



# Initial Product/Process Change Notification

Document #: IPCN24950Z

Issue Date: 29 Sep 2022

<b>Title of Change:</b>	Change in Lead Frame Raw Material and Lead Frame Plating and Finish (silver plating luster).										
<b>Proposed Changed Material First Ship Date:</b>	1 Sep 2023 or earlier if approved by customer										
<b>Current Material Last Order Date:</b>	31 Dec 2022 <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>	31 Aug 2023 <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 – Discrete components Active components – Discrete components										
<b>Contact information:</b>	Contact your local onsemi Sales Office or < <a href="mailto:takashi.akiba@onsemi.com">takashi.akiba@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:Hitoshi.Hoshino@onsemi.com">Hitoshi.Hoshino@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 leadframe base material, Change of lead frame finishing material / area (internal)										
<b>Description and Purpose:</b>											
<p>This is an Initial Change Notification to inform customers that the Lead Frame (LF) supplier is changing the raw material and Ag plating in order to comply with environmental legal requirements.</p> <p>The Lead Frame (LF) supplier will change the bright Ag plating. In addition, the raw material will be changed from EFTEC-64 to C194 to align to most current Lead Frame (LF).</p>											
<table border="1"><thead><tr><th>Items</th><th>Before Change Description</th><th>After Change Description</th></tr></thead><tbody><tr><td>Raw Material/Supplier</td><td>EFTEC-64 / Furukawa</td><td>C194 / Pongsan</td></tr><tr><td>Plating luster</td><td>Bright Ag Plating</td><td>Matte Ag Plating</td></tr></tbody></table>			Items	Before Change Description	After Change Description	Raw Material/Supplier	EFTEC-64 / Furukawa	C194 / Pongsan	Plating luster	Bright Ag Plating	Matte Ag Plating
Items	Before Change Description	After Change Description									
Raw Material/Supplier	EFTEC-64 / Furukawa	C194 / Pongsan									
Plating luster	Bright Ag Plating	Matte Ag Plating									
There is no product marking change as a result of this change.											



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<b>Reason / Motivation for Change:</b>	Lead Frame (LF) supplier change the raw material and Ag plating process Source/Supply/Capacity Changes Process/Materials Change		
<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.		
<b>Sites Affected:</b>			
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>	
onsemi Shenzhen, China		None	
<b>Marking of Parts/ Traceability of Change:</b>	Trace by Date Code		
<b>Qualification Plan:</b>			
QV DEVICE NAME: NSVF4009SG4T1G PACKAGE: MCPH-4			
<b>Test</b>	<b>Specification</b>	<b>Condition</b>	<b>Interval</b>
PC	J STD 020, JESD22-A113	IR reflow at 245C or 260C (pkg dependant)	
TC-PC	JESD22-A104	Temp = -55°C to +150°C	2000 cycles
UHAST+ PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours
<b>Electrical Characteristics Summary:</b>			
Electrical characteristics are not impacted.			
<b>List of Affected Parts:</b>			
<i><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>.</i>			
<b>Current Part Number</b>	<b>New Part Number</b>	<b>Qualification Vehicle</b>	
NSVF4009SG4T1G	N/A	NSVF4009SG4T1G	