



Initial Product/Process Change Notification

Document #: IPCN24751X

Issue Date: 29 Jun 2022

Title of Change:	Qualification of Tanaka 0.8mil Soft PCC wire for TSSOP HSL devices.	
Proposed First Ship date:	05 Nov 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Gretel.Ines@onsemi.com	
PCN Samples Contact:	<p>Contact your local onsemi Sales Office.</p> <p>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.</p> <p>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</p>	
Type of Notification:	<p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com></p>	
Marking of Parts/ Traceability of Change:	There will be no change on product marking.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Carmona, Philippines	None	
Description and Purpose:		
<p>This Initial Process Change Notification announces to onsemi customers that there will be a change in bond wire for HSL Logic products.</p> <p>The change is shown below.</p>		
	Before Change Description	After Change Description
Bond Wire	Heraeus 0.8 mil Bare Copper	Tanaka 0.8 mil Soft PCC
<p>There is no product marking change because of this change.</p>		



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Qualification Plan:

QV DEVICE NAME: NLV74HCT4051ADTR2G/NLVHC4851ADTR2G

RMS: RMS O84925 / O84927

PACKAGE: TSSOP 16

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	2016 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	

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
NLHV4051DTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4046BDTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC373ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC273ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT245ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC573ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT244ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC20ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC10ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC32ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC30ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC00ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT132ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT20ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT04ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC11ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCU04ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G



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MC74HC02ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT125ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4060ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT259ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4040ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT138ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4020ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC595ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC112ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC163ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4094ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74LV594ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4066ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74VHC4066DTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4053ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74VHC4053DTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4051ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT4051ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4052ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74VHC4052DTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74VHC4051DTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
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M74HCT4052ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4053ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4066ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4851ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
M74HCT4852ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC03ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC04ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC160ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC595ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC589ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC574ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC573ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G



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MC74HC541ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC541ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC540ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4852ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT86ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT595ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT595ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT574ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT573ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT541ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT374ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT373ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT366ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT365ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT32ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT273ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT245ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT241ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT241ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HCT14ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC86ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC74ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC73ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC597ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4851ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4538ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4094ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC4051ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC393ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC390ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC377ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC374ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC373ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC367ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G



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MC74HC365ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC273ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC259ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC05ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC05ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC139ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC157ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC161ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC161ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
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MC74HC165ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
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MC74HC238ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC240ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
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MC74HC251ADTG	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC251ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC368ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G
MC74HC163ADTR2G	NLV74HCT4051ADTR2G/NLVHC4851ADTR2G