



# Final Product/Process Change Notification

Document #:FPCN24832X

Issue Date:09 Mar 2023

<b>Title of Change:</b>	External Solderable Top Metal fab process qualification at onsemi Aizu fab location.
<b>Proposed First Ship date:</b>	14 Jun 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or MohdHezri.AbuBakar@onsemi.com or Guo Kun Yeng <GuoKun.Yeng@onsemi.com>
<b>PCN Samples Contact:</b>	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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or songyong.sim@onsemi.com
<b>Type of Notification:</b>	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
<b>Marking of Parts/ Traceability of Change:</b>	There is no product marking change as a result of this change.
<b>Change Category:</b>	Wafer Fab Change
<b>Change Sub-Category(s):</b>	Material Change

**Sites Affected:**

**onsemi Sites**

onsemi Aizu, Japan

**External Foundry/Subcon Sites**

None

**Description and Purpose:**

This is the final product change notification (FPCN) of IPCN24832X, announcing that onsemi is qualifying below changes on selected industrial qualified Orderable Part Numbers (OPNs) listed in this FPCN. Details changes as below:

	From	To
<b>Fab Site, external Solderable Top Metal</b>	onsemi Gresham	onsemi Aizu
<b>Ag metal layer thickness</b>	8.0kA	2.5kA

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

**Reliability Data Summary:**

**QV DEVICE NAME:** NRVTS1545EMFST1G

**RMS:** S87154 + S87558

**PACKAGE:** DFN-5

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 175°C, 80% max rated V	1008 hrs	0/84
HTSL	JESD22-A103	Ta= 175°C	2016 hrs	0/82
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre IOL, TC, uHAST, H3TRB for surface mount pkgs only	-	-
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30,000 cyc	0/84
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/84
H3TRB	JESD22-A110	85°C, 85% RH, 18.8psig, bias	2016 hrs	0/84
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84

**QV DEVICE NAME:** NVTF55116PLTAG

**RMS:** S85097

**PACKAGE:** WDFN-8

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 175°C, 80% max rated V	2016 hrs	0/84
HTGB	JESD22-A108	Tj= 175°C, 100% max rated Vgss	2016 hrs	0/84
HTSL	JESD22-A103	Ta= 175°C	2016 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only	-	-
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc	0/84
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/84
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/84
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84

**QV DEVICE NAME:** NRV TSA4100ET3G

**RMS:** S85112

**PACKAGE:** SMA-2

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 175°C, 80% max rated V	2016 hrs	0/83
HTSL	JESD22-A103	Ta= 175°C	2016 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre IOL, TC, uHAST, H3TRB for surface mount pkgs only	-	-
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc	0/84
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/84
H3TRB	JESD22-A110	85°C, 85% RH, 18.8psig, bias	1512 hrs	0/84
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84

**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
NTTFS5116PLTWG	QV1 + QV2 + QV3
NTTFS5116PLTAG	QV1 + QV2 + QV3
NTS12100MFST1G	QV1 + QV2 + QV3

**Appendix A: Changed Products**

**PCN#: FPCN24832X**  
**Issue Date: Mar 08, 2023**

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NTTFS5116PLTWG		QV1 + QV2 + QV3	NA	
NTS12100MFST1G		QV1 + QV2 + QV3	NA	
NTTFS5116PLTAG		QV1 + QV2 + QV3	NA	