



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

24-AUG-2004

SUBJECT: ON Semiconductor Final Product/Process Change Notification #13578

TITLE: Final PCN for Qualification of QFN 3X3MM (10-LD) at NSEB

EFFECTIVE DATE: 24-Oct-2004

AFFECTED CHANGE CATEGORY: Subcontractor Assembly Site

AFFECTED PRODUCT DIVISION:

Analog Products

Logic Products

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Representative or
Elizabeth Becker <R19517@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Representative
or Karen Oppen <FFBXP@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Representative or Karen Oppen <FFBXP@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 60 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:

This is a Final Product Change Notice to IPCN #13270, announcing that NS Electronics (NSEB), located in Bangkok, Thailand is qualified as a supplemental manufacturing source for ON Semiconductor's QFN 3x3mm (10-ld) (Quad Flat No-Lead) packages. Testing of these products will be performed by ON Semiconductor in the Seremban, Malaysia facility. NSEB has been building QFN packages for 2 years.

NSEB is certified to QS9000, ISO9002, ISO14001, and SAC Level 1. The affected QFN package was qualified to run specific devices that are currently processed in ON Semiconductor, Seremban, Malaysia and in ASAT, Hong Kong. This is a capacity expansion.



Final Product/Process Change Notification #13578

RELIABILITY DATA SUMMARY:

Reliability Test Results:

Qual Vehicle: 3 lots NCP1422MNR2 (Largest die size)

Preconditioning MSL Level 1, 260C 0 rej/720 units

Preconditioning-Autoclave (121C/100%RH/15PSIG) 96 hrs 0 rej/240 units

Preconditioning-Temperature Cycling (-65C to +150C) 1000 cycles 0 rej/240 units

ELECTRICAL CHARACTERISTIC SUMMARY:

All product performance meets current datasheet specifications.

CHANGED PART IDENTIFICATION:

Product manufactured after WW42,2004 may be manufactured at ON Semiconductor, ASAT, or NSEB.

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

NCP1422MNR2

NLAS4684MNR2

NLSF1174MNR2