



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

24-Aug-2005

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #15005

**TITLE: Initial Notification - Qualification of the MAX809 MAX810
NCP803 on the AC MOS2 Technology**

EFFECTIVE DATE: 24-Oct-2005

AFFECTED CHANGE CATEGORY: Wafer Process

AFFECTED PRODUCT DIVISION: Analog Power Management

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Office or Christelle Gioia <r43164@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPC N)

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 and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 60 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

This is the Initial Product Change Notification announcing the qualification and redesign of the MAX809, MAX810, and NCP803 on the previously qualified AC MOS2 technology process at ON Semiconductors MOS7A facility.

Die fabrication will continue at the current wafer fab site, ON Semiconductor MOS7A, in Aizu, Japan.

Device performance and reliability will continue to meet or exceed ON Semiconductor standards.

**Initial Product/Process Change Notification #15005****QUALIFICATION PLAN:**

ACMOS2 technology was previously qualified. These devices will be qualified with 1 lot:

HTOL High Temp Op Life for 168 hrs. $T_j = 150^{\circ}\text{C}$, 80 units/lot,

TC -40°C to $+125^{\circ}\text{C}$ for 500 cycles, 80 units /lot,

UHAST $130^{\circ}\text{C}/85\%$ RH for 96 hrs, 80 units/lot,

ESD (MM,HBM), and U-Dynamic Latchup

Electrical Temperature characterization will also be completed.

AFFECTED DEVICE LIST:**PART**

MAX809SN160T1

MAX809SN160T1G

MAX809SN232T1

MAX809SN232T1G

MAX809SN490T1

MAX809SN490T1G

MAX809RTR

MAX809RTRG

MAX809STR

MAX809STRG

MAX809TTR

MAX809TTRG

MAX809JTR

MAX809JTRG

MAX809MTR

MAX809MTRG

MAX809HTR

MAX809HTRG

MAX809LTR

MAX809LTRG

MAX810RTR

MAX810RTRG

MAX810STR

MAX810STRG

MAX810TTR

MAX810TTRG

MAX810MTR

MAX810MTRG

MAX810LTR

MAX810LTRG

NCP803SN160T1

NCP803SN160T1G

NCP803SN232T1

NCP803SN232T1G

NCP803SN263T1

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NCP803SN263T1G
NCP803SN293T1
NCP803SN293T1G
NCP803SN293T3
NCP803SN293T3G
NCP803SN308T1
NCP803SN308T1G
NCP803SN438T1
NCP803SN438T1G
NCP803SN463T1
NCP803SN463T1G