



# Initial Product/Process Change Notification

Document #: IPCN25326Z

Issue Date: 16 Aug 2023

<b>Title of Change:</b>	Copper Wire Conversion from 1.3 mils Au Wire to 1.3 mils Cu Wire (CHR-6BK) for CMOS Wafer Technology Devices	
<b>Proposed Changed Material First Ship Date:</b>	19 Apr 2024 or earlier if approved by customer	
<b>Current Material Last Order Date:</b>	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
<b>Current Material Last Delivery Date:</b>	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
<b>Product Category:</b>	Active components – Integrated circuits	
<b>Contact information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Nissy.Curioso@onsemi.com">Nissy.Curioso@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. 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:Nhel.Malonzo@onsemi.com">Nhel.Malonzo@onsemi.com</a>	
<b>Type of Notification:</b>	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 6 months prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >.	
<b>Change Category</b>		
<b>Category</b>	<b>Type of Change</b>	
Process - Assembly	Change of wire bonding	
<b>Description and Purpose:</b>		
onsemi would like to inform customers of the planned change from 1.3 mils Au to 1.3 mils PCC wire on select products assembled in onsemi, Carmona Philippines. There is no planned change to the orderable part numbers, or product marking, and there is no anticipated change to product parametric performance or datasheet parameters."		
	<b>From</b>	<b>To</b>
<b>Bond Wire</b>	1.3 mil Au Wire	1.3 mil PCC Wire
<b>Reason / Motivation for Change:</b>	Cost Improvement	
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	The device will be qualified and validated based on the same Product Specification. No anticipated impacts.	



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<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
onsemi Carmona, Philippines	None
<b>Marking of Parts/ Traceability of Change:</b>	The affected products will be identified by date code.

**Reliability Data Summary:**

**QV DEVICE NAME:** NCV7356D1R2G  
**RMS:** TBD  
**PACKAGE:** SOIC 8

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 150°C	2016 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 3 @ 260°C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

Estimated date of qualification completion: 22 September 2023

**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](#).*

Current Part Number	New Part Number	Qualification Vehicle
NCV7356D2R2G	N/A	NCV7356D1R2G
NCV7356D1R2G	N/A	NCV7356D1R2G