



Initial Product/Process Change Notification

Document #: IPCN24950X

Issue Date: 29 Sep 2022

Title of Change:	Change in Lead Frame Raw Material and Lead Frame Plating and Finish (silver plating luster).	
Proposed First Ship date:	01 Sep 2023 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Takashi.Akiba@onsemi.com	
PCN Samples Contact:	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.	
Type of Notification:	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 >	
Marking of Parts/ Traceability of Change:	Trace by Date Code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Shenzhen, China	None	
Description and Purpose:		
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.		
The Lead Frame (LF) supplier will change the bright Ag plating to matte Ag plating. In addition, the raw material will be changed from EFTEC-64 to C194 to align to most current Lead Frame (LF).		
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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Qualification Plan:

QV DEVICE NAME: NSVF4009SG4T1G

PACKAGE: MCPH-4

Test	Specification	Condition	Interval
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

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
MCH4009-TL-H	NSVF4009SG4T1G