



## Final Product/Process Change Notification

Document #:FPCN25474ZB

Issue Date:31 Oct 2023

<b>Title of Change:</b>	onsemi Tarlac Bonding Wire Change for SQFP48K from Gold to Palladium Coated Copper Wire						
<b>Proposed Changed Material First Ship Date:</b>	07 May 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:Cyrus.Velasquez@onsemi.com">Cyrus.Velasquez@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>Sample Availability Date:</b>	10 Nov 2023						
<b>PPAP Availability Date:</b>	30 Nov 2023						
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Andy.Esteva@onsemi.com">Andy.Esteva@onsemi.com</a>						
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, 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>							
This final notification wants to notify customers regarding the qualification of palladium coated copper wire for SQFP48K Packages.							
<table><thead><tr><th>Material</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>Bond Wire</td><td>Gold Wire, Size: 1.2mil</td><td>Palladium Coated Copper Wire, Size: 1.2mil</td></tr></tbody></table>		Material	From	To	Bond Wire	Gold Wire, Size: 1.2mil	Palladium Coated Copper Wire, Size: 1.2mil
Material	From	To					
Bond Wire	Gold Wire, Size: 1.2mil	Palladium Coated Copper Wire, Size: 1.2mil					
There will be no changes on the other direct materials not listed above.							
There is no product marking change as a result of this change.							
<b>Reason / Motivation for Change:</b>	Process/Materials Change						
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.						



## Final Product/Process Change Notification

Document #:FPCN25474ZB

Issue Date:31 Oct 2023

No anticipated impacts.																															
<b>Sites Affected:</b>																															
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>																														
onsemi Tarlac, Philippines	None																														
<b>Marking of Parts/ Traceability of Change:</b>	Product traceability will be maintained by date code																														
<b>Reliability Data Summary:</b>																															
QV DEVICE NAME: LV8907UWR2G RMS: O87041 PACKAGE: SQFP48K																															
<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>High Temperature Storage Life</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>2016 hrs</td><td>0/231</td></tr><tr><td>Preconditioning</td><td>J-STD-020 JESD-A113</td><td>MSL 3 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only</td><td></td><td>0/720</td></tr><tr><td>Temperature Cycling</td><td>JESD22-A104</td><td>Ta= -65°C to +150°C</td><td>1000 cyc</td><td>0/231</td></tr><tr><td>Highly Accelerated Stress Test</td><td>JESD22-A110</td><td>130°C, 85% RH, 18.8psig, bias</td><td>192 hrs</td><td>0/231</td></tr><tr><td>Unbiased Highly Accelerated Stress Test</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96 hrs</td><td>0/231</td></tr></tbody></table>	Test	Specification	Condition	Interval	Results	High Temperature Storage Life	JESD22-A103	Ta= 150°C	2016 hrs	0/231	Preconditioning	J-STD-020 JESD-A113	MSL 3 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720	Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231	Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231	Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231	
Test	Specification	Condition	Interval	Results																											
High Temperature Storage Life	JESD22-A103	Ta= 150°C	2016 hrs	0/231																											
Preconditioning	J-STD-020 JESD-A113	MSL 3 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720																											
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231																											
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231																											
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231																											
Refer to the attached AEC1 Pager for more details.																															
<b>To view attachments:</b> 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file.																															
<b>Electrical Characteristics Summary:</b>																															
Electrical characteristics are not impacted.																															
<b>List of Affected Parts:</b>																															
<b>Note:</b> 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 <u><a href="#">PCN Customized Portal</a></u> .																															
<table border="1"><thead><tr><th>Current Part Number</th><th>New Part Number</th><th>Qualification Vehicle</th></tr></thead><tbody><tr><td>LV8968BBUWR2G</td><td>N/A</td><td>LV8907UWR2G</td></tr><tr><td>LV8961HUWR2G</td><td>N/A</td><td>LV8907UWR2G</td></tr><tr><td>LV8907UWR2G</td><td>N/A</td><td>LV8907UWR2G</td></tr></tbody></table>	Current Part Number	New Part Number	Qualification Vehicle	LV8968BBUWR2G	N/A	LV8907UWR2G	LV8961HUWR2G	N/A	LV8907UWR2G	LV8907UWR2G	N/A	LV8907UWR2G																			
Current Part Number	New Part Number	Qualification Vehicle																													
LV8968BBUWR2G	N/A	LV8907UWR2G																													
LV8961HUWR2G	N/A	LV8907UWR2G																													
LV8907UWR2G	N/A	LV8907UWR2G																													