



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20106

Generic Copy

Issue Date: 12-Jun-2013

TITLE: NCP380 TSOP5/6 Copper Wire Qualification

PROPOSED FIRST SHIP DATE: 12-Sep-2013

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Manufacturing Assembly

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or <todd.manes@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or <ken.fergus@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 <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

This FPCN is to announce the qualification of Copper wire (in place of Gold wire) on the NCP380 TSOP5 and TSOP6 parts assembled in the Seremban, Malaysia assembly location. Reliability qualification and full electrical characterization has now been completed on the designated package qualification vehicle.



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RELIABILITY DATA SUMMARY:

Reliability Test Results: (qualification vehicle NCP380HSNAJAAT1G)

Test	Conditions	Results		
		<u>Lot A</u>	<u>Lot B</u>	<u>Lot C</u>
Pre-conditioning	MSL-1			
Autoclave	Ta=121C, RH=100% Pressure=15psi; 96 hours	0/84	0/84	0/84
HAST	Ta=130C, RH=85% Pressure=18.8PSI; 192 hours	0/91	0/91	0/91
HTSL	Ta=150C; 1008 hours	0/94	0/94	0/94
TC	Ta=-65C to +150C; 500cyc	0/106	0/106	0/106
Resistance to solder heat	JESD22-B106 Temp=260C	0/30	0/30	0/30

ELECTRICAL CHARACTERISTIC SUMMARY:

There is no electrical characterization difference in products assembled with copper wire.

CHANGED PART IDENTIFICATION:

There will be no change in marking or appearance in products assembled with Copper wire in place of Gold wire. Products listed on this FPCN will have a marking date code representing work week 36, 2013 or later.



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List of affected General Parts:

NCP380HSN05AAT1G
NCP380HSN05AAT2G
NCP380HSN10AAT1G
NCP380HSNAJAAT1G
NCP380LSN05AAT1G
NCP380LSN10AAT1G