100EP58DTG  
MC100EP58DTR2  
MC100EP58DTR2G  
MC100EP58MNR4G  
MC100EP809FA  
MC100EP809FAG  
MC100EP809FAR2  
MC100EP809FAR2G  
MC100EP809MNG  
MC100EP809MNR4G  
MC100EP90DT  
MC100EP90DTG  
MC100EP90DTR2  
MC100EP90DTR2G  
MC100EP90MNG  
MC100EP90MNR4G  
MC100EP91DW  
MC100EP91DWG  
MC100EP91DWR2  
MC100EP91DWR2G  
MC100EP91MN  
MC100EP91MNG  
MC100EP91MNR2  
MC100EP91MNR2G  
MC100EPT20D  
MC100EPT20DG  
MC100EPT20DR2  
MC100EPT20DR2G  
MC100EPT20DT  
MC100EPT20DTG  
MC100EPT20DTR2  
MC100EPT20DTR2G  
MC100EPT20MNR4  
MC100EPT20MNR4G  
MC100EPT22D  
MC100EPT22DG  
MC100EPT22DR2  
MC100EPT22DR2G  
MC100EPT22DT  
MC100EPT22DTG  
MC100EPT22DTR2  
MC100EPT22DTR2G  
MC100EPT22MNR4G  
MC100EPT622FA



**Initial Product/Process Change Notification # 16115**

MC100EPT622FAG  
MC100EPT622FAR2  
MC100EPT622FAR2G  
MC100EPT622MNG  
MC100EPT622MNR4G  
MC100LVEP05DG  
MC100LVEP05DR2G  
MC100LVEP05DTG  
MC100LVEP05DTR2G  
MC100LVEP05MNTXG  
MC100LVEP111FA  
MC100LVEP111FAG  
MC100LVEP111FAR2  
MC100LVEP111FARG  
MC100LVEP111MNG  
MC100LVEP111MNRG  
MC100LVEP11D  
MC100LVEP11DG  
MC100LVEP11DR2  
MC100LVEP11DR2G  
MC100LVEP11DT  
MC100LVEP11DTG  
MC100LVEP11DTR2  
MC100LVEP11DTR2G  
MC100LVEP11MNR4  
MC100LVEP11MNR4G  
MC100LVEP14DT  
MC100LVEP14DTG  
MC100LVEP14DTR2  
MC100LVEP14DTR2G  
MC100LVEP16D  
MC100LVEP16DG  
MC100LVEP16DR2  
MC100LVEP16DR2G  
MC100LVEP16DT  
MC100LVEP16DTG  
MC100LVEP16DTR2  
MC100LVEP16DTR2G  
MC100LVEP16MNR4  
MC100LVEP16MNR4G  
MC100LVEP17DT  
MC100LVEP17DTG  
MC100LVEP17DTR2  
MC100LVEP17DTR2G  
MC100LVEP17MN  
MC100LVEP17MNG  
MC100LVEP17MNR2  
MC100LVEP17MNR2G  
MC100LVEP210FA  
MC100LVEP210FAG  
MC100LVEP210FAR2  
MC100LVEP210FARG  
MC100LVEP210MNG  
MC100LVEP210MNRG  
MC100LVEP34D  
MC100LVEP34DG



**Initial Product/Process Change Notification # 16115**

MC100LVEP34DR2  
MC100LVEP34DR2G  
MC100LVEP34DT  
MC100LVEP34DTG  
MC100LVEP34DTR2  
MC100LVEP34DTR2G  
MC100LVEP56DT  
MC100LVEP56DTG  
MC100LVEP56DTR2  
MC100LVEP56DTR2G  
MC100LVEP56MN  
MC100LVEP56MNG  
MC100LVEP56MNR2  
MC100LVEP56MNR2G  
MC100LVEP91DW  
MC100LVEP91DWG  
MC100LVEP91DWR2  
MC100LVEP91DWR2G  
MC100LVEP91MN  
MC100LVEP91MNG  
MC100LVEP91MNR2  
MC100LVEP91MNR2G  
MC10EP016FA  
MC10EP016FAG  
MC10EP016FAR2  
MC10EP016FAR2G  
MC10EP01D  
MC10EP01DG  
MC10EP01DR2  
MC10EP01DR2G  
MC10EP01DT  
MC10EP01DTG  
MC10EP01DTR2  
MC10EP01DTR2G  
MC10EP01MNR4G  
MC10EP05D  
MC10EP05DG  
MC10EP05DR2  
MC10EP05DR2G  
MC10EP05DT  
MC10EP05DTG  
MC10EP05DTR2  
MC10EP05DTR2G  
MC10EP08D  
MC10EP08DG  
MC10EP08DR2  
MC10EP08DR2G  
MC10EP08DT  
MC10EP08DTG  
MC10EP08DTR2  
MC10EP08DTR2G  
MC10EP08MNR4G  
MC10EP101FA  
MC10EP101FAG  
MC10EP101FAR2  
MC10EP101FAR2G



**Initial Product/Process Change Notification # 16115**

MC10EP101MNG  
MC10EP101MNR4G  
MC10EP105FA  
MC10EP105FAG  
MC10EP105FAR2  
MC10EP105FAR2G  
MC10EP105MNG  
MC10EP105MNR4G  
MC10EP116FA  
MC10EP116FAG  
MC10EP116FAR2  
MC10EP116FAR2G  
MC10EP11D  
MC10EP11DG  
MC10EP11DR2  
MC10EP11DR2G  
MC10EP11DT  
MC10EP11DTG  
MC10EP11DTR2  
MC10EP11DTR2G  
MC10EP131FA  
MC10EP131FAG  
MC10EP131FAR2  
MC10EP131FAR2G  
MC10EP131MNG  
MC10EP131MNR4G  
MC10EP139DT  
MC10EP139DTG  
MC10EP139DTR2  
MC10EP139DTR2G  
MC10EP139DW  
MC10EP139DWG  
MC10EP139DWR2  
MC10EP139DWR2G  
MC10EP142FA  
MC10EP142FAG  
MC10EP142FAR2  
MC10EP142FAR2G  
MC10EP142MNG  
MC10EP142MNR4G  
MC10EP16D  
MC10EP16DG  
MC10EP16DR2  
MC10EP16DR2G  
MC10EP16DT  
MC10EP16DTG  
MC10EP16DTR2  
MC10EP16DTR2G  
MC10EP16MNR4G  
MC10EP16TD  
MC10EP16TDG  
MC10EP16TDR2  
MC10EP16TDR2G  
MC10EP16TDT  
MC10EP16TDG  
MC10EP16TDTR2



**Initial Product/Process Change Notification # 16115**

MC10EP16TDTR2G  
MC10EP16TMNR4G  
MC10EP16VAD  
MC10EP16VADG  
MC10EP16VADR2  
MC10EP16VADR2G  
MC10EP16VADT  
MC10EP16VADTG  
MC10EP16VADTR2  
MC10EP16VADTR2G  
MC10EP16VAMNR4G  
MC10EP17DT  
MC10EP17DTG  
MC10EP17DTR2  
MC10EP17DTR2G  
MC10EP17DW  
MC10EP17DWG  
MC10EP17DWR2  
MC10EP17DWR2G  
MC10EP17MNG  
MC10EP17MNTXG  
MC10EP195FA  
MC10EP195FAG  
MC10EP195FAR2  
MC10EP195FAR2G  
MC10EP195MNG  
MC10EP195MNR4G  
MC10EP29DT  
MC10EP29DTG  
MC10EP29DTR2  
MC10EP29DTR2G  
MC10EP29MNG  
MC10EP29MNTXG  
MC10EP31D  
MC10EP31DG  
MC10EP31DR2  
MC10EP31DR2G  
MC10EP31DT  
MC10EP31DTG  
MC10EP31DTR2  
MC10EP31DTR2G  
MC10EP31MNR4G  
MC10EP32D  
MC10EP32DG  
MC10EP32DR2  
MC10EP32DR2G  
MC10EP32DT  
MC10EP32DTG  
MC10EP32DTR2  
MC10EP32DTR2G  
MC10EP32MNR4G  
MC10EP33D  
MC10EP33DG  
MC10EP33DR2  
MC10EP33DR2G  
MC10EP33DT



**Initial Product/Process Change Notification # 16115**

MC10EP33DTG  
MC10EP33DTR2  
MC10EP33DTR2G  
MC10EP33MNR4G  
MC10EP35D  
MC10EP35DG  
MC10EP35DG  
MC10EP35DR2  
MC10EP35DR2G  
MC10EP35DT  
MC10EP35DTG  
MC10EP35DTR2  
MC10EP35DTR2G  
MC10EP35MNR4G  
MC10EP445FA  
MC10EP445FAG  
MC10EP445FAR2  
MC10EP445FAR2G  
MC10EP445MNG  
MC10EP445MNR4G  
MC10EP446FA  
MC10EP446FAG  
MC10EP446FAR2  
MC10EP446FAR2G  
MC10EP446MNG  
MC10EP446MNR4G  
MC10EP451FA  
MC10EP451FAG  
MC10EP451FAR2  
MC10EP451FAR2G  
MC10EP451MNG  
MC10EP451MNR4G  
MC10EP51D  
MC10EP51DG  
MC10EP51DR2  
MC10EP51DR2G  
MC10EP51DT  
MC10EP51DTG  
MC10EP51DTR2  
MC10EP51DTR2G  
MC10EP51MNR4G  
MC10EP52D  
MC10EP52DG  
MC10EP52DR2  
MC10EP52DR2G  
MC10EP52DT  
MC10EP52DTG  
MC10EP52DTR2  
MC10EP52DTR2G  
MC10EP52MNR4G  
MC10EP56DT  
MC10EP56DTG  
MC10EP56DTR2  
MC10EP56DTR2G  
MC10EP56MNG  
MC10EP56MNTXG





**Initial Product/Process Change Notification # 16115**

MC10EP57DT  
MC10EP57DTG  
MC10EP57DTR2  
MC10EP57DTR2G  
MC10EP57MNG  
MC10EP57MNTXG  
MC10EP58D  
MC10EP58DG  
MC10EP58DR2  
MC10EP58DR2G  
MC10EP58DT  
MC10EP58DTG  
MC10EP58DTR2  
MC10EP58DTR2G  
MC10EP58MNR4G  
MC10EP89D  
MC10EP89DG  
MC10EP89DR2  
MC10EP89DR2G  
MC10EP89DT  
MC10EP89DTG  
MC10EP89DTR2  
MC10EP89DTR2G  
MC10EP89MNR4G  
MC10EP90DT  
MC10EP90DTG  
MC10EP90DTR2  
MC10EP90DTR2G  
MC10EP90MNG  
MC10EP90MNR4G  
MC10EPT20D  
MC10EPT20DG  
MC10EPT20DR2  
MC10EPT20DR2G  
MC10EPT20DT  
MC10EPT20DTG  
MC10EPT20DTR2  
MC10EPT20DTR2G  
MC10EPT20MNR4G  
MC10LVEP11D  
MC10LVEP11DG  
MC10LVEP11DR2  
MC10LVEP11DR2G  
MC10LVEP11DT  
MC10LVEP11DTG  
MC10LVEP11DTR2  
MC10LVEP11DTR2G  
MC10LVEP11MNR4G  
MC10LVEP16D  
MC10LVEP16DG  
MC10LVEP16DR2  
MC10LVEP16DR2G  
MC10LVEP16DT  
MC10LVEP16DTG  
MC10LVEP16DTR2  
MC10LVEP16DTR2G



**Initial Product/Process Change Notification # 16115**

MC10SX1190DT  
MC10SX1190DTG  
MC10SX1190DTR2G  
MC10SX1190MNG  
MC10SX1190MNR4G  
MC12079D  
MC12079DG  
MC12079DR2  
MC12079DR2G  
MC12093D  
MC12093DG  
MC12093DR2  
MC12093DR2G  
MC12093MNR4G  
NB100EP223FA  
NB100EP223FAG  
NB100EP223FAR2  
NB100EP223FAR2G  
NB100LVEP221FA  
NB100LVEP221FAG  
NB100LVEP221FAR2  
NB100LVEP221FARG  
NB100LVEP221MNG  
NB100LVEP221MNRG  
NB100LVEP222FA  
NB100LVEP222FAG  
NB100LVEP222FAR2  
NB100LVEP222FARG  
NB100LVEP222MNG  
NB100LVEP222MNRG  
NB100LVEP224FA  
NB100LVEP224FAG  
NB100LVEP224FAR2  
NB100LVEP224FARG  
NB4L16MMN  
NB4L16MMNG  
NB4L16MMNR2  
NB4L16MMNR2G  
NB4L339MNG  
NB4L339MNR4G  
NB4L52MNG  
NB4L52MNR2G  
NB4L6254FAG  
NB4L6254FAR2G  
NB4L7210MNG  
NB4L7210MNTXG  
NB4L858MFAG  
NB4L858MFAR2G  
NB4N11MDT  
NB4N11MDTG  
NB4N11MDTR2  
NB4N11MDTR2G  
NB4N316MDTG  
NB4N316MDTR2G  
NB4N441MNG  
NB4N441MNR2G



**Initial Product/Process Change Notification # 16115**

NB4N507AD  
NB4N507ADG  
NB4N507ADR2  
NB4N507ADR2G  
NB4N527SMN  
NB4N527SMNG  
NB4N527SMNR2  
NB4N527SMNR2G  
NB4N7132DTG  
NB4N7132DTR2G  
NB4N840MMNG  
NB4N840MMNR4G  
NB6L11MMNG  
NB6L11MMNR2G  
NB6L11SMNG  
NB6L11SMNR2G  
NB6L14MMNG  
NB6L14MMNR2G  
NB6L14MNG  
NB6L14MNR2G  
NB6L295MMNG  
NB6L295MMNTXG  
NB6L295MNG  
NB6L295MNTXG  
NB6L527SMNG  
NB6L527SMNR2G  
NB6L611MNG  
NB6L611MNR2G  
NB6L72MMNG  
NB6L72MMNR2G  
NB6L72MNG  
NB6L72MNR2G  
NB6N11HMDTG  
NB6N11HMDTR2G  
NB6N11SMNG  
NB6N11SMNR2G  
NB6N14SMNG  
NB6N14SMNR2G  
NBC12429AFA  
NBC12429AFAG  
NBC12429AFAR2  
NBC12429AFAR2G  
NBC12429AFN  
NBC12429AFNG  
NBC12429AFNR2  
NBC12429AFNR2G  
NBC12429AMNG  
NBC12429AMNR4G  
NBC12429FA  
NBC12429FAG  
NBC12429FAR2  
NBC12429FAR2G  
NBC12429FN  
NBC12429FNG  
NBC12429FNR2  
NBC12429FNR2G



**Initial Product/Process Change Notification # 16115**

NBC12430AFA  
NBC12430AFAG  
NBC12430AFAR2  
NBC12430AFAR2G  
NBC12430AFN  
NBC12430AFNG  
NBC12430AFNR2  
NBC12430AFNR2G  
NBC12430AMNG  
NBC12430AMNR4G  
NBC12430FA  
NBC12430FAG  
NBC12430FAR2  
NBC12430FAR2G  
NBC12430FN  
NBC12430FNG  
NBC12430FNR2  
NBC12430FNR2G  
NBC12439AFA  
NBC12439AFAG  
NBC12439AFAR2  
NBC12439AFAR2G  
NBC12439AFN  
NBC12439AFNG  
NBC12439AFNR2  
NBC12439AFNR2G  
NBC12439AMNG  
NBC12439AMNR4G  
NBC12439FA  
NBC12439FAG  
NBC12439FAR2  
NBC12439FAR2G  
NBC12439FN  
NBC12439FNG  
NBC12439FNR2  
NBC12439FNR2G  
SB99026MNG  
SB99026MNR2G