



Title of Change:	Qualification of non-conductive die attach epoxy ABLESTIK 8900NC in TSOP5, TSOP6, US8, SC82 and SOT23A devices as an alternative to the current non-conductive epoxy Hitachi EN4370K3 due to end of life.							
Proposed first ship date:	12 May 2019							
Contact information:	Contact your local ON Semiconductor Sales Office or <PCN.Support@onsemi.com>							
Samples:	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> 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.							
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <MohdHairwan.MdNor@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. ON Semiconductor 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>							
Change Part Identification:	Materials assembly with new material will be identified with date code.							
Change Category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____							
Change Sub-Category(s):	<input type="checkbox"/> Manufacturing Site Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____							
Sites Affected:	ON Semiconductor Sites: ON Seremban, Malaysia	External Foundry/Subcon Sites: None						
Description and Purpose:								
<p>ON Semiconductor would like to inform its customers of the qualification of non-conductive die attach epoxy Ablestik 8900NC for products listed in this Final Product Change Notification (FPCN). This epoxy will replace the current non-conductive die attach epoxy Hitachi EN4370K3 due to end of life. At the end of the FPCN approval cycle, these products will be using epoxy Ablestik 8900NC as the die attach epoxy Hitachi EN4370K3 may no longer available.</p> <p>No change for test.</p> <p>For assembly, BOM change associated with this FPCN is shown here.</p> <table border="1" data-bbox="123 1543 1510 1623"> <thead> <tr> <th></th> <th>Before Change Description</th> <th>After Change Description</th> </tr> </thead> <tbody> <tr> <td>Die Attach</td> <td>Non-conductive epoxy Hitachi EN4370K3</td> <td>Non-conductive epoxy Ablestik 8900NC</td> </tr> </tbody> </table> <p>There is no product marking change as a result of this change</p>				Before Change Description	After Change Description	Die Attach	Non-conductive epoxy Hitachi EN4370K3	Non-conductive epoxy Ablestik 8900NC
	Before Change Description	After Change Description						
Die Attach	Non-conductive epoxy Hitachi EN4370K3	Non-conductive epoxy Ablestik 8900NC						

**Reliability Data Summary:**

QV DEVICE NAME : NCV551SN30T1G
RMS S48691
PACKAGE TSOP5

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PTC	JESD22-A105	Ta=-40°C to +125°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCS2002SN1T1G
RMS S48812
PACKAGE TSOP6

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCV305LSQ20T1G
RMS S48688
PACKAGE SC82

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90



QV DEVICE NAME : NCV51460SN33T1G
RMS S48792
PACKAGE SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
UHAST	JESD22-A118	130°C, 85% RH, 18.8 psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NLV7SB3257DTT1G
RMS S48908
PACKAGE SC82

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252

Electrical Characteristic 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
LM321SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LM7301SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV301SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV321SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV331SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV931SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-025G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-028G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-029G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-030G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-050G	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC15NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC18NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC25NTRG	NCV551SN30T1G & NLV7SB3257DTT1G



MC78LC27NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC28NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC30NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC33NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC40NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC50NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN185T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN18T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN18T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN26T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP500SN28T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN30T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN30T2G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN33T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP502SN37T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP502SN50T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP511SN30T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP511SN33T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP511SN33T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCP511SN50T1G	NCV551SN30T1G & NLV7SB3257DTT1G



NCP51460SN33T1G	NCV51460SN33T1G
NCP551SN15T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP551SN18T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP551SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP563SQ27T1G	NCV305LSQ20T1G
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NCP600SN250T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN280T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP700BSN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP700BSN28T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP700BSN30T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP700BSN33T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2001SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2001SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2002SN1T1G	NCS2002SN1T1G



NCS2002SN2T1G	NCS2002SN1T1G
NCS2003ASN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2003SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2005SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20061SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20061SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20071SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20081SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20081SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20091SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20091SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN1T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN1T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2250SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2252SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS7101SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS7101SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCV511SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
SCP51460SN33T1G	NCV51460SN33T1G
TL331SN4T3G	NCV551SN30T1G & NLV7SB3257DTT1G
TLV271SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
TLV271SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
TS391SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



信頼性データの要約:

デバイス名: NCV551SN30T1G

RMS S48691

パッケージ : TSOP5

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PTC	JESD22-A105	Ta=-40°C to +125°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

デバイス名: NCS2002SN1T1G

RMS S48812

パッケージ : TSOP6

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

デバイス名: NCV305LSQ20T1G

RMS S48688

パッケージ : SC82

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90



デバイス名: NCV51460SN33T1G

RMS S48792

パッケージ : SOT23

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
UHASt	JESD22-A118	130°C, 85% RH, 18.8 psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

デバイス名: NLV7SB3257DTT1G

RMS S48908

パッケージ : SC82

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252

電气的特性の要約: 電气的特性への影響はありません。

影響を受ける部品の一覧:

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

部品番号	認定試験用ピークル
LM321SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LM7301SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV301SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV321SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV331SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
LMV931SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-025G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-028G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-029G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-030G	NCV551SN30T1G & NLV7SB3257DTT1G
MC33761SNT1-050G	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC15NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC18NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC25NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC27NTRG	NCV551SN30T1G & NLV7SB3257DTT1G



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MC78LC28NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC30NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC33NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC40NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
MC78LC50NTRG	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN185T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN18T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN18T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP500SN27T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN28T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN30T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN30T2G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN33T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP500SN50T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP502SN28T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP502SN29T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP502SN36T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP511SN50T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP51460SN33T1G	NCV51460SN33T1G
NCP551SN15T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP551SN18T1G	NCV551SN30T1G & NLV7SB3257DTT1G



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NCP551SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP551SN27T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP571SN08T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP571SN09T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP571SN10T1G	NCV551SN30T1G & NLV7SB3257DTT1G



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NCP571SN12T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN130T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN150T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN180T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN250T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN280T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN300T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN330T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN350T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SN500T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP600SNADJT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP603SN130T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP663SQ50T1G	NCV305LSQ20T1G
NCP698SQ13T1G	NCV305LSQ20T1G



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NCP698SQ15T1G	NCV305LSQ20T1G
NCP698SQ18T1G	NCV305LSQ20T1G
NCP698SQ25T1G	NCV305LSQ20T1G
NCP698SQ28T1G	NCV305LSQ20T1G
NCP698SQ30T1G	NCV305LSQ20T1G
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NCP698SQ35T1G	NCV305LSQ20T1G
NCP698SQ50T1G	NCV305LSQ20T1G
NCP699SN13T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP699SN15T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP699SN45T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP699SN50T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCP700BSN18T1G	NCV551SN30T1G & NLV7SB3257DTT1G
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NCP700BSN33T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2001SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2001SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2002SN1T1G	NCS2002SN1T1G
NCS2002SN2T1G	NCS2002SN1T1G
NCS2003ASN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2003SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2005SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20061SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20061SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20071SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20081SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20081SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G



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NCS20091SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS20091SN3T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN1T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2200SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN1T1GH	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2202SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2250SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS2252SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS7101SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCS7101SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
NCV511SN25T1G	NCV551SN30T1G & NLV7SB3257DTT1G
SCP51460SN33T1G	NCV51460SN33T1G
TL331SN4T3G	NCV551SN30T1G & NLV7SB3257DTT1G
TLV271SN1T1G	NCV551SN30T1G & NLV7SB3257DTT1G
TLV271SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G
TS391SN2T1G	NCV551SN30T1G & NLV7SB3257DTT1G