



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION

21-Oct-2008

SUBJECT: ON Semiconductor Final Product/Process Change Notification # 16161

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

PROPOSED FIRST SHIP DATE: 21-Jan-2009

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 Eric Rupnow <e.rupnow@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Initial product change notification was 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 this Final Product/Process Change Notification (FPCN) and will allow 90 days prior to implementation of 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:

This is the FPCN to IPCN16115 available at www.onsemi.com ON Semiconductor.

In order to continue to support our customer's requirements for M35 and 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



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QUALIFICATION PLAN:

Product Qualification Vehicles

The product qualification vehicles should represent the broadest use of possible design library elements and available process modules. The minimum requirement is two devices.

Reliability testing was performed on qualification vehicles chosen based on die size, voltage rating, and run rates. The following qualification vehicles were selected for this qualification.

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

Extrinsic Reliability Results:

M 5 REL RESULTS

HTOL	High Temp Op Life	Ta=125C	504 hours	0/240
HTSL	High Temp Storage	Ta=150C	504 hours	0/240
HAST + preconditioning				
	Highly Accel Stress Test	Ta=130C, RH=85%, psig=~18.8 + bias	96 hours	0/240
TEMP Cycle + PC		Ta= -65C to +150C	500 cycles	0/240
Autoclave + PC				
		Ta= 121C, RH=100%, psig ~14.7	96 hours	0/240

M 3.5 REL RESULTS

HTOL	High Temp Op Life	Ta=125C	504 hours	0/240
HTSL	High Temp Storage	Ta=150C	504 hours	0/240
HAST + preconditioning				
	Highly Accel Stress Test	Ta=130C, RH=85%, psig=~18.8 + bias	96 hours	0/240
TEMP Cycle + PC		Ta= -65C to +150C	500 cycles	0/240
Autoclave + PC				
		Ta= 121C, RH=100%, psig ~14.7	96 hours	0/240

Characterization Results:

DC,AC, ESD, and Latch-up testing has been performed on representative qualification vehicles and compared to historical data for each device. Characterization results on all qualification devices matched historical data. Characterization results are available for review upon request.



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AFFECTED DEVICES :

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



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MC100E143FNR2G
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



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MC100E451FNG
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



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MC10E151FN
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



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MC10E212FN
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



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MC100LVEL29DWG
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



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MC100EL04DT
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



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MC100EL32DR2G
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



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MC100EL15D
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



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MC100E137FNR2G
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



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MC100LVEL16D
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



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MC100LVELT22DTR2G
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



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MC100EP116FA
MC100EP116FAG
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



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MC100EP16VADG
MC100EP16VADR2
MC100EP16VADR2G
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



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MC100EP195BFAR2G
MC100EP195BMNG
MC100EP195BMNR4G
MC100EP195FA
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



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MC100EP33DTR2G
MC100EP33MNR4
MC100EP33MNR4G
MC100EP35D
MC100EP35DR2
MC100EP35DR2G
MC100EP35DT
MC100EP35DTG
MC100EP35DTR2
MC100EP35DTR2G
MC100EP35MNR4G
MC100EP40DT
MC100EP40DTG
MC100EP40DTR2
MC100EP40DTR2G
MC100EP445FA
MC100EP445FAG
MC100EP445FAR2
MC100EP445FAR2G
MC100EP445MNG
MC100EP445MNR4G
MC100EP446FA
MC100EP446FAG
MC100EP446FAR2
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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



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MC100EP56DW
MC100EP56DWG
MC100EP56DWR2
MC100EP56DWR2G
MC100EP56MNG
MC100EP56MNTXG
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



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MC100EPT22DR2G
MC100EPT22DT
MC100EPT22DTG
MC100EPT22DTR2
MC100EPT22DTR2G
MC100EPT22MNR4G
MC100EPT622FA
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



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MC100LVEP210FA
MC100LVEP210FAG
MC100LVEP210FAR2
MC100LVEP210FARG
MC100LVEP210MNG
MC100LVEP210MNRG
MC100LVEP34D
MC100LVEP34DG
MC100LVEP34DR2
MC100LVEP34DR2G
MC100LVEP34DT
MC100LVEP34DTG
MC100LVEP34DTR2
MC100LVEP34DTR2G
MC100LVEP56DT
MC100LVEP56DTG
MC100LVEP56DTR2
MC100LVEP56DTR2G
MC100LVEP56MN
MC100LVEP56MNG
MC100LVEP56MNR2
MC100LVEP56MNR2G
MC100LVEP91DW
MC100LVEP91DWG
MC100LVEP91DWR2
MC100LVEP91DWR2G
MC100LVEP91MN
MC100LVEP91MNG
MC100LVEP91MNR2
MC100LVEP91MNR2G
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MC10EP016FAG
MC10EP016FAR2
MC10EP016FAR2G
MC10EP01D
MC10EP01DG
MC10EP01DR2
MC10EP01DR2G
MC10EP01DT
MC10EP01DTG
MC10EP01DTR2
MC10EP01DTR2G
MC10EP01MNR4G
MC10EP05D
MC10EP05DG
MC10EP05DR2
MC10EP05DR2G
MC10EP05DT
MC10EP05DTG
MC10EP05DTR2
MC10EP05DTR2G
MC10EP08D
MC10EP08DG
MC10EP08DR2
MC10EP08DR2G



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MC10EP08DT
MC10EP08DTG
MC10EP08DTR2
MC10EP08DTR2G
MC10EP08MNR4G
MC10EP101FA
MC10EP101FAG
MC10EP101FAR2
MC10EP101FAR2G
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



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MC10EP16DTR2
MC10EP16DTR2G
MC10EP16MNR4G
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MC10EP16TDR2
MC10EP16TDR2G
MC10EP16TDT
MC10EP16TDTG
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MC10EP16TDTR2G
MC10EP16TMNR4G
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MC10EP16VADR2
MC10EP16VADR2G
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MC10EP16VADTG
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MC10EP16VADTR2G
MC10EP16VAMNR4G
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MC10EP17DTR2
MC10EP17DTR2G
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MC10EP17DWR2G
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MC10EP17MNTXG
MC10EP195FA
MC10EP195FAG
MC10EP195FAR2
MC10EP195FAR2G
MC10EP195MNG
MC10EP195MNR4G
MC10EP29DT
MC10EP29DTG
MC10EP29DTR2
MC10EP29DTR2G
MC10EP29MNG
MC10EP29MNTXG
MC10EP31D
MC10EP31DG
MC10EP31DR2
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MC10EP31DT
MC10EP31DTG
MC10EP31DTR2
MC10EP31DTR2G
MC10EP31MNR4G
MC10EP32D
MC10EP32DG
MC10EP32DR2



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MC10EP32DR2G
MC10EP32DT
MC10EP32DTG
MC10EP32DTR2
MC10EP32DTR2G
MC10EP32MNR4G
MC10EP33D
MC10EP33DG
MC10EP33DR2
MC10EP33DR2G
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MC10EP51DT
MC10EP51DTG
MC10EP51DTR2
MC10EP51DTR2G
MC10EP51MNR4G
MC10EP52D
MC10EP52DG
MC10EP52DR2



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MC10EP52DR2G
MC10EP52DT
MC10EP52DTG
MC10EP52DTR2
MC10EP52DTR2G
MC10EP52MNR4G
MC10EP56DT
MC10EP56DTG
MC10EP56DTR2
MC10EP56DTR2G
MC10EP56MNG
MC10EP56MNTXG
MC10EP57DT
MC10EP57DTG
MC10EP57DTR2
MC10EP57DTR2G
MC10EP57MNG
MC10EP57MNTXG
MC10EP58D
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MC10EP58DTR2
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MC10EPT20DTR2
MC10EPT20DTR2G
MC10EPT20MNR4G
MC10LVEP11D
MC10LVEP11DG
MC10LVEP11DR2
MC10LVEP11DR2G



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MC10LVEP11DT
MC10LVEP11DTG
MC10LVEP11DTR2
MC10LVEP11DTR2G
MC10LVEP11MNR4G
MC10LVEP16D
MC10LVEP16DG
MC10LVEP16DR2
MC10LVEP16DR2G
MC10LVEP16DT
MC10LVEP16DTG
MC10LVEP16DTR2
MC10LVEP16DTR2G
MC10SX1190DT
MC10SX1190DTG
MC10SX1190DTR2G
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MC12079DG
MC12079DR2
MC12079DR2G
MC12093D
MC12093DG
MC12093DR2
MC12093DR2G
MC12093MNR4G
NB100EP223FA
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NB100EP223FAR2
NB100EP223FAR2G
NB100LVEP221FA
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NB4L16MMN
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NB4L339MNG
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NB4L52MNG
NB4L52MNR2G



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NB4L6254FAG
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NB4N316MDTG
NB4N316MDTR2G
NB4N441MNG
NB4N441MNR2G
NB4N507AD
NB4N507ADG
NB4N507ADR2
NB4N507ADR2G
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NB4N527SMNG
NB4N527SMNR2
NB4N527SMNR2G
NB4N7132DTG
NB4N7132DTR2G
NB4N840MMNG
NB4N840MMNR4G
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NB6L11SMNR2G
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NB6L14MNG
NB6L14MNR2G
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NB6L295MNTXG
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NBC12429AFA
NBC12429AFAG
NBC12429AFAR2



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NBC12429AFAR2G
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NBC12439AMNR4G
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