



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

11-JUN-2004

SUBJECT: ON Semiconductor Final Product/Process Change Notification #13503

TITLE: Final PCN for Qualification of QFN 3X3MM at ON Seremban, Malaysia

EFFECTIVE DATE: 11-Aug-2004

AFFECTED CHANGE CATEGORY: ON Semiconductor 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 Dianne Von Borstel <R39140@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Representative or Shannon Riggs <R13350@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:

ON Semiconductor is pleased to announce expanded assembly capacity for 3x3mm QFN Analog and Logic products utilizing the ON Seremban, Malaysia facility. Testing of these products will be performed by ON Semiconductor in the Seremban, Malaysia facility. The affected devices are currently manufactured in ASAT, Hong Kong. After expiration of this PCN, the devices listed below may be assembled at either manufacturing location.



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RELIABILITY DATA SUMMARY:

Reliability Test Results:

Qual Vehicle: 3 Lots NCP1422MN (Largest die size)
Preconditioning MSL Level 1, 260C 0 rej/693 units
Preconditioning-Autoclave (121C/100%RH/15PSIG) 96 hrs 0 rej/231 units
Preconditioning-HAST (130C/85%RH/18.8PSIG) 96 hrs 0 rej/231 units
Preconditioning-Temperature Cycling (-65 to +150C) 1000 cycles 0 rej/231 units
Preconditioning-SAT 0 rej/15 units

Qual Vehicle: 3 Lots NLAS4599MN
Resistance to Solder Heat (260C, 10 sec) 0 rej/90 units Solderability (8 hrs steam age) 0 rej/45 units

ELECTRICAL CHARACTERISTIC SUMMARY:

All product performance meets current datasheet specifications.

CHANGED PART IDENTIFICATION:

Product manufactured after WW31, 2004 may be manufactured at either assembly location.
Site code traceability will be maintained.

AFFECTED DEVICE LIST :

PART

NCP1421MNR2
NCP1422MNR2
NLAS4684MNR2
NLSF1174MNR2