



Final Product/Process Change Notification

Document #:FPCN22783X1

Issue Date:16 Feb 2022

Title of Change:	Update to FPCN22783X - MiniGates Fab, Assembly Material and Test Change (MicroPak 8lds) with datasheet update, push out on implementation date
Proposed First Ship date:	10 May 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or logic.fpcn@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 ChangKit.Mok@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:	The CS code on the label will be changed from US to JP
Change Category:	Test Change, Assembly Change, Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Addition, Shipping/Packaging/Marking, Datasheet/Product Doc change, Material Change, Manufacturing Process Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Maine, United States	HANA Semiconductor, Thailand
	STARS Microelectronics, Thailand
	Towerjazz Semiconductor, Japan (Toyama)
	UTAC, Thailand

Description and Purpose:

This updated FPCN is released to inform customers that we are pushing out the implementation of FPCN22783X due to wafer fab constraint Towerjazz Semiconductor Japan TPSCo. All the affected parts will continue be supplied using the existing site and BOM.

Reliability Data Summary:

QV DEVICE NAME : NC7SZ74L8X

RMS : W45201

PACKAGE : UQFN 1.6x1.6mm 8L, 0.5P

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/720
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/240
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/240
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/240
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/30



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QV DEVICE NAME : NC7SP74L8X

RMS : W61414

PACKAGE : UQFN 1.6x1.6mm 8L, 0.5P

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/240
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/80
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/80
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/10

Electrical Characteristics Summary:

Electrical characteristics available upon request.

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
NC7NP14L8X	NC7SP74L8X, NC7SZ74L8X
NC7NP34L8X	NC7SP74L8X, NC7SZ74L8X
NC7WP32L8X	NC7SP74L8X, NC7SZ74L8X
NC7WP125L8X	NC7SP74L8X, NC7SZ74L8X
NC7WP02L8X	NC7SP74L8X, NC7SZ74L8X
NC7WP00L8X	NC7SP74L8X, NC7SZ74L8X
NC7WP08L8X	NC7SP74L8X, NC7SZ74L8X
NC7SV74L8X	NC7SP74L8X, NC7SZ74L8X
NC7SP74L8X	NC7SP74L8X, NC7SZ74L8X

Appendix A: Changed Products

PCN#: FPCN22783X1
Issue Date: Feb 15, 2022

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NC7WP08L8X		NC7SP74L8X, NC7SZ74L8X	NA	
NC7SP74L8X		NC7SP74L8X, NC7SZ74L8X	NA	
NC7SV74L8X		NC7SP74L8X, NC7SZ74L8X	NA	