



## Final Product/Process Change Notification

Document #:FPCN24510X

Issue Date:16 Feb 2022

<b>Title of Change:</b>	UTL3 Assembly expansion for NCP8161x devices																																						
<b>Proposed First Ship date:</b>	23 May 2022 or earlier if approved by customer																																						
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Polen.Pitpit@onsemi.com">Polen.Pitpit@onsemi.com</a>																																						
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.																																						
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Shiela.Crosby@onsemi.com">Shiela.Crosby@onsemi.com</a>																																						
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>																																						
<b>Marking of Parts/ Traceability of Change:</b>	Date code																																						
<b>Change Category:</b>	Assembly Change																																						
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition																																						
<b>Sites Affected:</b>																																							
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>																																					
None		UTAC, Thailand																																					
<b>Description and Purpose:</b>																																							
This final notification is to inform customer the UTL3 Assembly expansion for NCP8161x devices.																																							
<table border="1"><thead><tr><th></th><th>Before Change Description</th><th>After Change Description</th></tr></thead><tbody><tr><td>Assembly Site</td><td>UTL1 (TH3)</td><td>UTL1 (TH3) / <b>UTL3 (TH6)</b></td></tr></tbody></table>						Before Change Description	After Change Description	Assembly Site	UTL1 (TH3)	UTL1 (TH3) / <b>UTL3 (TH6)</b>																													
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Assembly Site	UTL1 (TH3)	UTL1 (TH3) / <b>UTL3 (TH6)</b>																																					
<b>Reliability Data Summary:</b>																																							
QV DEVICE NAME: NCP81610AMNTXG																																							
RMS: O81466																																							
PACKAGE: QFN40 5x5, 0.4P																																							
<table border="1"><thead><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results</th></tr></thead><tbody><tr><td>HTOL</td><td>JESD22-A108</td><td>Ta=125°C, 100 % max rated Vcc</td><td>1008 hrs</td><td>0/80</td></tr><tr><td>HTSL</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>1008 hrs</td><td>0/80</td></tr><tr><td>TC</td><td>JESD22-A104</td><td>Ta= -65°C to +125°C</td><td>500 cyc</td><td>0/90</td></tr><tr><td>uHAST</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96hrs</td><td>0/80</td></tr><tr><td>PC</td><td>J-STD-020 JESD-A113</td><td>MSL 1 , 3x reflow @ 260°C</td><td></td><td>0/170</td></tr><tr><td>SD</td><td>JSTD002</td><td>Ta = 245C, 5 sec</td><td></td><td>0/15</td></tr></tbody></table>					Test	Specification	Condition	Interval	Results	HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/80	HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80	TC	JESD22-A104	Ta= -65°C to +125°C	500 cyc	0/90	uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/80	PC	J-STD-020 JESD-A113	MSL 1 , 3x reflow @ 260°C		0/170	SD	JSTD002	Ta = 245C, 5 sec		0/15
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<b>Electrical Characteristics Summary:</b>																																							
Electrical characteristics are not impacted.																																							



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### List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
NCP81611AMNTXG	NCP81610AMNTXG
NCP81610MNTXG	NCP81610AMNTXG
NCP81611MNTXG	NCP81610AMNTXG
NCP81610AMNTXG	NCP81610AMNTXG