



## Final Product/Process Change Notification

Document #:FPCN24634X

Issue Date:18 Apr 2022

<b>Title of Change:</b>	Qualification of Alternate Mold Compound - G770HCD for QFN and DFN package in HANA due to Showa Denko supply shortage for CEL9220HF13.	
<b>Proposed First Ship date:</b>	25 Jul 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Seok-Ho.Choi@onsemi.com">Seok-Ho.Choi@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:Chielo.Basa@onsemi.com">Chielo.Basa@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>	Change will be identifiable by lot# that will be using the alternate new mold compound.	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	HANA Semiconductor, Thailand	
<b>Description and Purpose:</b>		
<p>onsemi would like to notify its customers of the qualification of alternate mold compound, G770HCD, at its subcon, HANA Thailand, for its QFN and DFN package. This qualification is required due to notification from our current supplier, Showa Denko, of an impending supply shortage for mold compound type CEL9220HF13. This will allow package flexibility with regards to assembly production support depending on the mold compound availability and help to prevent any kind of supply disruption. Our notification from Showa Denko had a short window and we ask that customers immediately qualify the change.</p>		
	<b>Before Change Description</b>	<b>After Change Description</b>
Mold Compound	CEL9220HF13	CEL9220HF13 & G770HCD



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Issue Date:18 Apr 2022

## Reliability Data Summary:

**QV DEVICE NAME: NC7SP74L8X**

**RMS: W80817**

**PACKAGE: UQFN-8**

Test	Specification	Condition	Interval	Result
HTOL	JA108	Ta=125C	1008	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
PC	J-STD-020A JESD22-A113	MSL 1 @ 260°C		Pass
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cycles	0/240
HAST	JESD22-A110	Temp=130°C, 85% RH	96hrs	0/240
UHAST	JESD22-A118	Temp=130°C, 85% RH	96 hrs	0/240
PD	JESD22-B100B	Per case outline		Pass

**QV DEVICE NAME: FAN3224CMPX**

**RMS: O80819**

**PACKAGE: WDFN-8**

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
PC	J-STD-020A JESD22-A113	MSL 1 @ 260°C		Pass
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cycles	0/240
UHAST	JESD22-A118	Temp=130°C, 85% RH	96 hrs	0/240
PD	JESD22-B100B	Per case outline		Pass

## 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
74AUP1G56L6X	NC7SP74L8X
74AUP1G57FHX	NC7SP74L8X
74AUP1G57L6X	NC7SP74L8X
74AUP1G58FHX	NC7SP74L8X
74AUP1G58L6X	NC7SP74L8X
74AUP1G59L6X	NC7SP74L8X
74AUP1G95FHX	NC7SP74L8X
74AUP1G95L6X	NC7SP74L8X
74AUP1G97FHX	NC7SP74L8X



## Final Product/Process Change Notification

Document #:FPCN24634X

Issue Date:18 Apr 2022

74AUP1G97L6X	NC7SP74L8X
74AUP1G98L6X	NC7SP74L8X
74AUP1T97FHX	NC7SP74L8X
74AUP1T97L6X	NC7SP74L8X
FAN156L6X	NC7SP74L8X
FAN3988IL6X	NC7SP74L8X
FAN3988IL6X-F113	NC7SP74L8X
FAN4010IL6X	NC7SP74L8X
FAN4010IL6X-F113	NC7SP74L8X
FMS6151L6X	NC7SP74L8X
FSA2259UMX	NC7SP74L8X
FSA2267AL10X	NC7SP74L8X
FSA2267L10X	NC7SP74L8X
FSA2268L10X	NC7SP74L8X
FSA2268UMX	NC7SP74L8X
FSA2457UMX	NC7SP74L8X
FSA2466UMX	NC7SP74L8X
FSA2567UMX	NC7SP74L8X
FSA3000L10X	NC7SP74L8X
FSA3000L10X-F131	NC7SP74L8X
FSA3031UMX	NC7SP74L8X
FSA321UMX	NC7SP74L8X
FSA4157AL6X	NC7SP74L8X
FSA4159L6X	NC7SP74L8X
FSA5157L6X	NC7SP74L8X
FSA6157L6X	NC7SP74L8X
FSUSB104UMX	NC7SP74L8X
FSUSB30L10X	NC7SP74L8X
FSUSB30UMX	NC7SP74L8X
FSUSB31L8X	NC7SP74L8X
FSUSB40L10X	NC7SP74L8X
FT10001L6X	NC7SP74L8X
FT7521L6X	NC7SP74L8X
FT7522L6X	NC7SP74L8X



# Final Product/Process Change Notification

Document #:FPCN24634X

Issue Date:18 Apr 2022

FXL2T245L10X	NC7SP74L8X
FXL2TD245L10X	NC7SP74L8X
FXL4TD245UMX	NC7SP74L8X
FXLA0104QFX-F106	NC7SP74L8X
FXLA101L6X	NC7SP74L8X
FXLA102L8X	NC7SP74L8X
FXLA104UM12X	NC7SP74L8X
FXLA104UMX	NC7SP74L8X
FXLH1T45L6X	NC7SP74L8X
FXLP34FHX	NC7SP74L8X
FXLP34L6X	NC7SP74L8X
FXMA2102L8X	NC7SP74L8X
FXMA2102UMX	NC7SP74L8X
FXMA2104UMX	NC7SP74L8X
FXMAR2102L8X	NC7SP74L8X
FXMAR2102UMX	NC7SP74L8X
FXMAR2102UMX-F106	NC7SP74L8X
FXMAR2104UMX	NC7SP74L8X
NC7NP14L8X	NC7SP74L8X
NC7SP08FHX	NC7SP74L8X
NC7SP08L6X	NC7SP74L8X
NC7SP126L6X	NC7SP74L8X
NC7SP17FHX	NC7SP74L8X
NC7SP17L6X	NC7SP74L8X
NC7SP74L8X	NC7SP74L8X
NC7SV00L6X	NC7SP74L8X
NC7SV02FHX	NC7SP74L8X
NC7SV02L6X	NC7SP74L8X
NC7SV04L6X	NC7SP74L8X
NC7SV05FHX	NC7SP74L8X
NC7SV05L6X	NC7SP74L8X
NC7SV08FHX	NC7SP74L8X
NC7SV17FHX	NC7SP74L8X
NC7SV17L6X	NC7SP74L8X



# Final Product/Process Change Notification

Document #:FPCN24634X

Issue Date:18 Apr 2022

NC7SV32L6X	NC7SP74L8X
NC7SV57L6X	NC7SP74L8X
NC7SV58L6X	NC7SP74L8X
NC7SV74L8X	NC7SP74L8X
NC7SVL04L6X	NC7SP74L8X
NC7SVL08FHX	NC7SP74L8X
NC7SVL08L6X	NC7SP74L8X
NC7SVL32FHX	NC7SP74L8X
NC7SVL32L6X	NC7SP74L8X
NC7WP02L8X	NC7SP74L8X
NC7WP08L8X	NC7SP74L8X
NC7WP125L8X	NC7SP74L8X
NC7WP32L8X	NC7SP74L8X
FAN2558MP15X	FAN3244CMPX
FAN2558MPX	FAN3244CMPX
FAN3121TMPX	FAN3244CMPX
FAN3122CMPX	FAN3244CMPX
FAN3122TMPX	FAN3244CMPX
FAN3223TMPX	FAN3244CMPX
FAN3224CMPX	FAN3244CMPX
FAN3224TMNTXG	FAN3244CMPX
FAN3224TMPX	FAN3244CMPX
FAN3225TMPX	FAN3244CMPX
FAN3226CMPX	FAN3244CMPX
FAN3226TMPX	FAN3244CMPX
USB1T1105AMHX	FAN3244CMPX
FXMA108BQX	FAN3244CMPX
FXLP4555MPX	FAN3244CMPX
FXLH42245MPX	FAN3244CMPX
FXLA108BQX	FAN3244CMPX
FXL5T244BQX	FAN3244CMPX
FXL4TD245BQX	FAN3244CMPX
FXL4T245BQX	FAN3244CMPX
FXL4245MPX	FAN3244CMPX



# Final Product/Process Change Notification

Document #:FPCN24634X

Issue Date:18 Apr 2022

FXL2SD106BQX	FAN3244CMPX
FSSD06BQX	FAN3244CMPX
FSA2567MPX	FAN3244CMPX
FSA2467MPX	FAN3244CMPX
FSA2380BQX	FAN3244CMPX
FSA1208BQX	FAN3244CMPX
FAN8060EMPX	FAN3244CMPX
FAN5602MP5X	FAN3244CMPX
FAN5308MPX	FAN3244CMPX
FAN3989MLP8X	FAN3244CMPX
FAN3229TMPX	FAN3244CMPX
FAN3227TMPX	FAN3244CMPX
FAN3227CMPX	FAN3244CMPX
FAN2558MP18X	FAN3244CMPX
FAN2558MP13X	FAN3244CMPX
FAN2558MP12X	FAN3244CMPX
FAN2558MP10X	FAN3244CMPX
FAN2012MPX	FAN3244CMPX
FAN2012EMPX	FAN3244CMPX
FAN2002MPX	FAN3244CMPX
FAN2001MPX	FAN3244CMPX
74VCX245BQX	FAN3244CMPX
74VCX08BQX	FAN3244CMPX
SC7SZU04FHX	NC7SP74L8X
NC7WZ17L6X-L22175	NC7SP74L8X
NC7WZ17FHX-L22175	NC7SP74L8X
NC7WZ04L6X	NC7SP74L8X
NC7SV58FHX	NC7SP74L8X
FSA2258L10X	NC7SP74L8X
FSA221UMX	NC7SP74L8X
FSA221L10X	NC7SP74L8X
FSA1257L8X	NC7SP74L8X
FSA1257AL8X	NC7SP74L8X
FSA1256L8X	NC7SP74L8X



Final Product/Process Change Notification  
Document #:FPCN24634X  
Issue Date:18 Apr 2022

FSA1256AL8X	NC7SP74L8X
FSA1156L6X	NC7SP74L8X
74AUP1G98FHX	NC7SP74L8X
74AUP1G96L6X	NC7SP74L8X
74AUP1G96FHX	NC7SP74L8X
74AUP1G59FHX	NC7SP74L8X
74AUP1G56FHX	NC7SP74L8X

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FAN156L6X		NC7SP74L8X		
FAN4010L6X		NC7SP74L8X		
FAN4010L6X-F113		NC7SP74L8X		
FMS615L6X		NC7SP74L8X		
FSA2259UMX		NC7SP74L8X		
FSA2267AL10X		NC7SP74L8X		
FSA2267L10X		NC7SP74L8X		
FSA2268L10X		NC7SP74L8X		
FSA2268UMX		NC7SP74L8X		
FSA2457UMX		NC7SP74L8X		
FSA2466UMX		NC7SP74L8X		
FSA2567UMX		NC7SP74L8X		
FSA3000L10X		NC7SP74L8X		
FSA3031UMX		NC7SP74L8X		
FSA321UMX		NC7SP74L8X		
FSA4157AL6X		NC7SP74L8X		
FSA4159L6X		NC7SP74L8X		
FSA5157L6X		NC7SP74L8X		
FSA6157L6X		NC7SP74L8X		
FSUSB104UMX		NC7SP74L8X		
FSUSB30L10X		NC7SP74L8X		
FSUSB30UMX		NC7SP74L8X		
FAN3988L6X-F113		NC7SP74L8X		
FT1000L6X		NC7SP74L8X		
FSUSB31L8X		NC7SP74L8X		
FT7522L6X		NC7SP74L8X		
FT7521L6X		NC7SP74L8X		
FXL2TD245L10X		NC7SP74L8X		
FXL2T245L10X		NC7SP74L8X		
FXLA0104QFX-F106		NC7SP74L8X		
FXL4TD245UMX		NC7SP74L8X		
FXLA101L6X		NC7SP74L8X		
FXLA102L8X		NC7SP74L8X		
FXLA104UMX		NC7SP74L8X		
FXLA104UM12X		NC7SP74L8X		
FXLP34FHX		NC7SP74L8X		
FXLH1T45L6X		NC7SP74L8X		
FXLP34L6X		NC7SP74L8X		
FXMA2102UMX		NC7SP74L8X		
FXMA2102L8X		NC7SP74L8X		
FXMAR2102L8X		NC7SP74L8X		
FXMA2104UMX		NC7SP74L8X		
FXMAR2102UMX-F106		NC7SP74L8X		
FXMAR2102UMX		NC7SP74L8X		
NC7SP08L6X		NC7SP74L8X		
FXMAR2104UMX		NC7SP74L8X		
NC7SP17L6X		NC7SP74L8X		
NC7SP126L6X		NC7SP74L8X		
NC7SV00L6X		NC7SP74L8X		
NC7SP74L8X		NC7SP74L8X		
NC7SV17L6X		NC7SP74L8X		
NC7SV04L6X		NC7SP74L8X		
NC7SV74L8X		NC7SP74L8X		
NC7SV32L6X		NC7SP74L8X		
NC7WP08L8X		NC7SP74L8X		
NC7SVL08FHX		NC7SP74L8X		
FAN3122CMPX		FAN3244CMPX		
FAN2558MPX		FAN3244CMPX		
FAN3122TMPX		FAN3244CMPX		
FAN3224CMPX		FAN3244CMPX		



**Appendix A: Changed Products**

**PCN#: FPCN24634X**  
**Issue Date: Apr 18, 2022**

DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FAN3223TMPX		FAN3244CMPX		
FAN3224TMPX		FAN3244CMPX		
FAN3225TMPX		FAN3244CMPX		
FXMA108BQX		FAN3244CMPX		
FAN3226TMPX		FAN3244CMPX		
FXLH42245MPX		FAN3244CMPX		
FXLP4555MPX		FAN3244CMPX		
FXL5T244BQX		FAN3244CMPX		
FXLA108BQX		FAN3244CMPX		
FXL4T245BQX		FAN3244CMPX		
FXL4TD245BQX		FAN3244CMPX		
FXL2SD106BQX		FAN3244CMPX		
FXL4245MPX		FAN3244CMPX		
FSA2567MPX		FAN3244CMPX		
FSSD06BQX		FAN3244CMPX		
FSA2380BQX		FAN3244CMPX		
FSA2467MPX		FAN3244CMPX		
FAN5602MP5X		FAN3244CMPX		
FSA1208BQX		FAN3244CMPX		
FAN3989MLP8X		FAN3244CMPX		
FAN5308MPX		FAN3244CMPX		
FAN3227TMPX		FAN3244CMPX		
FAN3229TMPX		FAN3244CMPX		
FAN2002MPX		FAN3244CMPX		
FAN2012MPX		FAN3244CMPX		
FAN2001MPX		FAN3244CMPX		
FAN2012EMPX		FAN3244CMPX		
NC7WZ04L6X		NC7SP74L8X		
74VCX245BQX		FAN3244CMPX		
FSA2258L10X		NC7SP74L8X		
74VCX08BQX		FAN3244CMPX		
FSA1257AL8X		NC7SP74L8X		
FSA1256L8X		NC7SP74L8X		
FSA1257L8X		NC7SP74L8X		
FSA1256AL8X		NC7SP74L8X		

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**Appendix A: Changed Products**

**PCN#: FPCN24634X**  
**Issue Date: Apr 18, 2022**

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MRHO: MAR-HINO SA

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FSA3000L10X		NC7SP74L8X		