



Final Product/Process Change Notification

Document #:FPCN25528X

Issue Date:15 Jan 2025

Title of Change:	Assembly Material Change from SOIC 16L RPPF Lead frame (Flag Size: 92x130mil) to SOIC 16L RPPF Lead frame (Flag Size: 90x130mil)
Proposed First Ship date:	22 Apr 2025 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office
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.
Additional Reliability Data:	Contact your local onsemi Sales Office
Type of Notification:	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 PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Changed material can be identified by lot code or date code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites

onsemi Carmona, Philippines

External Foundry/Subcon Sites

None

Description and Purpose:

This final notification announces that onsemi has qualified a change in assembly material from SOIC 16L RPPF Lead frame (Flag Size: 92x130mil) to SOIC 16L RPPF Lead frame (Flag Size: 90x130mil).

	From	To
Lead Frame	Std RPPF Etched (Flag Size: 92x130mil)	EHDLF RPPF Stamped (Flag Size: 90x130mil)

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

Reliability Data Summary:

QV DEVICE NAME: **NCV4390DR2G**

RMS: **091714**

PACKAGE: **SOIC 16**

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45
Physical Dimensions	JESD22-B120			0/30



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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
NCP4390DR2G	NCV4390DR2G