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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**Internal FYI Copy

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**21 Jan 2008****SUBJECT: ON Semiconductor Final Product/Process Change Notification #16092****TITLE: Final PCN for Qualification of SC88A / SC70-5 at ON Seremban****PROPOSED FIRST SHIP DATE: 14 Apr 2008****AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Site****AFFECTED PRODUCT DIVISION(S): Analog Product Regulation Group****FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or Bett.Lofts <[Beatriz.Lofts@onsemi.com](mailto:Beatriz.Lofts@onsemi.com)>**SAMPLES:** Contact your local ON Semiconductor Sales Office**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or Matt.Kas <[Matt.Kas@onsemi.com](mailto:Matt.Kas@onsemi.com)>**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued 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:**This is a Final PCN (Product Change Notice) to notify customers that the changes described in PCN#15749 have been completed for the listed devices. The Initial PCN can be found at [www.onsemi.com](http://www.onsemi.com).

ON Semiconductor is pleased to announce that the SC88A / SC70-5 package is now qualified to be assembled in ON Semiconductor, Seremban, Malaysia. The devices listed under the "Affected Device List" can be assembled in ON Semiconductor facility in Seremban, Malaysia or the current qualified assembly site, ATP ( Amkor, located in Philippines) upon the expiration of the FPCN.

There will be no changes in device functionality, case outline, or footprint. Reliability will continue to meet or exceed ON Semiconductor's highest standards.

Any new devices or derivatives package from same SC88A/SC70-5 platform released after the expiration of this FPCN will be qualified for assembly in both ATP and ON Semiconductor, Seremban.

**Final Product/Process Change Notification #16092****RELIABILITY DATA SUMMARY:****Reliability Test Results:**

<b>Test</b>	<b>Description</b>	<b>Conditions</b>	<b>Results</b>
AC-PC	Autoclave- MSL1	121°C/100% RH/15 96hrs	0 reject / 77 units; 0 reject / 77 units; 0 reject / 77 units;
TC-PC	Temperature Cycle- MSL1	-65C to +150C 500cyl	0 reject / 77 units; 0 reject / 77 units; 0 reject / 77 units;
HAST	High Accel Stress MSL1 Preconditioning	TA= +130C, RH = 85%, 96 hrs	0 reject / 77 units; 0 reject / 77 units; 0 reject / 77 units;
HTOL	High Temp Op Life	125DegC, 1008hrs	0 reject / 77 units; 0 reject / 77 units; 0 reject / 77 units;
HTSL	High Temp Storage Life	150DegC, 1000hrs	0 reject / 77 units; 0 reject / 77 units; 0 reject / 77 units;
SD	Solderability	TA= 245 C	0 reject / 20 units
SAT	Scanning Acoustic Tomography	MSL1– 260C Preconditioning	0 reject / 30 units

**ELECTRICAL CHARACTERISTIC SUMMARY:**

All products' performance meets current datasheet specifications.

**CHANGED PART IDENTIFICATION:**

Products manufactured after the FPCN expiration date can be manufactured at either ATP or ON Semiconductor Seremban location. Assembly location code will be maintained for traceability.

**AFFECTED DEVICE LIST**

NCP502SQ15T1  
NCP502SQ15T1G  
NCP502SQ18T1  
NCP502SQ18T1G  
NCP502SQ25T1  
NCP502SQ25T1G  
NCP502SQ27T1  
NCP502SQ27T1G  
NCP502SQ28T1  
NCP502SQ28T1G  
NCP502SQ29T1G  
NCP502SQ30T1  
NCP502SQ30T1G  
NCP502SQ31T1G  
NCP502SQ33T1  
NCP502SQ33T1G  
NCP502SQ34T1G  
NCP502SQ35T1  
NCP502SQ35T1G  
NCP502SQ36T1G  
NCP502SQ37T1G  
NCP502SQ50T1  
NCP502SQ50T1G  
NCP512SQ13T1G  
NCP512SQ15T1  
NCP512SQ15T1G  
NCP512SQ18T1  
NCP512SQ18T1G  
NCP512SQ22T1G  
NCP512SQ25T1  
NCP512SQ25T1G  
NCP512SQ27T1  
NCP512SQ27T1G  
NCP512SQ28T1  
NCP512SQ28T1G  
NCP512SQ30T1  
NCP512SQ30T1G  
NCP512SQ31T1  
NCP512SQ31T1G  
NCP512SQ33T1  
NCP512SQ33T1G  
NCP512SQ50T1  
NCP512SQ50T1G  
NCP612SQ15T1  
NCP612SQ15T1G  
NCP612SQ18T1  
NCP612SQ18T1G  
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NCP612SQ27T1  
NCP612SQ27T1G  
NCP612SQ28T1  
NCP612SQ28T1G

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NCP612SQ30T1  
NCP612SQ30T1G  
NCP612SQ31T1  
NCP612SQ31T1G  
NCP612SQ33T1  
NCP612SQ33T1G  
NCP612SQ37T1G  
NCP612SQ50T1  
NCP612SQ50T1G  
NCV612SQ15T1  
NCV612SQ15T1G  
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NCV612SQ33T1  
NCV612SQ33T1G  
NCV612SQ50T1  
NCV612SQ50T1G  
NCS2001SQ1T2  
NCS2001SQ1T2G  
NCS2001SQ2T2  
NCS2001SQ2T2G