



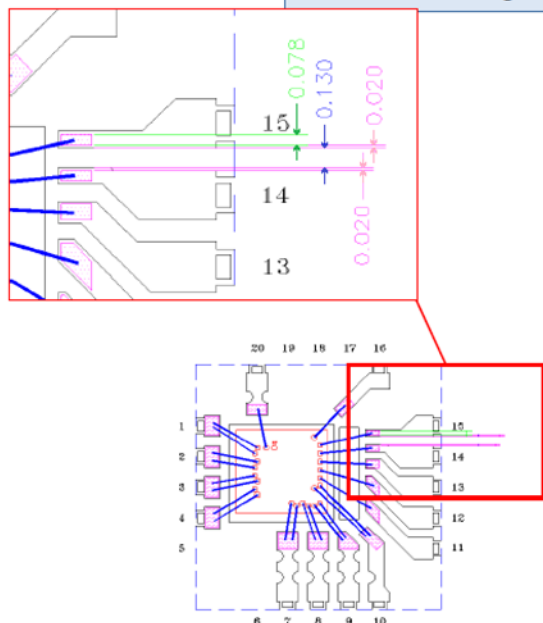
## Final Product/Process Change Notification

Document #:FPCN24698X

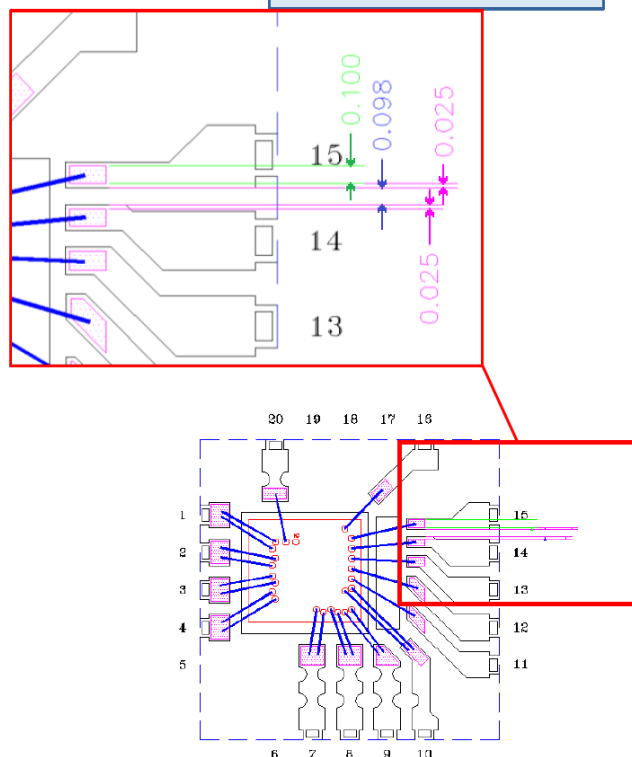
Issue Date:03 Aug 2022

<b>Title of Change:</b>	Lead Frame Vendor and Design change for QFN15 Products Assembled in UTAC (UTL) , Bangkok, Thailand.	
<b>Proposed First Ship date:</b>	08 Nov 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Marty.Paul@onsemi.com">Marty.Paul@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>	Affected products will be identified with date code. Products may contain either leadframe vendor after the 90day expiration of this FPCN. Contact onsemi for the exact date code.	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	UTAC, Thailand	
<b>Description and Purpose:</b>		
This is an FPCN to notify customers that onsemi has completed qualification of a new vendor for the leadframe in the QFN-15 package assembled at the UTAC, Bangkok Thailand location for the products listed in this announcement. The previous vendor has discontinued their leadframe product. As a result, the following changes will occur:		
	<b>Before Change Description</b>	<b>After Change Description</b>
LeadFrame	Lead frame vendor CWTC with 0.30-1.2 microinch bottom plating	Lead frame vendor Rokko with 1.38 microinch bottom plating and below dimension changes.

Current design CWTC supplier



Rokko supplier



There is no product marking change as a result of this change.



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### Reliability Data Summary:

QV DEVICE NAME NCP51820AMNTWG

RMS 84002

PACKAGE QFN-15

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/693
SD	JSTD002	Ta = 245C, 5 sec		0/45
PD	JESD22 B100, B108			0/60

### Electrical Characteristics Summary:

Electrical Characteristics are not impacted.

### 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
NCP51810AMNTWG	NCP51820AMNTWG
NCP51820AMNTWG	NCP51820AMNTWG