



# Final Product/Process Change Notification

Document #:FPCN24218XA

Issue Date:13 Jun 2022

<b>Title of Change:</b>	NCP1399/NCP13992 - Assembly Qualification to UTAC, Thailand for capacity expansion - Phase 2.			
<b>Proposed First Ship date:</b>	20 Sep 2022 or earlier if approved by customer			
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Scott.Brow@onsemi.com">Scott.Brow@onsemi.com</a>			
<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 <a href="mailto:Rhica.Loredo@onsemi.com">Rhica.Loredo@onsemi.com</a>			
<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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>			
<b>Marking of Parts/ Traceability of Change:</b>	Product marked with "G" as assembly location is built in UTAC, Thailand Product marked with "P" as assembly location is built in Carmona, Philippines			
<b>Change Category:</b>	Assembly Change			
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition			
<b>Sites Affected:</b>				
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>			
None	UTAC, Thailand			
<b>Description and Purpose:</b>				
onsemi would like to notify its customers of the qualification of UTAC, Thailand (UTL2) for the assembly of the part numbers listed in this Final Product Change notification (FPCN).				
At the expiry of this notification, the part numbers listed may be assembled in either onsemi Carmona, Philippines or UTAC, Thailand.				
	<b>Before Change</b>		<b>After Change</b>	
<b>Lead Frame</b>	SOIC-16 Cu Frame (Less Pins 2 and 14)		SOIC-16 Cu Frame (Less Pins 2 and 14)	SOIC-16 Cu Frame (Less Pins 2 and 14)
<b>Die Attach</b>	CRM-1191A Non-conductive		CRM-1191A Non-conductive	Ablestik ABP8910T Non-Conductive
<b>Bond Wire</b>	1.0mil AuPdCu		1.0mil AuPdCu	1.0 AuPdCu
<b>Mold Compound</b>	Sumitomo G600		Sumitomo G600	Sumitomo G633
<b>Assembly Site</b>	onsemi Carmona, Philippines		onsemi Carmona, Philippines	UTAC (UTL2)
	<b>Current (onsemi Carmona, Philippines)</b>		<b>New (UTAC)</b>	
<b>Product marking change</b>	Trace code: P(WLYWW) G*		Trace code: G (WLYWW) G	
*See the datasheet for more information regarding the trace code marking.				



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### Reliability Data Summary:

**QV DEVICE NAME:** NCP1399ACDR2G

**RMS:** O77266, O78735, O78737, O79145

**PACKAGE:** SOIC 16lds

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 100 % max rated Vcc	1008 hrs	0/231
HTBB	JESD22-A108	Ta= 125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	500 Cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020   JESD-A113	MSL 1 @ 260 °C		0/693
PD	JESD22-B100B	Package Outline		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15

### 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
NCP13992AWDR2G	NCP1399ACDR2G
NCP13992AUDR2G	NCP1399ACDR2G
NCP13992ATDR2G	NCP1399ACDR2G
NCP13992ASDR2G	NCP1399ACDR2G
NCP13992ARDR2G	NCP1399ACDR2G
NCP13992ANDR2G	NCP1399ACDR2G
NCP13992AMDR2G	NCP1399ACDR2G
NCP13992ALDR2G	NCP1399ACDR2G
NCP13992AKDR2G	NCP1399ACDR2G
NCP13992AJDR2G	NCP1399ACDR2G
NCP13992AHDR2G	NCP1399ACDR2G
NCP13992AGDR2G	NCP1399ACDR2G
NCP13992AFDR2G	NCP1399ACDR2G
NCP13992AEDR2G	NCP1399ACDR2G



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NCP13992ADDR2G	NCP1399ACDR2G
NCP13992ABDR2G	NCP1399ACDR2G
NCP13992AADR2G	NCP1399ACDR2G
NCP1399ATDR2G	NCP1399ACDR2G
NCP1399ASDR2G	NCP1399ACDR2G
NCP1399ARDR2G	NCP1399ACDR2G
NCP1399ANDR2G	NCP1399ACDR2G
NCP1399AMDR2G	NCP1399ACDR2G
NCP1399AIDR2G	NCP1399ACDR2G
NCP1399AHDR2G	NCP1399ACDR2G
NCP1399AGDR2G	NCP1399ACDR2G
NCP1399AFDR2G	NCP1399ACDR2G
NCP1399AADR2G	NCP1399ACDR2G

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**Appendix A: Changed Products**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP13992AFDR2G		NCP1399ACDR2G		
NCP13992AADR2G		NCP1399ACDR2G		
NCP1399AIDR2G		NCP1399ACDR2G		
NCP1399AADR2G		NCP1399ACDR2G		
NCP13992ABDR2G		NCP1399ACDR2G		