



Final Product/Process Change Notification

Document #:FPCN25906X

Issue Date:13 May 2024

Title of Change:	Assembly Material Mold Compound Change for Sumitomo G600 to replace Resonac CEL-800JF due to mold compound supply discontinuance for TSSOP 14/16/20/24/28 devices
Proposed First Ship date:	30 Aug 2024 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Rob.Fazonela@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.
Additional Reliability Data:	Contact your local onsemi Sales Office or Chielo.Basa@onsemi.com
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:	Product traceability will be maintained by date code
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	ATEC - Automated Technology, Philippines

Description and Purpose:

This Final Product Change Notification is to notify customers that onsemi has qualified Sumitomo G600 mold compound as a replacement for existing Resonac CEL-800JF mold compound for the devices listed in this notification due to supply discontinuance.

	From	To
Mold Compound	Resonac EMC CEL-800JF	Sumitomo EMC G600

Reliability Data Summary:

QV DEVICE NAME: FIN3386MTDX

RMS: O92907

PACKAGE: TSSOP 56

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260°C, Pre TC, uHAST for surface mount pkgs only		0/480
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/240
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
Solderability	JSTD002	Ta = 245°C, 5 sec		0/ 45
Physical Dimensions	JESD22-B100 and JESD22-B108	Per Case Outline		0/30



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QV DEVICE NAME: FIN3385MTDX

RMS: O92919

PACKAGE: TSSOP 56

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/240
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/240

QV DEVICE NAME: 74LCX16646MTDX

RMS: O92908

PACKAGE: TSSOP 56

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260°C, Pre TC, uHAST for surface mount pkgs only		0/480
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/240
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
Solderability	JSTD002	Ta = 245°C, 5 sec		0/ 45
Physical Dimensions	JESD22-B100 and JESD22-B108	Per Case Outline		0/30

QV DEVICE NAME: 74LCX16245MTD

RMS: O92921

PACKAGE: TSSOP 48

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
Preconditioning	J-STD-020 JESD-A113	MSL 2 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/240
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/240

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
74LVTH245MTCX	74LCX16646MTDX / 74LCX16245MTD



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74LVTH240MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT2244MTCX	74LCX16646MTDX / 74LCX16245MTD
FIN1032MTCX	FIN3386MTDX / FIN3385MTDX
FIN1047MTCX	FIN3386MTDX / FIN3385MTDX
FIN1048MTCX	FIN3386MTDX / FIN3385MTDX
FIN1031MTCX	FIN3386MTDX / FIN3385MTDX
FIN1019MTCX	FIN3386MTDX / FIN3385MTDX
FIN1104MTCX	FIN3386MTDX / FIN3385MTDX
FIN1104MTC	FIN3386MTDX / FIN3385MTDX
74LVTH125MTCX	74LCX16646MTDX / 74LCX16245MTD
MM74HC132MTCX-L22178	74LCX16646MTDX / 74LCX16245MTD
MM74HC04MTCX-L22178	74LCX16646MTDX / 74LCX16245MTD
74VHC74MTCX-SF500950	74LCX16646MTDX / 74LCX16245MTD
74VHC14MTCX-SF500908	74LCX16646MTDX / 74LCX16245MTD
74VHC02MTCX-SF500910	74LCX16646MTDX / 74LCX16245MTD
MM74HCT244MTCX-L22178	74LCX16646MTDX / 74LCX16245MTD
MM74HC245AMTCX-L22178	74LCX16646MTDX / 74LCX16245MTD
74LVTH2245MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVTH2244MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVTH373MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT373MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT245MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT245MTC	74LCX16646MTDX / 74LCX16245MTD
74LVT244MTC	74LCX16646MTDX / 74LCX16245MTD
74LCXR2245MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVTH574MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVTH573MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT573MTCX	74LCX16646MTDX / 74LCX16245MTD
74LVT574MTCX	74LCX16646MTDX / 74LCX16245MTD
74LCX821MTCX	74LCX16646MTDX / 74LCX16245MTD
74LCX543MTCX	74LCX16646MTDX / 74LCX16245MTD
MM74HC595MTCX-L22178	74LCX16646MTDX / 74LCX16245MTD