



Final Product/Process Change Notification

Document #: FPCN25572X

Issue Date: 30 Jun 2023

Title of Change:	Qualification of Vanguard Fab and Some Assembly Related Changes for Logic parts
Proposed First Ship date:	See attached file for proposed first ship date for each product
Contact Information:	Contact your local onsemi Sales Office or < logic.fpcn@onsemi.com >
PCN Samples Contact:	Contact your local onsemi Sales Office or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 30 days from the date of first notification, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. See attached file for anticipated availability date.
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. The change will be implemented at 'Proposed Changed Material First Ship Date' for each part number in the attached file, in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this change accepted on that date, 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:	As material from different FABs cannot be combined in to (1) reel, product from Vanguard will show "Diffused In: TW" on the label of the reel and box. Please see sample MPN on page 2 at the following link http://www.onsemi.com/pub_link/Collateral/LABELRM-D.PDF to see the location of the Diffused In notation.
Change Category:	Wafer Fab Change, Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Transfer, Datasheet/Product Doc Change
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Carmona, Philippines onsemi Leshan Phoenix Semiconductor, China onsemi Seremban, Malaysia onsemi Tarlac, Philippines onsemi Cebu, Philippines	Amkor Technology, Korea Amkor Technology, Philippines ATEC – Automated Technology, Philippines ATX Kun Shan, China ATX Chung Li, China ATX Shanghai, China Greatek Electronics, Taiwan Hana Jiaxing, China Hana Microelectronics, Thailand JCET Jiangyin, China Stars Microelectronics, Thailand UTAC Thai Ltd., Thailand UTL2 Bangsamak, Thailand Vanguard International Semiconductor, Taiwan

Description and Purpose:

The purpose of this notification is to notify customers of the qualification of Vanguard as a wafer supplier for most of the logic product portfolio. Please see the attached file for details on the disposition, sample schedule, and last order dates by part number. We have included the entire logic portfolio for your reference, including part numbers which are not changing, as well as those that have already been included on previous FPCNs.

The bulk of these products are currently processed at Tower Semiconductor, Ltd. (Tower) in Fab 1. Tower has communicated that all onsemi TS35/TS60/TS50 products in Fab 1 are to become obsolete in 2024, so an alternate source is required for customer support.

This FPCN will become effective for each part number on the 'Proposed Change Material First Ship Date' listed in the attached file. Deliveries will start immediately after receiving FPCN approval or Orders Authority (OA). We have no ability to support customer orders beyond the listed First Ship Date. If a customer does not wish to receive product from the new source, they should take action to cancel or push out all future orders. Customer should work with their local sales contacts to cancel or push orders as needed.

In addition, some products that are manufactured in TowerJazz Panasonic Semiconductor Co., Ltd. (TPSCo) in Japan and Diodes, Inc. South Portland, Maine are also being transferred to Vanguard as well to consolidate our product portfolio and ensure strong future support.

	From	To
Fab Site	Tower Semiconductor, TPSCo, and Diodes Maine	Vanguard International Semiconductor (VIS)
Wafer size	150 mm and 200 mm	200 mm
Packaging	Refer to attached file and information below by Product Family/Qual Vehicle	Refer to attached file and information below by Product Family/Qual Vehicle
Part Number Changes	Refer to attached file	Refer to attached file
Product Marking	No change	
Datasheet	Current Revision	New Revision
Absolute Max Rating	6.5V or 7V	6.5V
Electrical Characteristics	Refer to attached file and information below by Product Family	Refer to attached file and information below by Product Family

5V MiniGate Logic

NOTE: Some part numbers covered under FPCN24802X, FPCN24889X, FPCN24889XA, refer to attached file and those PCNs for detailed information

QV DEVICE NAME: NL27WZ14DFT2G, MC74VHC1G14DFT1G

PACKAGE: SC88/A

➤ Assembly changes:

	From	To
Assembly Site	Hana, onsemi Cebu and onsemi Leshan Phoenix Semiconductor	onsemi Seremban and onsemi Leshan Phoenix Semiconductor
Wire	Au, Au, Cu	Cu
Leadframe	PPF, C194, A42 Stamped	A42 Stamped
Mold Compound	G600 HF, CK5000A, GR640HV	GR640HV
Die Attach	2200D, 84-1LMIS4R, N/A – Eutectic	N/A – Eutectic
Plating	Preplated, 100% Sn, 100% Sn	100% Sn

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS L85492, L82712 and S85493.



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QV DEVICE NAME: NL27WZ14DFT2G, MC74VHC1G14DFT1G

PACKAGE: SC88/A

➤ **Assembly changes:**

	From	To
Assembly Site	Hana, onsemi Cebu and onsemi Leshan Phoenix Semiconductor	onsemi Seremban and onsemi Leshan Phoenix Semiconductor
Wire	Au, Au, Cu	Cu
Leadframe	PPF, C194, A42 Stamped	A42 Stamped
Mold Compound	G600 HF, CK5000A, GR640HV	GR640HV
Die Attach	2200D, 84-1LMIS4R, N/A – Eutectic	N/A – Eutectic
Plating	Preplated, 100% Sn, 100% Sn	100% Sn

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS L85492, L82712 and S85493.

QV DEVICE NAME: NL27WZ14DBVT1G, MC74VHC1G14DBVT1G

PACKAGE: SC74/A

➤ **Assembly changes:**

	From	To
Assembly Site	onsemi Seremban, Hana	onsemi Leshan Phoenix Semiconductor
Lead Frame	COPPER ALLOY CDA 194 with Ag SPOT Plated , PPF	Alloy 42 with OVERALL Cu Plated
Bond Wire	Au, Au	Cu
Mold Compound	SUMITOMO EME-G600FB, EMEG600	Hysol GR640
Die Attach	NON-COND EPOXY, ABLESTICK 2200D	Eutectic
Package Type	TSOP5, TSOP6, SOT23	SC74A, SC74, SC74A
Plating	100% Sn, 100% Sn, PPF	100% Sn

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS S82713, L85044 and S82725.

QV DEVICE NAME: MC74VHC1G08P5T5G

PACKAGE: SOT953

➤ **Assembly changes:**

	From	To
Assembly Site	onsemi Leshan Phoenix Semiconductor	
Wire Type	Au or Cu	Cu
Mold Compound	Showa Denko GE200F or Hysol GR640 HV	Hysol GR640 HV

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS S87090.



Final Product/Process Change Notification

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QV DEVICE NAME: NL17SZ08XV5T2GH

PACKAGE: SOT553

➤ **Assembly changes:**

	From	To
Assembly Site	onsemi Leshan Phoenix Semiconductor	
Bond Wire	Au or Cu	Cu
Mold Compound	Showa Denko GE200F	Hysol GR640 HV

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS S87092.



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QV DEVICE NAME: NL17SZ08MU1TCG and NL27WZ17MU1TCG

PACKAGE: UDFN6

➤ **UDFN6 1.45x1.0 Assembly changes:**

	From	To	
Assembly Site	onsemi Seremban, Tarlac, Stars	onsemi Seremban	onsemi Tarlac
Mold Compound	G760, EME-G770HM , EME-G760 , EME G700LTD	Sumitomo EME-G770HM	SUMITOMO EME-G760
Wire Type	Au or PCC	PCC	PCC
Lead Frame	PPF, LF UDFN 6L 1.45X1 PPF	LF PPF Plated (C7025)	LF PPF PLATED (C7025)
Die Attach	8006NS, HR-5104 Non Cond	8006NS	8006NS

➤ **UDFN6 1.2x1.0 Assembly changes:**

	From	To	
Assembly Site	onsemi Seremban, ATX Shanghai, AMKOR, UTAC, Tarlac	onsemi Seremban	onsemi Tarlac
Mold Compound	EME-G770HM, G631H, G700Y, G700HCD, EME-G760	Sumitomo EME-G770HM	SUMITOMO EME-G760
Wire Type	Au or PCC	PCC	PCC
Lead Frame	PPF, Rough PPF, LF sMLF 6L COL C7025, FRAME FR 6L UDFN 1.2X1.0M	LF PPF PLATED (C7025)	LF PPF PLATED (C7025)
Die Attach	8006NS, ATB-F125E, NEX-130CTX-N5	8006NS	8006NS

➤ **UDFN6 1.0x1.0 Assembly changes:**

	From	To	
Assembly Site	onsemi Seremban, Tarlac	onsemi Seremban	onsemi Tarlac
Mold Compound	G760, EME-G770HM, EME-G760	Sumitomo EME-G770HM	SUMITOMO EME-G760
Wire Type	Au or PCC	PCC	PCC
Lead Frame	PPF	LF PPF PLATED (C7025)	LF PPF PLATED (C7025)

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS S87093, S87094, S87313 and S87316.



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QV DEVICE NAME: MC74VHC3G14MU3TCG

PACKAGE: uDFN8

➤ **uDFN8 1.45*1.0 Assembly changes:**

	From		To	
Assembly Site	onsemi Seremban	onsemi Tarlac	onsemi Seremban	onsemi Tarlac
Lead Frame	PPF	PPF	LF PPF PLATED (C7025)	LF PPF PLATED (C7025)

➤ **uQFN8 1.6*1.6 Assembly changes:**

	From	To	
Assembly Site	onsemi Seremban, ATX Shanghai, AMKOR, Tarlac	onsemi Seremban	onsemi Tarlac
Mold Compound	G760, G631H, G700Y, EME-G770HM, EME-G760	Sumitomo EME-G770HM	SUMITOMO EME-G760
Wire Type	Au or PCC	PCC	PCC
Lead Frame	PPF, Rough PPF, Rough PPF	LF PPF PLATED (C7025)	LF PPF PLATED (C7025)
Die Attach	8006NS, ATB-F125E, NEX-130CTX-N5		

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 87960 and 87889.

QV DEVICE NAME: NC7SZ14L6X, NC7WZ14FHX

PACKAGE: MicroPak and MicroPak 2

➤ **MicroPak Assembly Changes:**

	From	To
Assembly Site	Stars, Hana, UTAC	Stars
Wire	PCC, Au, Au	PCC
Lead frame	PPF, PPF, PPF	PPF
Mold Compound	EME G700LTD, CEL9220HF13H, G770HCD	EME G700LTD
Die Attach	HR-5104, 8006NS, 8006NS	HR-5104

➤ **MicroPak2 Assembly Changes:**

	From	To
Assembly Site	Stars, Hana, UTAC	Stars
Wire	PCC, Au, Au	PCC
Lead frame	PPF, PPF, PPF	PPF
Mold Compound	EME G700LTD, CEL9220HF13H, G770HCD	EME G700LTD
Die Attach	HR-5104, 8006NS, 8006NS	HR-5104

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 87728 and 87726.

QV DEVICE NAME: NC7WZ132K8X

PACKAGE: US8

➤ **US8 Assembly Changes:**

	From	To
Assembly Site	Stars, onsemi Seremban, Hana	Stars
Wire	PCC, PCC, Au, Au	PCC
Lead frame	PPF, PPF, CuAg, CuAg	PPF
Mold Compound	EME G600, EME-G600FB, EME-G600 HF	EME G600
Die Attach	HR-5104, 8006NS, 8900NC, ABLESTIK 84-1	HR-5104

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet

➤ **Reliability Summary:** Refer to embedded excel RMS 87355.

QV DEVICE NAME: NC7WZ132L8X

PACKAGE: MicroPak 8L

➤ **MicroPak 8L Assembly Changes:**

	From	To
Assembly Site	Stars, Hana	Stars
Wire	PCC, Au	PCC
Lead frame	PPF, PPF	PPF
Mold Compound	EME G700LTD, CEL9220HF13H	EME G700LTD
Die Attach	HR-5104, 8006NS	HR-5104

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 91332.

3V MiniGate Logic

QV DEVICE NAME: NC7SV157P6X

PACKAGE: SC88

➤ **SC88 Assembly changes:**

	From	To
Assembly Site	Hana, onsemi Cebu	onsemi Leshan Phoenix Semiconductor
Wire	Au, Au	Cu
Leadframe	PPF, C194	A42 Stamped
Mold Compound	G600 HF, CK5000A	GR640HV
Die Attach	2200D, 84-1LMIS4R	N/A – Eutectic
Plating	Preplated, 100% Sn	100% Sn

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 91004.

QV DEVICE NAME: NC7SP14P5X

PACKAGE: SC88A

➤ **SC88A Assembly changes:**

	From	To
Assembly Site	Hana, onsemi Cebu, onsemi Leshan Phoenix Semiconductor	onsemi Leshan Phoenix Semiconductor
Wire	Au, Au, Au	Cu
Leadframe	PPF, C194, A42 stamped	A42 Stamped
Mold Compound	G600 HF, CK5000A, GR640HV	GR640HV
Die Attach	2200D, 84-1LMIS4R, N/A – Eutectic	N/A – Eutectic
Plating	Preplated, 100% Sn	100% Sn

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 88008.



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3V MiniGate Logic

QV DEVICE NAME: NL17SG14P5T5G

PACKAGE: SOT953

➤ **Assembly changes:**

	From	To
Assembly Site	onsemi Leshan Phoenix Semiconductor	
Bond Wire	Au	Cu
Mold Compound	Showa Denko GE200F or Hysol GR640 HV	Hysol GR640 HV

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 88110.

QV DEVICE NAME: NL17SV16XV5T2G

PACKAGE: SOT553

➤ **Assembly changes:**

	From	To
Assembly Site	onsemi Leshan Phoenix Semiconductor	
Bond Wire	Au	Cu
Mold Compound	Showa Denko GE200F	Hysol GR640 HV

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 88114.

3V MiniGate Logic

QV DEVICE NAME: NC7SPU04L6X, NC7SV08FHX

PACKAGE: MicroPak and MicroPak 2

➤ **MicroPak Assembly Changes:**

	From	To
Assembly Site	Stars, Hana, UTAC	Stars
Wire	PCC, Au, Au	PCC
Lead frame	PPF, PPF, PPF	PPF
Mold Compound	EME G700LTD, CEL9220HF13H, G770HCD	EME G700LTD
Die Attach	HR-5104, 8006NS, 8006NS	HR-5104

➤ **MicroPak2 Assembly Changes:**

	From	To
Assembly Site	Stars, Hana, UTAC	Stars
Wire	PCC, Au, Au	PCC
Lead frame	PPF, PPF, PPF	PPF
Mold Compound	EME G700LTD, CEL9220HF13H, G770HCD	EME G700LTD
Die Attach	HR-5104, 8006NS, 8006NS	HR-5104

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 88230 and 90908.

HC, LCX, LVX, VHC, FACT and LV Logic, Bus Switch, 5V Analog Switch

QV DEVICE NAME: NLV74HC595ADTR2G, MC74LVX4051DTR2G, NLVHC4851ADTR2G, MC74LCX14DTR2G, NLV74HC244ADTR2G, MC74HC244ADTR2G

PACKAGE: TSSOP-14, TSSOP-16, TSSOP-20, TSSOP-48

➤ **TSSOP-14 Assembly changes:**

	From	To	
Assembly Site	onsemi Carmona, ATEC	onsemi Carmona	ATEC
Mold Compound	G600, G700LS	G700LS	G600
Wire Type	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC
Lead Frame	PPF	PPF	Cu with Ag spot

➤ **TSSOP-16 Assembly changes:**

	From	To	
Assembly Site	onsemi Carmona, ATEC	onsemi Carmona	ATEC
Mold Compound	G600, G700LS	G700LS	G600
Wire Type	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC
Lead Frame	PPF	PPF	Cu with Ag spot

➤ **TSSOP-20 Assembly changes:**

	From	To	
Assembly Site	onsemi Carmona, ATEC	onsemi Carmona	ATEC
Mold Compound	G700LS, CEL800JF	G700LS	G700LS
Epoxy	QMI519, CRM-1076WB	CRM-1076WB	CRM-1076WB
Wire Type	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC

➤ **TSSOP-48 Assembly Changes:**

Not defined yet, FPCN will be updated when data is available

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS O88463, O89920, O89358, 88467, 89368, 89374, 89375, 88468, 89399, 89395, 89401 and TBD (TSSOP48)



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HC, LCX, LVX, VHC, FACT and LV Logic, Bus Switch, 5V Analog Switch

QV DEVICE NAME: MC74LCX14DR2G, NLV74HC595ADR2G, MC74HC595ADR2G, MC74LVX4051DR2G, NLV74HC4851ADR2G, MC74HC4851ADR2G, NLV74HC244ADWR2G, MC74HC244ADWR2G
 PACKAGE: SOIC-14, SOIC-16, and SOICW-20

➤ For SOIC-14 package assembly changes:

	From	To		
Assembly Site	onsemi Carmona, Hana Micro., ATX Kunshan, ASE Chungli	onsemi Carmona	Hana Micro.	ATX Kunshan
LeadFrame	Cu with Ag spot	Cu with Ag spot	PPF	Cu with Ag spot
Bond Wire	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC	1 mil PCC
Die Attach	CRM-1076WB, EN4900GC	CRM-1076WB	CRM-1076WB	EN4900GC
Mold Compound	G600, CEL9240HF10AK	G600	G600	CEL9240HF10AK

➤ For SOIC-16 package assembly changes:

	From	To		
Assembly Site	onsemi Carmona, ATEC, ATX Kunshan, ASE Chungli	onsemi Carmona	ATEC	ATX Kunshan
Bond Wire	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC	1 mil PCC
Die Attach	CRM-1076WB, EN4900GC	CRM-1076WB	CRM-1076WB	EN4900GC
Mold Compound	G600, CEL9240HF10AK	G600	G600	CEL9240HF10AK

➤ For SOICW-20 package assembly changes:

	From	To	
Assembly Site	onsemi Carmona, ATEC, Greatek, ASE Chungli	onsemi Carmona	Greatek
Bond Wire	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC
Die Attach	CRM-1076WB	CRM-1076WB	EN4900GC
Mold Compound	G600	G600	G600F

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 89379, 89388, 89394, 89362, 89365, 89367, 89369, 89370, 89372, 88465, 89376, 89377, 89396 and 89402.

HC, LCX, LVX, VHC, FACT and LV Logic, Bus Switch, 5V Analog Switch

QV DEVICE NAME: 74LCX14BQX, NLV74HC595AMN1TWG, MC74LVX4051MNTWG, NLV68SZ126MN2TWG, 74LCX244BQX
PACKAGE: QFN-14, QFN-16, and QFN-20

➤ For QFN-14 package assembly changes:

	From	To
Assembly Site	Hana Micro.	onsemi Tarlac
Die Attach	ABLETHERM 8600	CRM-1076WB
Bond Wire	1 mil Au	1 mil PCC
Mold Compound	CEL9220HF13H	G770HMD

➤ For QFN-16 (2.5 mm x 3.5 mm x 0.5 mm) package assembly changes:

	From	To	
Assembly Site	Hana Micro., Stars Micro.	onsemi Tarlac	onsemi Seremban
LeadFrame	PPF	Cu with Ag spot, PPF	Cu with Ag spot
Die Attach	HR-5104, ABLETHERM 8600	CRM-1076WB	WBC 8006NS
Bond Wire	0.8 mil Au, 1 mil Au	0.8 mil PCC, 1 mil PCC	0.8 mil PCC
Mold Compound	G700LTD, CEL9220HF13H	G770HMD	G770HMD

➤ For QFN-16 (3 mm x 3 mm x 0.5 mm) package assembly changes:

	From	To
Assembly Site	Stars Micro.	onsemi Tarlac
LeadFrame	PPF	Cu with Ag Spot
Die Attach	8200TI	CRM-1076WB
Bond Wire	1 mil Au	1 mil PCC
Mold Compound	G700LTD	G770HMD

➤ For QFN-20 package assembly changes:

	From	To
Assembly Site	Hana Micro., Stars Micro.	onsemi Tarlac
Die Attach	HR-5104, ABLETHERM 8600	CRM-1076WB
Bond Wire	0.8 mil Au, 1 mil Au	1 mil PCC
Mold Compound	CEL9220HF13H, G700LTD	G770HMD

➤ **Electrical Characteristics:** Refer to tables at the end of this document for changes to datasheet.

➤ **Reliability Summary:** Refer to embedded excel RMS 89447, 89269, 89405, 89440, 89427, 89442 and 89448

HC, LCX, LVX, VHC, FACT and LV Logic, Bus Switch, 5V Analog Switch

Additional QVs for some remaining products TBD, FPCN to be updated when information is available.

3V Translator, Autosense Translator, Bus Interface, 12V Analog Switch, FST Logic

QV DEVICE NAME: TBD

Qual vehicles and change information for these product families is still being developed. FPCN will be updated when information is available. Estimated dates for sample availability and qualification are available in the file attached.

5 V MiniGate Logic Datasheet Changes

There are no expected datasheet changes to the 5 V Minigate logic devices.

3 V MiniGate Logic Datasheet Changes

NL17SGxx Family

Absolute Maximum Ratings and Recommended Operating Conditions

Existing Datasheet

MAXIMUM RATINGS				
Symbol	Parameter	Value	Unit	
V _{CC}	DC Supply Voltage	-0.5 to +5.5	V	
V _{IN}	DC Input Voltage	-0.5 to +4.6	V	
V _{OUT}	DC Output Voltage	Output at High or Low State Power-Down Mode (V _{CC} = 0 V)	-0.5 to +4.6 -0.5 to +4.6	V

RECOMMENDED OPERATING CONDITIONS					
Symbol	Characteristics	Min	Max	Unit	
V _{CC}	Positive DC Supply Voltage	0.9	3.6	V	
V _{IN}	Digital Input Voltage	0.0	3.6	V	
V _{OUT}	Output Voltage	Output at High or Low State Power-Down Mode (V _{CC} = 0 V)	0.0 V _{CC} 3.6	V	
T _A	Operating Temperature Range	-55	+125	°C	
Δt / ΔV	Input Transition Rise or Fall Rate	V _{CC} = 3.3 V ± 0.3 V		0 10	ns/V

New

MAXIMUM RATINGS				
Symbol	Parameter	Value	Unit	
V _{CC}	DC Supply Voltage	-0.5 to +4.3	V	
V _{IN}	DC Input Voltage	-0.5 to +4.3	V	
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to +0.5 -0.5 to +4.3 -0.5 to +4.3	V

Table 1. RECOMMENDED OPERATING CONDITIONS					
Symbol	Parameter	Min	Max	Unit	
V _{CC}	Positive DC Supply Voltage	0.9	3.6	V	
V _{IN}	Digital Input Voltage	0	3.6	V	
V _{OUT}	Output Voltage	Active Mode (High or Low State) Tri-State Mode (Note 1) Power Down Mode (V _{CC} = 0 V)	0 3.6 0	V _{CC} V	
T _A	Operating Free-Air Temperature	-55	+125	°C	
t _r , t _f	Input Transition Rise or Fall Rate	V _{CC} = 3.3 V ± 0.3 V		0 10	ns/V

DC Input Characteristics for NL17SGxx except for NL17SG14, NL17SG17 and NL17SGU04

Existing Datasheet

DC ELECTRICAL CHARACTERISTICS						
Symbol	Parameter	Conditions	V _{CC} (V)	T _A = 25°C		Unit
				Min	Max	
V _{IH}	High-Level Input Voltage		0.9	V _{CC}	V _{CC}	V
			1.1 to 1.3	0.7xV _{CC}	0.7xV _{CC}	
			1.4 to 1.6	0.65xV _{CC}	0.65xV _{CC}	
			1.65 to 1.95	0.65xV _{CC}	0.65xV _{CC}	
			2.3 to 2.7	1.7	1.7	
			3.0 to 3.6	2.0	2.0	
V _{IL}	Low-Level Input Voltage		0.9	GND	GND	V
			1.1 to 1.3	0.3xV _{CC}	0.3xV _{CC}	
			1.4 to 1.6	0.35xV _{CC}	0.35xV _{CC}	
			1.65 to 1.95	0.35xV _{CC}	0.35xV _{CC}	
			2.3 to 2.7	0.7	0.7	
			3.0 to 3.6	0.8	0.8	

New

Table 2. DC ELECTRICAL CHARACTERISTICS								
Symbol	Parameter	Conditions	V _{CC} (V)	T _A = 25°C			Unit	
				Min	Typ	Max		
V _{IH}	High-Level Input Voltage		0.9	-	V _{CC}	-	-	V
			1.1 to 1.3	0.7 × V _{CC}	-	-	0.7 × V _{CC}	
			1.4 to 1.6	0.65 × V _{CC}	-	-	0.65 × V _{CC}	
			1.65 to 1.95	0.65 × V _{CC}	-	-	0.65 × V _{CC}	
			2.3 to 2.7	1.7	-	-	1.7	
			3.0 to 3.6	2.0	-	-	2.0	
V _{IL}	Low-Level Input Voltage		0.9	-	GND	-	-	V
			1.1 to 1.3	-	0.3 × V _{CC}	-	0.3 × V _{CC}	
			1.4 to 1.6	-	0.35 × V _{CC}	-	0.35 × V _{CC}	
			1.65 to 1.95	-	0.35 × V _{CC}	-	0.35 × V _{CC}	
			2.3 to 2.7	-	0.7	-	0.7	
			3.0 to 3.6	-	0.8	-	0.8	

3 V MiniGate Logic Datasheet Changes

DC Input Characteristics for NL17SGxx except for NL17SG14 and NL17SG17

Existing Datasheet

DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			-55°C ≤ T _A ≤ 125°C		Unit
				Min	Typ	Max	Min	Max	
V _{T+}	Positive-Going Input Threshold Voltage		0.9	0.64	0.7	0.86	0.62	0.87	V
			1.1	0.73	0.81	0.95	0.71	1	
			1.4	0.86	0.94	1.16	0.84	1.2	
			1.65	0.95	1.06	1.25	0.94	1.3	
			2.3	1.22	1.36	1.6	1.18	1.65	
			3.0	1.51	1.8	2.05	1.38	2.1	
V _{T-}	Negative-Going Input Threshold Voltage		0.9	0.09	0.23	0.30	0.08	0.33	V
			1.1	0.15	0.33	0.39	0.12	0.43	
			1.4	0.3	0.47	0.54	0.25	0.55	
			1.65	0.35	0.6	0.65	0.3	0.65	
			2.3	0.55	0.85	0.88	0.5	0.88	
			3.0	0.95	1.13	1.16	0.9	1.16	
V _H	Hysteresis Voltage		0.9	0.15	0.5	0.75	0.2	0.8	V
			1.1	0.15	0.5	0.75	0.2	0.8	
			1.4	0.15	0.5	0.75	0.2	0.8	
			1.65	0.15	0.5	0.75	0.2	0.8	
			2.3	0.15	0.5	0.75	0.2	0.8	
			3.0	0.25	0.65	0.85	0.3	0.9	

New

Table 3. DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = 25°C			T _A = -55°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
V _{T+}	Positive Going Input Threshold Voltage		0.9	-	0.7	-	-	-	V
			1.1	-	0.81	0.95	-	0.95	
			1.4	-	0.94	1.16	-	1.16	
			1.65	-	1.06	1.3	-	1.3	
			2.3	-	1.36	1.73	-	1.73	
			3.0	-	1.8	2.24	-	2.24	
V _{T-}	Negative Going Input Threshold Voltage		0.9	-	0.23	-	-	-	V
			1.1	0.15	0.33	-	0.15	-	
			1.4	0.3	0.47	-	0.3	-	
			1.65	0.35	0.6	-	0.35	-	
			2.3	0.55	0.85	-	0.55	-	
			3.0	0.95	1.13	-	0.95	-	
V _H	Hysteresis Voltage		0.9	-	0.27	-	-	-	V
			1.1	0.2	0.35	0.8	0.2	0.8	
			1.4	0.25	0.41	0.86	0.25	0.86	
			1.65	0.30	0.46	0.9	0.30	0.9	
			2.3	0.40	0.56	1.05	0.40	1.05	
			3.0	0.49	0.59	1.1	0.49	1.1	

DC Input Characteristics for NL17SGU04-Q - TBD

DC Output Characteristics for NL17SGxx

Existing Datasheet

DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			-55°C ≤ T _A ≤ 125°C		Unit
				Min	Typ	Max	Min	Max	
V _{OH}	High-Level Output Voltage	V _{OH} = V _{IH} or V _{IL} I _{OH} = -20 μA	0.9	0.75		0.75			V
			I _{OH} = -0.3 mA	1.1 to 1.3	0.75 x V _{CC}		0.75 x V _{CC}		
			I _{OH} = -1.7 mA	1.4 to 1.6	0.75 x V _{CC}		0.75 x V _{CC}		
			I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} - 0.45		V _{CC} - 0.45		
			I _{OH} = -4.0 mA	2.3 to 2.7	2.0		2.0		
			I _{OH} = -8.0 mA	3.0 to 3.6	2.48		2.48		
V _{OL}	Low-Level Output Voltage	V _{OH} = V _{IH} or V _{IL} I _{OL} = 20 μA	0.9		0.1		0.1		V
			I _{OL} = 0.3 mA	1.1 to 1.3		0.25 x V _{CC}		0.25 x V _{CC}	
			I _{OL} = 1.7 mA	1.4 to 1.6		0.25xV _{CC}		0.25 x V _{CC}	
			I _{OL} = 3.0 mA	1.65 to 1.95		0.45		0.45	
			I _{OL} = 4.0 mA	2.3 to 2.7		0.4		0.4	
			I _{OL} = 8.0 mA	3.0 to 3.6		0.4		0.4	

New

Table 3. DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = 25°C			T _A = -55°C to -125°C		Unit	
				Min	Typ	Max	Min	Max		
V _{OH}	High-Level Output Voltage	V _{IH} = V _{IH} or V _{IL} I _{OH} = -20 μA	0.9	-	0.75	-	-	-	V	
			I _{OH} = -0.3 mA	1.1 to 1.3	0.75 x V _{CC}	-	-	0.75 x V _{CC}		
			I _{OH} = -1.7 mA	1.4 to 1.6	0.75 x V _{CC}	-	-	0.75 x V _{CC}		
			I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} - 0.45	-	-	V _{CC} - 0.45		
			I _{OH} = -4.0 mA	2.3 to 2.7	2.0	-	-	2.0		
			I _{OH} = -8.0 mA	3.0 to 3.6	2.48	-	-	2.48		
V _{OL}	Low-Level Output Voltage	V _{IH} = V _{IH} or V _{IL} I _{OL} = 20 μA	0.9	-	0.1	-	-	-	V	
			I _{OL} = 0.3 mA	1.1 to 1.3	-	-	0.25 x V _{CC}	-		0.25 x V _{CC}
			I _{OL} = 1.7 mA	1.4 to 1.6	-	-	0.25 x V _{CC}	-		0.25 x V _{CC}
			I _{OL} = 3.0 mA	1.65 to 1.95	-	-	0.45	-		0.45
			I _{OL} = 4.0 mA	2.3 to 2.7	-	-	0.4	-		0.4
			I _{OL} = 8.0 mA	2.7 to 3.6	-	-	0.4	-		0.4

AC Characteristics for NL17SGxx except for NL17SG125 and NL17SG126

3 V MiniGate Logic Datasheet Changes

Existing Datasheet

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

Symbol	Parameter	Test Condition	V_{CC} (V)	$T_A = 25^\circ\text{C}$			$T_A = -55^\circ\text{C to } +125^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	
t_{PLH} , t_{PHL}	Propagation Delay, A to Y	$C_L = 10$ pF, $R_L = 1$ M Ω	0.9	-	27.3	-	-	-	ns
			1.1 to 1.3	-	13.0	22.6	1.0	35.9	
			1.4 to 1.6	-	7.5	10.5	1.0	11.3	
			1.65 to 1.95	-	6.0	7.8	1.0	8.2	
			2.3 to 2.7	-	4.3	5.4	1.0	5.8	
			3.0 to 3.6	-	3.5	4.4	1.0	4.6	
		$C_L = 15$ pF, $R_L = 1$ M Ω	0.9	-	29.5	-	-	-	ns
			1.1 to 1.3	-	14.3	25.1	1.0	41.6	
			1.4 to 1.6	-	8.0	11.5	1.0	12.6	
			1.65 to 1.95	-	6.3	8.4	1.0	8.7	
			2.3 to 2.7	-	4.6	5.7	1.0	6.1	
			3.0 to 3.6	-	3.7	4.6	1.0	5.0	
$C_L = 30$ pF, $R_L = 1$ M Ω	0.9	-	40.5	-	-	-	ns		
	1.1 to 1.3	-	19.6	35.7	1.0	58.1			
	1.4 to 1.6	-	10.7	15.8	1.0	17.6			
	1.65 to 1.95	-	7.8	10.7	1.0	11.7			
	2.3 to 2.7	-	5.4	6.9	1.0	8.1			
	3.0 to 3.6	-	4.3	5.2	1.0	6.1			

New

Table 4. AC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test Condition	V_{CC} (V)	$T_A = 25^\circ\text{C}$			$T_A = -55^\circ\text{C to } +125^\circ\text{C}$		Unit	
				Min	Typ	Max	Min	Max		
t_{PLH} , t_{PHL}	Propagation Delay, A to Y (Figures 2 and 3)	$C_L = 10$ pF, $R_L = 1$ M Ω	0.9	-	TBD	-	-	-	ns	
			1.1 to 1.3	-	TBD	TBD	-	TBD		
			1.4 to 1.6	-	TBD	TBD	10.5	-	11.3	
			1.65 to 1.95	-	TBD	TBD	7.8	-	8.2	
			2.3 to 2.7	-	TBD	TBD	5.4	-	5.8	
			3.0 to 3.6	-	TBD	TBD	4.4	-	4.6	
		$C_L = 15$ pF, $R_L = 1$ M Ω	0.9	-	TBD	-	-	-	ns	
			1.1 to 1.3	-	TBD	TBD	-	TBD		
			1.4 to 1.6	-	TBD	TBD	11.5	-	12.6	
			1.65 to 1.95	-	TBD	TBD	8.4	-	8.7	
			2.3 to 2.7	-	TBD	TBD	5.7	-	6.1	
			3.0 to 3.6	-	TBD	TBD	4.6	-	5.0	
$C_L = 30$ pF, $R_L = 1$ M Ω	0.9	-	TBD	-	-	-	ns			
	1.1 to 1.3	-	TBD	TBD	-	TBD				
	1.4 to 1.6	-	TBD	TBD	15.8	-	17.6			
	1.65 to 1.95	-	TBD	TBD	10.7	-	11.7			
	2.3 to 2.7	-	TBD	TBD	6.9	-	8.1			
	3.0 to 3.6	-	TBD	TBD	5.2	-	6.1			

AC Characteristics for NL17SG125 and NL17SG126

Existing Datasheet

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

Symbol	Parameter	Test Condition	V_{CC} (V)	$T_A = 25^\circ\text{C}$			$T_A = -55^\circ\text{C to } +125^\circ\text{C}$		Unit
				Min	t_{ON}	Max	Min	Max	
t_{PHZ} , t_{PLZ}	Output Disable Time, OE to Y	$C_L = 10$ pF, $R_L = 100$ k Ω	0.9	-	100.4	-	-	-	ns
			1.1 to 1.3	-	9.1	14.4	-	22.4	
			1.4 to 1.6	-	7.1	9.1	-	10.4	
			1.65 to 1.95	-	6.5	8.3	-	9	
			2.3 to 2.7	-	5.8	7.3	-	8.8	
			3.0 to 3.6	-	5.4	6.9	-	7.6	
		$C_L = 15$ pF, $R_L = 100$ k Ω	0.9	-	122.2	-	-	-	ns
			1.1 to 1.3	-	9.8	15.3	-	25.1	
			1.4 to 1.6	-	7.8	9.8	-	11.3	
			1.65 to 1.95	-	7.2	9.2	-	10.6	
			2.3 to 2.7	-	7	8.2	-	10.3	
			3.0 to 3.6	-	6.6	7.7	-	9.5	
$C_L = 30$ pF, $R_L = 100$ k Ω	0.9	-	217.1	-	-	-	ns		
	1.1 to 1.3	-	13.2	19.6	-	31.9			
	1.4 to 1.6	-	12.2	13.5	-	14.9			
	1.65 to 1.95	-	11.4	12.7	-	13.9			
	2.3 to 2.7	-	11.3	12.2	-	13.5			
	3.0 to 3.6	-	10.2	11.5	-	12.9			

New

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

Symbol	Parameter	Test Condition	V_{CC} (V)	$T_A = 25^\circ\text{C}$			$T_A = -55^\circ\text{C to } +125^\circ\text{C}$		Unit	
				Min	t_{ON}	Max	Min	Max		
t_{PHZ} , t_{PLZ}	Output Disable Time, OE to Y	$C_L = 10$ pF, $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	ns	
			1.1 to 1.3	-	TBD	TBD	-	TBD		
			1.4 to 1.6	-	TBD	TBD	9.1	-	10.4	
			1.65 to 1.95	-	TBD	TBD	8.3	-	9	
			2.3 to 2.7	-	TBD	TBD	7.3	-	8.8	
			3.0 to 3.6	-	TBD	TBD	6.9	-	-	
		$C_L = 15$ pF, $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	ns	
			1.1 to 1.3	-	TBD	TBD	-	TBD		
			1.4 to 1.6	-	TBD	TBD	9.8	-	11.3	
			1.65 to 1.95	-	TBD	TBD	9.2	-	10.6	
			2.3 to 2.7	-	TBD	TBD	8.2	-	10.3	
			3.0 to 3.6	-	TBD	TBD	7.7	-	-	
$C_L = 30$ pF, $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	ns			
	1.1 to 1.3	-	TBD	TBD	-	TBD				
	1.4 to 1.6	-	TBD	TBD	13.5	-	14.9			
	1.65 to 1.95	-	TBD	TBD	12.7	-	13.9			
	2.3 to 2.7	-	TBD	TBD	12.2	-	13.5			
	3.0 to 3.6	-	TBD	TBD	11.5	-	12.9			

3 V MiniGate Logic Datasheet Changes

t_{pZH} , t_{pZL}	Output Enable Time, OE to Y	$C_L = 10$ pF; $R_L = 100$ k Ω	0.9	-	11.0	13.3	-	15.8	ns
		$R_L = 5$ k Ω	1.1 to 1.3	-	8.4	10.9	-	13.0	
		$R_L = 5$ k Ω	1.4 to 1.6	-	5.3	7.8	-	8.3	
		$R_L = 5$ k Ω	1.65 to 1.95	-	3.9	5.5	-	5.9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	2.5	3.5	-	3.8	
		$R_L = 5$ k Ω	3.0 to 3.6	-	2.1	2.7	-	3	
		$C_L = 15$ pF; $R_L = 100$ k Ω	0.9	-	12.0	14.8	-	17.0	
		$R_L = 5$ k Ω	1.1 to 1.3	-	9.0	11.7	-	13.8	
		$R_L = 5$ k Ω	1.4 to 1.6	-	5.9	8.9	-	11	
		$R_L = 5$ k Ω	1.65 to 1.95	-	4.4	6.3	-	6.5	
		$R_L = 5$ k Ω	2.3 to 2.7	-	2.9	3.9	-	4.2	
		$R_L = 5$ k Ω	3.0 to 3.6	-	2.3	3	-	3.3	
		$C_L = 30$ pF; $R_L = 100$ k Ω	0.9	-	13.0	15.2	-	18.3	
		$R_L = 5$ k Ω	1.1 to 1.3	-	10.0	13.1	-	15.2	
		$R_L = 5$ k Ω	1.4 to 1.6	-	8.3	12.2	-	13.7	
		$R_L = 5$ k Ω	1.65 to 1.95	-	6.1	8.6	-	9.7	
		$R_L = 5$ k Ω	2.3 to 2.7	-	3.8	5	-	5.5	
		$R_L = 5$ k Ω	3.0 to 3.6	-	2.9	3.8	-	4.2	
		$C_L = 10$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	7.8	-	8.3	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	5.5	-	5.9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	3.5	-	3.8	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	2.7	-	-	
		$C_L = 15$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	8.9	-	11	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	6.3	-	6.5	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	3.9	-	4.2	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	3	-	-	
		$C_L = 30$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	12.2	-	13.7	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	8.6	-	9.7	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	5	-	5.5	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	3.8	-	4.2	
t_{pHZ} , t_{pLZ}	Output Disable Time, OE to Y	$C_L = 10$ pF; $R_L = 100$ k Ω	0.9	-	100.4	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	9.1	14.4	-	22.4	
		$R_L = 5$ k Ω	1.4 to 1.6	-	7.1	9.1	-	10.4	
		$R_L = 5$ k Ω	1.65 to 1.95	-	6.5	8.3	-	9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	5.8	7.3	-	8.8	
		$R_L = 5$ k Ω	3.0 to 3.6	-	5.4	6.9	-	7.6	
		$C_L = 15$ pF; $R_L = 100$ k Ω	0.9	-	122.2	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	9.8	15.3	-	25.1	
		$R_L = 5$ k Ω	1.4 to 1.6	-	7.8	9.8	-	11.3	
		$R_L = 5$ k Ω	1.65 to 1.95	-	7.2	9.2	-	10.6	
		$R_L = 5$ k Ω	2.3 to 2.7	-	7	8.2	-	10.3	
		$R_L = 5$ k Ω	3.0 to 3.6	-	6.6	7.7	-	9.5	
		$C_L = 30$ pF; $R_L = 100$ k Ω	0.9	-	217.1	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	13.2	19.6	-	31.9	
		$R_L = 5$ k Ω	1.4 to 1.6	-	12.2	13.5	-	14.9	
		$R_L = 5$ k Ω	1.65 to 1.95	-	11.4	12.7	-	13.9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	11.3	12.2	-	13.5	
		$R_L = 5$ k Ω	3.0 to 3.6	-	10.2	11.5	-	12.9	
		$C_L = 10$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	9.1	-	10.4	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	8.3	-	9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	7.3	-	8.8	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	6.9	-	-	
		$C_L = 15$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	9.8	-	11.3	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	9.2	-	10.6	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	8.2	-	10.3	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	7.7	-	-	
		$C_L = 30$ pF; $R_L = 100$ k Ω	0.9	-	TBD	-	-	-	
		$R_L = 5$ k Ω	1.1 to 1.3	-	TBD	TBD	-	TBD	
		$R_L = 5$ k Ω	1.4 to 1.6	-	TBD	13.5	-	14.9	
		$R_L = 5$ k Ω	1.65 to 1.95	-	TBD	12.7	-	13.9	
		$R_L = 5$ k Ω	2.3 to 2.7	-	TBD	12.2	-	13.5	
		$R_L = 5$ k Ω	3.0 to 3.6	-	TBD	11.5	-	12.9	

NC7SPxx, NC7WPxx, NC7NPxx Family

Absolute Maximum Ratings

Existing Datasheet

Absolute Maximum Ratings (Note 1)

Supply Voltage (V_{CC})	-0.5V to +4.6V
DC Input Voltage (V_{IN})	-0.5V to +4.6V
DC Output Voltage (V_{OUT})	-0.5V to $V_{CC} + 0.5V$
HIGH or LOW State (Note 2)	-0.5V to $V_{CC} + 0.5V$
$V_{CC} = 0V$	-0.5V to 4.6V

New

Maximum Ratings

Symbol	Parameter	Value	Unit
V_{CC}	DC Supply Voltage	-0.5 to +4.3	V
V_{IN}	DC Input Voltage	-0.5 to +4.3	V
V_{OUT}	DC Output Voltage	Active-Mode (High or Low State)	-0.5 to $V_{CC} + 0.5$
		Tri-State Mode (Note 1)	-0.5 to +4.3
		Power-Down Mode ($V_{CC} = 0V$)	-0.5 to +4.3

3 V MiniGate Logic Datasheet Changes

t_{PHL} t_{PLH}	Propagation Delay	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	5.5 12.0 23.4 5.0 51.1	34.0 23.4 17.7 14.0 9.9	5.0 17.7 14.0 9.9	51.1	ns	C _L = 30 pF R _L = 1MΩ	Figures 1, 2	t_{PLH} t_{PHL}	Propagation Delay, A to Y (Figures 3 and 4)	R _L = 1 MΩ, C _L = 30 pF	0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	TBD TBD TBD TBD TBD TBD	- - - - - -	- - - - - -	- - - - - -	51.1 17.7 14.0 9.9 8.9	ns
t_{PD} t_{ZL}	Output Enable Time	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	6.0 13.0 4.0 2.0 1.0 0.8	13.0 24.4 8.0 6.0 5.0 4.0	5.0 17.9 2.0 1.0 1.1	51.9	ns	C _L = 30 pF R _U = 5000Ω R _O = 5000Ω S ₁ = GND for t_{PD} S ₁ = V _I for t_{ZL}	Figures 1, 2	t_{PD} t_{ZL}	Output Enable Time, OE to Y (Figures 3 and 4)	R _L = R _O = 5 kΩ, C _L = 30 pF	0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	TBD TBD TBD TBD TBD TBD	- - - - - -	- - - - - -	- - - - - -	51.9 17.9 14.7 11.1 10.1	ns
t_{PHZ} t_{PLZ}	Output Disable Time	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	6.0 13.0 4.0 2.0 1.0 0.8	13.0 24.8 18.1 8.0 17.5	5.0 22.0 3.0 2.0 0.5	53.5	ns	C _L = 30 pF R _U = 5000Ω R _O = 5000Ω S ₁ = GND for t_{PHZ} S ₁ = V _I for t_{PLZ}	Figures 1, 2	t_{PHZ} t_{PLZ}	Output Disable Time, OE to Y (Figures 3 and 4)	R _L = R _O = 5 kΩ, C _L = 30 pF	0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	TBD TBD TBD TBD TBD TBD	- - - - - -	- - - - - -	- - - - - -	53.5 22.0 21.6 21.2	ns

AC Characteristics for NC7SP74

AC Electrical Characteristics (10pF, 1MΩ)

Symbol	Parameter	V _{CC} (V)	T _A = +25°C			T _A = -40°C to +85°C			Units	Conditions	Figure Number	
			Min	Typ	Max	Min	Max					
f_{MAX}	Maximum Clock Frequency	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	50 75 100 125 150	40.0	50	75	100	125	150	MHz	C _L = 10 pF R _O = 1 MΩ	Figures 1, 5
t_{PLH} t_{PHL}	Propagation Delay, CK to Q, \bar{Q}	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	4.0 9.0 1.5 5.0 1.0	15.0 22.0 9.0 11.0 7.0	3.5 1.5 1.0 0.8 0.5	31.0 14.0 13.0 9.0 8.0	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 3			
t_{PLH} t_{PHL}	Propagation Delay, CLR, PR, to Q, \bar{Q}	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	4.0 9.0 1.5 5.0 1.0	12.0 23.0 9.0 11.0 7.0	4.0 2.0 1.0 0.8 0.5	34.0 14.0 13.0 9.0 8.0	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 3			
t_D	Setup Time, CK to D	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	7.0 3.0 2.0 1.5 1.0	10.0	7.0	3.0 2.0 1.5 1.0	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 4			
t_H	Hold Time, CK to D	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	0.5 0.5 0.5 0.5 0.5	1.0	0.5	0.5 0.5 0.5 0.5	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 4			
t_W	Pulse Width, CK, PR, CLR	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	5.0 3.0 2.5 2.5 2.0	5.0	5.0	3.0 2.5 2.5 2.0	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 5			
t_{REC}	Recover Time, CLR, PR to CK	0.90 1.10 ≤ V _{CC} ≤ 1.30 1.40 ≤ V _{CC} ≤ 1.80 1.65 ≤ V _{CC} ≤ 1.95 2.30 ≤ V _{CC} ≤ 2.70 3.00 ≤ V _{CC} ≤ 3.60	8.5 3.5 2.5 2.5 2.0	12.0	8.5	3.5 3.0 2.5 2.0	ns	C _L = 10 pF R _O = 1 MΩ	Figures 1, 4			

AC Electrical Characteristics (R_L = 1 MΩ, C_L = 10 pF)

Symbol	Parameter	Test Condition	V _{CC} (V)	T _A = 25°C			T _A = -40°C to +85°C			Unit
				Min	Typ	Max	Min	Max		
f_{MAX}	Maximum Clock Frequency (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	TBD 75 100 125 150	TBD	- - - - -	TBD 75 100 125 150	- - - - -	MHz	
t_{PLH} t_{PHL}	Propagation Delay, CK to Q, \bar{Q} (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD TBD TBD TBD TBD	TBD	- - - - -	- TBD 13.0 11.0 8.0 7.0	- - - - -	ns	
t_{PLH} t_{PHL}	Propagation Delay, CLR, PR to Q, \bar{Q} (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD TBD TBD TBD TBD	TBD	- - - - -	- TBD 12.0 11.0 9.0 7.0	- - - - -	ns	
t_S	Setup Time, CK to D (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD 3.0 2.0 1.5 1.0	TBD	- - - - -	- TBD 3.0 2.0 1.5 1.0	- - - - -	ns	
t_H	Hold Time, CK to D (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD 0.5 0.5 0.5 0.5	TBD	- - - - -	- TBD 0.5 0.5 0.5 0.5	- - - - -	ns	
t_W	Pulse Width, CK, CLR, PR (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD 3.0 2.5 2.5 2.0	TBD	- - - - -	- TBD 3.0 2.5 2.5 2.0	- - - - -	ns	
t_{REC}	Recovery Time, CLR, PR to CK (Figures 3 and 4)		0.9 1.1 to 1.3 1.4 to 1.6 1.65 to 1.95 2.3 to 2.7 3.0 to 3.6	- TBD 3.5 2.5 2.5 2.0	TBD	- - - - -	- TBD 3.5 3.0 2.5 2.0	- - - - -	ns	

3 V MiniGate Logic Datasheet Changes

AC Electrical Characteristics (15pF, 1MΩ)								AC Electrical Characteristics (R _L = 1 MΩ, C _L = 15 pF)														
Symbol	Parameter	V _{CC} (V)	T _A = +25°C			T _A = -40°C to +85°C			Units	Conditions	Figure Number	Symbol	Parameter	Test Condition	V _{CC} (V)	T _A = 25 °C			T _A = -40°C to +85°C			Unit
			Min	Typ	Max	Min	Max	Min								Typ	Max	Min	Max			
f _{MAX}	Maximum Clock Frequency	0.90	50	16.0	40.0	150			MHz	C _L = 15 pF R _D = 1 MΩ	Figures 1, 5	f _{MAX}	Maximum Clock Frequency (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD	TBD	MHz	
t _{PLH} t _{PHL}	Propagation Delay CK to Q, \bar{Q}	0.90	5.0	16.0	23.0	4.5	34.0		ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 3	t _{PLH} t _{PHL}	Propagation Delay, CK to Q, \bar{Q} (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD	34.0	ns	
t _{PLH} t _{PHL}	Propagation Delay CLR, PR, to Q, \bar{Q}	0.90	5.0	15.0	24.0	5.0	37.0		ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 3	t _{PLH} t _{PHL}	Propagation Delay, CLR, PR to Q, \bar{Q} (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD	37.0	ns	
t _S	Setup Time, CK to D	0.90	7.0	10.0	7.0	3.0			ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 4	t _S	Setup Time, CK to D (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD		ns	
t _H	Hold Time, CK to D	0.90	0.5	1.0	0.5	0.5			ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 4	t _H	Hold Time, CK to D (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD		ns	
t _W	Pulse Width, CK, PR, CLR	0.90	5.0	5.0	5.0	2.0			ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 5	t _W	Pulse Width, CK, CLR, PR (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD		ns	
t _{REC}	Recover Time, CLR, PR to CK	0.90	8.5	12.0	8.5	2.0			ns	C _L = 15 pF R _D = 1 MΩ	Figures 1, 4	t _{REC}	Recovery Time, CLR, PR to CK (Figures 3 and 4)		0.9	TBD	TBD	TBD	TBD		ns	

NC7SVxx, NC7WVxx Family

Absolute Maximum Ratings

Existing Datasheet

Absolute Maximum Ratings (Note 1)	
Supply Voltage (V _{CC})	-0.5V to +4.6V
DC Input Voltage (V _{IN})	-0.5V to +4.6V
DC Output Voltage (V _{OUT}) HIGH or LOW State (Note 2)	-0.5V to V _{CC} + 0.5V
V _{CC} = 0V	-0.5V to 4.6V

New

Maximum Ratings			
Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage	-0.5 to +4.3	V
V _{IN}	DC Input Voltage	-0.5 to +4.3	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State)	-0.5 to V _{CC} + 0.5
		Tri-State Mode (Note 1)	-0.5 to +4.3
		Power-Down Mode (V _{CC} = 0 V)	-0.5 to +4.3

Thermal Characteristics

Existing Datasheet

θ _{JA}	Thermal Resistance	SC70-6	425	°C/W
		MicroPak™-6	500	
		MicroPak2™-6	560	
P _D	Power Dissipation at +85°C	MicroPak™-6	130	mW
		SC70-6	150	
		MicroPak2™-6	120	

New

θ _{JA}	Thermal Resistance (Note 2)	SC-88 MicroPak	377 154	°C/W
P _D	Power Dissipation in Still Air	SC-88 MicroPak	332 812	mW

3 V MiniGate Logic Datasheet Changes

DC Input Characteristics for NC7SVxx, NC7WVxx except for NC7SV14, NC7SP57, NC7SV58, NC7WV14, NC7WV17 and NC7SVU04

Existing Datasheet

DC Electrical Characteristics

Table with columns: Symbol, Parameter, VCC (V), TA = +25°C, TA = -40°C to +85°C, Units, Conditions. Rows include VIH (High-Level Input Voltage) and VIL (Low-Level Input Voltage).

New

DC ELECTRICAL CHARACTERISTICS

Updated table for DC input characteristics with a more detailed breakdown of VCC ranges and temperature conditions for VIH and VIL.

DC Input Characteristics for NC7SV14, NC7SP57, NC7SV58, NC7WV14 and NC7WV17

Existing Datasheet

DC Electrical Characteristics

Table with columns: Symbol, Parameter, VCC (V), TA = +25°C, TA = -40°C to +85°C, Units, Conditions. Rows include Vp (Positive Threshold Voltage), VN (Negative Threshold Voltage), and VH (Hysteresis Voltage).

New

DC ELECTRICAL CHARACTERISTICS

Updated table for DC input characteristics for specific models, providing more granular data for Vp, VN, and VH across different VCC and temperature ranges.

DC Input Characteristics for NC7SVU04 – TBD

DC Output Characteristics for NC7SVxx and NC7WVxx

Table with columns: Symbol, Parameter, VCC (V), TA = +25°C, TA = -40°C to +85°C, Units, Conditions. Rows include VOH (High-Level Output Voltage) and VOL (Low-Level Output Voltage) for various current loads.

Updated table for DC output characteristics, detailing VOH and VOL performance for various current loads (IOH, IOL) and VCC conditions.

All Other Families

Additional datasheet changes will be published in the PCN updates as soon as available.

Reliability Data Summary:

Refer to information below by Product Family/Qual Vehicle.

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file/s.

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](#).

To view attached Parts List:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file/s.

PCN Product List Addendum for:

Customer Contact Name: Drop box Digi-Key

Customer Contact Email: digikey.supplierinfo@digikey.com

Appendix A: Changed Products

PCN#: FPCN25572X
Issue Date: Jul 03, 2023

DIKG: DIGI-KEY (page 1 of 33)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
7SB384DTT1G		TBD	7SB384DBVT1G	
MC74HC1G00DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G00DBVT1G	
MC74HC1G00DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G00DFT2G	
MC74HC1G02DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G02DBVT1G	
MC74HC1G04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G04DBVT1G	
MC74HC1G04DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G04DFT1G	
MC74HC1G08DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G08DBVT1G	
MC74HC1G08DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G08DFT2G	
MC74HC1G14DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G14DBVT1G	
MC74HC1G14DFT1G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G14DFT1G	
MC74HC1G14DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G14DFT2G	
MC74HC1G32DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1G32DBVT1G	
MC74HC1G32DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G32DFT1G	
MC74HC1G32DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1G32DFT2G	
MC74HC1GU04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74HC1GU04DBVT1G	
MC74HC1GU04DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74HC1GU04DFT2G	
NLV74HC20ADR2G		MC74LCX14DR2G	MC74HC20ADR2G-Q	
NLV74HCT32ADR2G		MC74LCX14DTR2G	MC74HCT32ADR2G-Q	
M74HCT4051ADR2G		TBD	MC74HCT4051ADR2G	
M74LCX16245DTR2G		TBD	MC74LCX16245DTR2G	
MC74LVXC3245DWRG		TBD	MC74LVXC3245DWR2G	
NLV74VHC04DTR2G		MC74LCX14DTR2G	MC74VHC04DTR2G-Q	
MC74VHC1G00DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G00DBVT1G	
MC74VHC1G00DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G00DFT2G	
MC74VHC1G02DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G02DBVT1G	
MC74VHC1G02DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G02DFT2G	
MC74VHC1G04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G04DBVT1G	
MC74VHC1G07DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G07DBVT1G	
MC74VHC1G07DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G07DFT1G	
MC74VHC1G08DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G08DBVT1G	
MC74VHC1G08DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G08DFT1G	
MC74VHC1G08DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G08DFT2G	
MC74VHC1G08P5T5G-L22088		MC74VHC1G08P5T5G	MC74VHC1G08P5T5G	
MC74VHC1G09DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G09DBVT1G	
MC74VHC1G09DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G09DFT2G	
M74VHC1G125DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G125DBVT1G	
M74VHC1G125DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G125DFT1G	
M74VHC1G125DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G125DFT2G	
M74VHC1G126DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G126DBVT1G	
M74VHC1G126DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G126DFT2G	
M74VHC1G132DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G132DBVT1G	
M74VHC1G132DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G132DFT2G	

Appendix A: Changed Products

PCN#: FPCN25572X
Issue Date: Jul 03, 2023

DIKG: DIGI-KEY (page 2 of 33)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
M74VHC1G135DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G135DBVT1G	
M74VHC1G135DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G135DFT1G	
MC74VHC1G14DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G14DBVT1G	
MC74VHC1G14DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G14DFT2G	
MC74VHC1G32DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G32DBVT1G	
MC74VHC1G32DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G32DFT1G	
MC74VHC1G32DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G32DFT2G	
MC74VHC1G50DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1G50DBVT1G	
MC74VHC1G50DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1G50DFT1G	
M74VHC1GT00DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT00DBVT1G	
M74VHC1GT00DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT00DFT2G	
M74VHC1GT02DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT02DBVT1G	
FXLA0104QFX-F106		TBD	FXLA0104QFX	
M74VHC1GT08DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT08DBVT1G	
M74VHC1GT04DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT08DFT1G	
M74VHC1GT04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT04DBVT1G	
M74VHC1GT08DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT08DFT2G	
M74VHC1GT08DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT08DFT1G	
M74VHC1GT32DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT32DBVT1G	
M74VHC1GT125DT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT125DBVT1G	
M74VHC1GU04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GU04DBVT1G	
M74VHC1GT50DTT1G		NL27WZ14DBVT1G,MC74VHC1G14D	MC74VHC1GT50DBVT1G	
NLVVHCT132ADTR2G		MC74LCX14DTR2G	MC74VHCT132ADTR2G-Q	
NC7NZ14L8X-L22185		NC7WZ132L8X	NC7NZ14L8X	
NLU2G17CMUTCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	MC74VHC2G17MU3TCG	
NC7S00M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S00M5X	
NC7S00P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7S00P5X	
NC7S04M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S04M5X	
NC7S08M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S08M5X	
NC7S04P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7S04P5X	
NC7S14M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S14M5X	
NC7S08P5X-F22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7S08P5X	
NC7S86M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S86M5X	
NC7S14P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7S14P5X	
NC7S86P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7S86P5X	
NC7ST08M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7S08M5X	
NC7ST00P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7ST00P5X	
NC7ST08P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7ST08P5X	
NC7SZ04L6X-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7SZ04L6X	
NC7SZ00M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7SZ00M5X	
NC7SZ04P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ04P5X	
NC7SZ04M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14D	NC7SZ04M5X	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NC7SZ05P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ05P5X	
NC7SZ05M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ05M5X	
NC7SZ08P5X-F22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ08P5X	
NC7SZ08M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ08M5X	
NC7SZ11P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ11P6X	
NC7SZ125P5X-F22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ125P5X	
NC7SZ125M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ125M5X	
NC7SZ126M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ126M5X	
NC7SZ126L6X-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7SZ126L6X	
NC7SZ14L6X-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7SZ14L6X	
NC7SZ126P5X-F22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ126P5X	
NC7SZ14P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ14P5X	
NC7SZ14M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ14M5X	
NC7SZ175P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ175P6X	
NC7SZ157P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ157P6X	
NC7SZ32M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ32M5X	
NC7SZ18P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ18P6X	
NC7SZ332P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ332P6X	
NC7SZ373P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ373P6X	
NC7SZ32P5X-F22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ32P5X	
NC7SZ58L6X-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7SZ58L6X	
NC7SZ57P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ57P6X	
NC7SZ58P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZ58P6X	
NC7SZ74L8X-L22185		NC7WZ132L8X	NC7SZ74L8X	
NC7SZ74K8X-L22236		NC7WZ132K8X	NC7SZ74K8X	
NC7SZU04P5X-L22057		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7SZU04P5X	
NC7SZ86M5X-L22090		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NC7SZ86M5X	
NC7WZ04P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZ04P6X	
NC7WZ02L8X-L22185		NC7WZ132L8X	NC7WZ02L8X	
NC7WZ07P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZ07P6X	
NC7WZ07L6X-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7WZ07L6X	
NC7WZ126L8X-L22185		NC7WZ132L8X	NC7WZ126L8X	
NC7WZ08K8X-L22236		NC7WZ132K8X	NC7WZ08K8X	
NC7WZ14P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZ14P6X	
NC7WZ132K8X-L22236		NC7WZ132K8X	NC7WZ132K8X	
NC7WZ17FHX-L22175		NC7WZ14FHX,NC7SZ14L6X	NC7WZ17FHX	
NC7WZ16P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZ16P6X	
NC7WZ241K8X-L22236		NC7WZ132K8X	NC7WZ241K8X	
NC7WZ17P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZ17P6X	
NC7WZ86L8X-L22185		NC7WZ132L8X	NC7WZ86L8X	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NL17SG07EDFT2G		NC7SP14P5X	NL17SG07DFT2G	
NC7WZU04P6X-L22347		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NC7WZU04P6X	
NL17SZ02DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ02DFT2G	
NL17SZ00DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ00DFT2G	
NL17SZ04DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ04DFT2G	
NL17SZ07DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ07DFT2G	
NL17SZ07DFT2GH		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ07DFT2G	
NL17SZ125DFT1G		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NL17SZ125DBVT1G	
NL17SZ08DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ08DFT2G	
NL17SZ125CMUTCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NL17SZ125MU3TCG	
NL17SZ125DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ125DFT2G	
NL17SZ14DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ14DFT2G	
NL17SZ126DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ126DFT2G	
NL17SZ16DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ16DFT2G	
NL17SZ14XV5T2G-L22087		NL17SZ08XV5T2GH	NL17SZ14XV5T2G	
NL17SZ17XV5T2G-L22087		NL17SZ08XV5T2GH	NL17SZ17XV5T2G	
NL17SZ17DFT2G-F22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ17DFT2G	
NL17SZ74USG-L22190		NC7WZ132K8X	NL17SZ74USG	
NL17SZ32DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL17SZ32DFT2G	
NL27WZ02USG-L22190		NC7WZ132K8X	NL27WZ02USG	
NL27WZ04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NL27WZ04DBVT1G	
NL27WZ04DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL27WZ04DFT2G	
NLX2G04AMUTCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NL27WZ04MU1TCG	
NL27WZ00USG-F22190		NC7WZ132K8X	NL27WZ00USG	
NLSX5014MUTAG		TBD	NL3X5004MU2TAG	
NL27WZ06DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	NL27WZ06DBVT1G	
NLSX4401MU1TCG		TBD	NL5X4001MU1TCG	
NLSX3014MUTAG		TBD	NL3X5004MU2TAG	
NLSX4373DR2G		TBD	NL5X4002DR2G	
NLSX4373DMR2G		TBD	NL5X4002DMR2G	
NLSX4402FMUTCG		TBD	NL5X4002MU3TCG	
NLSX4373MUTAG		TBD	NL5X4002MUTAG	
NLSX4302EBMUTCG		TBD	NL5X4E02MQ2TCG	
NLSX3373MUTAG		TBD	NL5X4002MUTAG	
NL7SZ57DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL7SZ57DFT2G	
NL7SZ18DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL7SZ18DFT2G	
PCA9306AMUTCG		TBD	NLA9306MQ1TCG	
NL7SZ18MUR2G		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NL7SZ18MU2TCG	
PCA9306FMUTCG		TBD	NLA9306MU3TCG	
PCA9306USG		TBD	NLA9306USG	
PCA9517ADMR2G		TBD	NLA9517ADMR2G	
PCA9306FMUTAG		TBD	NLA9306MU3TAG	
PCA9535ECMTTXG		TBD	NLA9535CMTTXG	
PCA9535ECDTR2G		TBD	NLA9535CDTR2G	

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PCA9535EMTTXG		TBD	NLA9535MTTXG	
PCA9535EDTR2G		TBD	NLA9535DTR2G	
PCA9655EDWR2G		TBD	NLA9555DWR2G	
PCA9655EDTR2G		TBD	NLA9555DTR2G	
PCA9617ADMR2G		TBD	NLA9617ADMR2G	
PCA9655EMTTXG		TBD	NLA9555MTTXG	
MM74HC132MTC		MC74LCX14DTR2G	NA	
MM74HC132MTCX		MC74LCX14DTR2G	NA	
MM74HC126MX		MC74LCX14DR2G	NA	
MM74HC132M		MC74LCX14DR2G	NA	
MM74HC126M		MC74LCX14DR2G	NA	
MM74HC125MTCX		MC74LCX14DTR2G	NA	
MM74HC125MX		MC74LCX14DR2G	NA	
MM74HC125M		MC74LCX14DR2G	NA	
MM74HC125MTC		MC74LCX14DTR2G	NA	
MM74HC08MTCX		MC74LCX14DTR2G	NA	
MM74HC08MX		MC74LCX14DR2G	NA	
MM74HC08MTC		MC74LCX14DTR2G	NA	
MM74HC04MX		MC74LCX14DR2G	NA	
MM74HC08M	MM74HC08M-ND	MC74LCX14DR2G	NA	
MM74HC04M	MM74HC04M-ND	MC74LCX14DR2G	NA	
MM74HC04MTCX		MC74LCX14DTR2G	NA	
MM74HC02MTCX		MC74LCX14DTR2G	NA	
MM74HC02MX		MC74LCX14DR2G	NA	
MM74HC02M	MM74HC02M-ND	MC74LCX14DR2G	NA	
MM74HC02MTC		MC74LCX14DTR2G	NA	
MM74HC00MX		MC74LCX14DR2G	NA	
MC74VHCU04DTR2G		MC74LCX14DTR2G	NA	
MM74HC00MTCX		MC74LCX14DTR2G	NA	
MC74VHCT86ADR2G		MC74LCX14DR2G	NA	
MC74VHCU04DR2G		MC74LCX14DR2G	NA	
MC74VHCT573ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT541ADWRG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT74ADR2G		MC74LCX14DR2G	NA	
MC74VHCT574ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT541ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT50ADR2G		MC74LCX14DR2G	NA	
MC74VHCT541ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
M74VHC1GT126DFT1G		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	MC74VHC1GT126DBVT1G	
M74VHC1GT125DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT125DFT2G	
M74VHC1GT14DFT1G		NL27WZ14DBVT1G,MC74VHC1G14DFT1G	MC74VHC1GT14DBVT1G	
M74VHC1GT126DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT126DFT1G	
M74VHC1GT14DFT2G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT14DFT2G	
M74VHC1GT14DFT1G-L22038		NL27WZ14DFT2G, MC74VHC1G14DFT1G	MC74VHC1GT14DFT1G	
MC74VHCT373ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT373ADWRG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT32ADR2G		MC74LCX14DR2G	NA	
MC74VHCT259ADTRG		NLV74HC595ADTR2G	NA	
MC74VHCT32ADTR2G		MC74LCX14DTR2G	NA	

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MC74VHCT259ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHCT245ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT245ADWRG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT245ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT244ADWRG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHCT245ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT240ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT14ADTR2G		MC74LCX14DTR2G	NA	
MC74VHCT244ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT139ADTRG		NLV74HC595ADTR2G	NA	
MC74VHCT138ADTRG		NLV74HC595ADTR2G	NA	
MC74VHCT14ADR2G		MC74LCX14DR2G	NA	
MC74VHCT132ADR2G		MC74LCX14DR2G	NA	
MC74VHCT138ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHCT125ADR2G		MC74LCX14DR2G	NA	
MC74VHCT126ADR2G		MC74LCX14DR2G	NA	
MC74VHCT04ADR2G		MC74LCX14DR2G	NA	
MC74VHCT08ADTR2G		MC74LCX14DTR2G	NA	
MC74VHCT00ADR2G		MC74LCX14DR2G	NA	
MC74VHCT02ADTR2G		MC74LCX14DTR2G	NA	
MC74VHCT02ADR2G		MC74LCX14DR2G	NA	
MC74VHC86DTR2G		MC74LCX14DTR2G	NA	
MC74VHC74DTG		MC74LCX14DTR2G	NA	
MC74VHC595DTR2G		NLV74HC595ADTR2G	NA	
MC74VHC86DR2G		MC74LCX14DR2G	NA	
MC74VHC595DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHC574DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC574DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC574DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC573DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC541DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC541DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC540DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC541DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC50DTR2G		MC74LCX14DTR2G	NA	
MC74VHC540DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC50DG		MC74LCX14DR2G	NA	
MC74VHC50DR2G		MC74LCX14DR2G	NA	
MC74VHC4066DTR2G		TBD	NA	
MC74VHC4316DTR2G		TBD	NA	
MC74VHC4066DR2G		TBD	NA	

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MC74VHC4052DR2G		TBD	NA	
MC74VHC4053DTR2G		TBD	NA	
MC74VHC4051DTR2G		TBD	NA	
MC74HC597ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC597ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC597ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC595ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC595ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC589ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC574ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC589ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC573ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC574ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC573ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC573ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC573ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC541ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC541ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC541ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC540ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC540ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC4852ADTR2G		MC74HC4851ADTR2G, NLVHC4851ADTR2G	NA	
MC74HC540ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC4852ADR2G		MC74HC4851ADR2G, NLV74HC4851ADR2G	NA	
MC74HC4851ADTR2G		MC74HC4851ADTR2G, NLVHC4851ADTR2G	NA	
MC74HC4316ADR2G		TBD	NA	
MC74HC4851ADG		MC74HC4851ADTR2G, NLVHC4851ADTR2G	NA	
MC74HC4066ADTR2G		TBD	NA	
MC74HC4094ADTR2G		TBD	NA	
MC74HC4066ADG		TBD	NA	
MC74HC4066ADR2G		TBD	NA	
MC74HC4060ADR2G		TBD	NA	
MC74HC4060ADTR2G		TBD	NA	
MC74HC4053ADG		TBD	NA	
MC74HC4053ADWR2G		TBD	NA	
MC74HC4052ADTR2G		TBD	NA	
MC74HC4052ADWR2G		TBD	NA	
MC74HC4051ADWR2G		TBD	NA	
MC74HC4052ADG		TBD	NA	
MC74HC4051ADR2G		TBD	NA	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC4051ADWG		TBD	NA	
MC74VHC374DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC4051DR2G		TBD	NA	
MC74VHC374DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC373DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC32DTG		MC74LCX14DTR2G	NA	
MC74VHC32DTR2G		MC74LCX14DTR2G	NA	
MC74VHC259DTR2G		NLV74HC595ADTR2G	NA	
MC74VHC32DR2G		MC74LCX14DR2G	NA	
MC74VHC257DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHC257DTR2G		NLV74HC595ADTR2G	NA	
MC74VHC245DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC245DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC244DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC245DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC240DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC244DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC1GT50MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
MC74VHC1GU04MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
MC74LVX4052DTR2G		MC74LVX4051DTR2G	NA	
MC74LVX4052DR2G		MC74LVX4051DR2G	NA	
MC74VHC1G04MU3TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
MC74LVX4051DTG		MC74LVX4051DTR2G	NA	
MC74LVX4052DG		MC74LVX4051DR2G	NA	
MC74LVX4051DR2G		MC74LVX4051DR2G	NA	
MC74LVX373DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX4051DG		MC74LVX4051DR2G	NA	
MC74LVX374DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX32DR2G		MC74LCX14DR2G	NA	
MC74LVX259DTR2G		NLV74HC595ADTR2G	NA	
MC74LVX32DTR2G		MC74LCX14DTR2G	NA	
MC74LVX259DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LVX244DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX244DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX245DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX245DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX138DTR2G		NLV74HC595ADTR2G	NA	
MC74LVX157DTR2G		NLV74HC595ADTR2G	NA	
MC74LVX157DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LVX132DR2G		MC74LCX14DR2G	NA	
MC74LVX132DTR2G		MC74LCX14DTR2G	NA	
MC74LVX125DTR2G		MC74LCX14DTR2G	NA	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74LVX125DR2G		MC74LCX14DR2G	NA	
MC74LVX125DTG		MC74LCX14DTR2G	NA	
MC74LVX04DTR2G		MC74LCX14DTR2G	NA	
MC74LVX125DG		MC74LCX14DR2G	NA	
MC74LVX08DR2G		MC74LCX14DR2G	NA	
MC74LVX02DR2G		MC74LCX14DR2G	NA	
MC74LVX04DR2G		MC74LCX14DR2G	NA	
MC74LV594ADTR2G		NLV74HC595ADTR2G	NA	
MC74LV594ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LCX157DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LVX00DR2G		MC74LCX14DR2G	NA	
MC74LCX14DR2G		MC74LCX14DR2G	NA	
MC74LCX14DTG		MC74LCX14DTR2G	NA	
MC74LCX138DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LCX14DG		MC74LCX14DR2G	NA	
MC74LCX125DTG		MC74LCX14DTR2G	NA	
MC74LCX125DTR2G		MC74LCX14DTR2G	NA	
MC74LCX08DTR2G		MC74LCX14DTR2G	NA	
MC74LCX08DR2G		MC74LCX14DR2G	NA	
MC74LCX08DTG		MC74LCX14DTR2G	NA	
MC74LCX08DG		MC74LCX14DR2G	NA	
MC74LCX06DTR2G		MC74LCX14DTR2G	NA	
MC74LCX07DG		MC74LCX14DR2G	NA	
MC74LCX06DR2G		MC74LCX14DR2G	NA	
MC74LCX04DTG		MC74LCX14DTR2G	NA	
MC74LCX06DG		MC74LCX14DR2G	NA	
MC74LCX04DR2G		MC74LCX14DR2G	NA	
MC74LCX02DTR2G		MC74LCX14DTR2G	NA	
MC74LCX04DG		MC74LCX14DR2G	NA	
MC74LCX02DTG		MC74LCX14DTR2G	NA	
MC74LCX00DR2G		MC74LCX14DR2G	NA	
MC74LCX00DTG		MC74LCX14DTR2G	NA	
MC74LCX00DG		MC74LCX14DR2G	NA	
MC74HCU04ADR2G		MC74LCX14DR2G	NA	
MC74HCU04ADTR2G		MC74LCX14DTR2G	NA	
MC74HCU04ADG		MC74LCX14DR2G	NA	
MC74HCT74ADR2G		MC74LCX14DR2G	NA	
MC74HCT86ADR2G		MC74LCX14DR2G	NA	
MC74HCT595ADTR2G		NLV74HC595ADTR2G	NA	
MC74HCT74ADG		MC74LCX14DR2G	NA	
MC74HCT595ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HCT595ADTG		NLV74HC595ADTR2G	NA	
MC74HCT574ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT595ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HCT573ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT574ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT573ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT573ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT541ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	

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PCN#: FPCN25572X
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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HCT541ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT4051ADR2G		TBD	NA	
MC74HCT541ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT374ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT4051ADG		TBD	NA	
MC74HCT374ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT374ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT373ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT373ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT373ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT366ADTR2G		NLV74HC595ADTR2G	NA	
MC74HCT365ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HCT365ADTR2G		NLV74HC595ADTR2G	NA	
MC74HCT273ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
NL27WZ07DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DBVT1G	NL27WZ07DBVT1G	
MC74HCT32ADR2G		MC74LCX14DR2G	NA	
NLX2G07AMUTCG		NL17S208MU1TCG,NL27WZ17MU1TCG	NL27WZ07MU1TCG	
NL27WZ125USG-F22190		NC7WZ132K8X	NL27WZ125USG	
NL27WZ08USG-L22190		NC7WZ132K8X	NL27WZ08USG	
NL27WZ14DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL27WZ14DFT2G	
NL27WZ14DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DBVT1G	NL27WZ14DBVT1G	
NL27WZ16DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL27WZ16DFT2G	
NL27WZ17DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL27WZ17DFT2G	
NL27WZ32USG-L22190		NC7WZ132K8X	NL27WZ32USG	
NLX2G66DMUTAG		TBD	NL27WZ66MU1TAG	
NL27WZ16DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DBVT1G	NL27WZ16DBVT1G	
NLX2G86MUTCG		MC74VHC3G14MU3TCG	NL27WZ86MU1TCG	
NLX2G66DMUTCG		TBD	NL27WZ66MU1TCG	
NL27WZU04DFT2G-L22348		NL27WZ14DFT2G, MC74VHC1G14DFT1G	NL27WZU04DFT2G	
NL27WZU04DTT1G		NL27WZ14DBVT1G,MC74VHC1G14DBVT1G	NL27WZU04ADBVT1G	
NL37WZ17USG-L22190		NC7WZ132K8X	NL37WZ17USG	
NLSV1T244MUTBG		TBD	NL3V1T244MU2TBG	
NLSV1T240MUTBG		TBD	NL3V1T240MU2TBG	
NLSV1T34AMUTCG		TBD	NL3V1T34MU1TCG	
NLSV1T34DFT2G		TBD	NL3V1T34DFT2G	
NLSV1T34MUTBG		TBD	NL3V1T34MU2TBG	
NLSV2T244DMR2G		TBD	NL3V2T244DMR2G	
NLSV2T240MUTAG		TBD	NL3V2T240MUTAG	
NLSV2T244MUTAG		TBD	NL3V2T244MUTAG	
NLSV4T240EMUTAG		TBD	NL3V4T240MU2TAG	
NLSV4T240MUTAG		TBD	NL3V4T240MU2TAG	
NLSV4T244DR2G		TBD	NL3V4T244DR2G	
NLSV4T244DTR2G		TBD	NL3V4T244DTR2G	
NLSV4T244EDTR2G		TBD	NL3V4T244DTR2G	
NLSV4T244MUTAG		TBD	NL3V4T244MU2TAG	
NLSV4T244EMUTAG		TBD	NL3V4T244MU2TAG	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NLSV4T3144MUTAG		TBD	NL3V4T3144MU2TAG	
NLSV8T244DTR2G		TBD	NL3V8T244DTR2G	
NLSV8T240MUTAG		TBD	NL3V8T240MU2TAG	
NLSV8T244MUTAG		TBD	NL3V8T244MU2TAG	
NLSV8T244DWR2G		TBD	NL3V8T244DWR2G	
NLSX5011AMUTCG		TBD	NL3X5001MU1TCG	
NLSX5011AMUTAG		TBD	NL3X5001MU1TAG	
NLSX5011MUTCG		TBD	NL3X5001MU2TCG	
NLSX5012DMR2G		TBD	NL3X5002DMR2G	
NLSX3012DMR2G		TBD	NL3X5002DMR2G	
NLSX3012DR2G		TBD	NL3X5002DR2G	
NLSX5012MUTAG		TBD	NL3X5002MUTAG	
NLSX5012DR2G		TBD	NL3X5002DR2G	
NLSX3012MUTAG		TBD	NL3X5002MUTAG	
NLSX5004MUTAG		TBD	NL3X5004MU2TAG	
NLSX4014DR2G		TBD	NL3X5004DR2G	
NLSX5002BMUTCG		TBD	NL3X5004MQ2TCG	
MC74HCT273ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT245ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT273ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT245ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT245ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
7SB385DFT2G		TBD	NA	
7SB384DFT2G		TBD	NA	
74VHCT574AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCU04MTCX		MC74LCX14DTR2G	NA	
74VHCT74AMTCX		MC74LCX14DTR2G	NA	
74VHCT245AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCT573AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCT240AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCT14AMTCX		MC74LCX14DTR2G	NA	
74VHCT374AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCT08AMTCX		MC74LCX14DTR2G	NA	
74VHCT138AMTCX		NLV74HC595ADTR2G	NA	
74VHCT04AMTCX		MC74LCX14DTR2G	NA	
74VHC86MTCX		MC74LCX14DTR2G	NA	
74VHCT00AMTCX		MC74LCX14DTR2G	NA	
74VHC595MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC574MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC574MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC573MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC573MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC541MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
74VHC541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC373MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC240MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC175MTCX		NLV74HC595ADTR2G	NA	
74VHC175MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC157MTCX		NLV74HC595ADTR2G	NA	
74VHC157MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC138MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC138MTCX		NLV74HC595ADTR2G	NA	
74VHC139MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC125MTCX		MC74LCX14DTR2G	NA	
74VHC123AMX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC132MTCX		MC74LCX14DTR2G	NA	
74VHC123AMTC		NLV74HC595ADTR2G	NA	
74VHC123AMTCX		NLV74HC595ADTR2G	NA	
74VHC112MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC123AM		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74VHC08MX		MC74LCX14DR2G	NA	
74VHC112MTCX		NLV74HC595ADTR2G	NA	
74VHC02MTCX		MC74LCX14DTR2G	NA	
74VHC08M		MC74LCX14DR2G	NA	
74LVX86MTCX		MC74LCX14DTR2G	NA	
74VHC00MTCX		MC74LCX14DTR2G	NA	
74LVX74MTCX		MC74LCX14DTR2G	NA	
74LVX541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX573MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX32MTCX		MC74LCX14DTR2G	NA	
74LVX373MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX273MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX157MTCX		NLV74HC595ADTR2G	NA	
74LVX244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LVX138MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74LVX14MTCX		MC74LCX14DTR2G	NA	
74LVX132MTCX		MC74LCX14DTR2G	NA	
74LVX138MTCX		NLV74HC595ADTR2G	NA	
74LVX08MX		MC74LCX14DR2G	NA	
74LVX125MTCX		MC74LCX14DTR2G	NA	
74LVX04MTCX		MC74LCX14DTR2G	NA	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
74LVX08MTCX		MC74LCX14DTR2G	NA	
74LVX00MTCX		MC74LCX14DTR2G	NA	
74LVX02MTCX		MC74LCX14DTR2G	NA	
74LCX760MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX86MTCX		MC74LCX14DTR2G	NA	
74LCX74BQX		74LCX14BQX	NA	
74LCX74MTCX		MC74LCX14DTR2G	NA	
74LCX541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX541WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74LCX540MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX541MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX38MTCX		MC74LCX14DTR2G	NA	
74LCX540MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX32BQX		74LCX14BQX	NA	
74LCX373MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX257MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74LCX245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX257MTCX		NLV74HC595ADTR2G	NA	
MC74HCT244ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74LCX245MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT241ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT244ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT241ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT138ADTR2G		NLV74HC595ADTR2G	NA	
MC74HCT138ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HCT14ADG		MC74LCX14DR2G	NA	
MC74HCT132ADTR2G		MC74LCX14DTR2G	NA	
MC74HCT125ADTR2G		MC74LCX14DTR2G	NA	
MC74HCT132ADR2G		MC74LCX14DR2G	NA	
MC74HCT08ADTR2G		MC74LCX14DTR2G	NA	
MC74HCT125ADR2G		MC74LCX14DR2G	NA	
MC74HCT04ADTR2G		MC74LCX14DTR2G	NA	
MC74HCT08ADR2G		MC74LCX14DR2G	NA	
MC74HCT04ADG		MC74LCX14DR2G	NA	
MC74HCT04ADR2G		MC74LCX14DR2G	NA	
MC74VHC157DTR2G		NLV74HC595ADTR2G	NA	
MC74HC86ADTR2G		MC74LCX14DTR2G	NA	
MC74VHC14DTG		MC74LCX14DTR2G	NA	
MC74VHC157DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHC14DG		MC74LCX14DR2G	NA	
MC74VHC14DR2G		MC74LCX14DR2G	NA	
MC74VHC138DTR2G		NLV74HC595ADTR2G	NA	
MC74VHC139DTR2G		NLV74HC595ADTR2G	NA	
MC74VHC132DTR2G		MC74LCX14DTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74VHC138DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHC126DTR2G		MC74LCX14DTR2G	NA	
MC74VHC132DR2G		MC74LCX14DR2G	NA	
MC74HC74ADG		MC74LCX14DR2G	NA	
MC74VHC132DG		MC74LCX14DR2G	NA	
MC74HC73ADTR2G		MC74LCX14DTR2G	NA	
MC74HC73ADG		MC74LCX14DR2G	NA	
MC74HC73ADR2G		MC74LCX14DR2G	NA	
MC74HC4051ADG		TBD	NA	
MC74HC4040ADTR2G		TBD	NA	
MC74HC4020ADTR2G		TBD	NA	
MC74HC4040ADR2G		TBD	NA	
MC74HC393ADTR2G		MC74LCX14DTR2G	NA	
MC74HC4020ADR2G		TBD	NA	
MC74HC393ADG		MC74LCX14DR2G	NA	
MC74HC393ADR2G		MC74LCX14DR2G	NA	
MC74HC390ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC390ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC374ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC390ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC373ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC374ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC373ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC365ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC373ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC365ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC30ADTR2G		MC74LCX14DTR2G	NA	
MC74HC32ADG		MC74LCX14DR2G	NA	
MC74HC273ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC273ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC259ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC273ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC251ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC259ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC251ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC251ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC251ADTG		NLV74HC595ADTR2G	NA	
MC74HC245ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC245ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC244ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC245ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC244ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC4040DR2G		TBD	NA	
MC74AC32DR2G		MC74LCX14DR2G	NA	
MC74AC573DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC541DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC74DR2G		MC74LCX14DR2G	NA	
MC74AC574DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
M74LCX16374DTR2G		TBD	NA	
MC74ACT08DR2G		MC74LCX14DR2G	NA	
M74LCX16244DTR2G		TBD	NA	
M74HCT4053ADTR2G		TBD	NA	
M74HCT4094ADTR2G		TBD	NA	
M74HCT4066ADTR2G		TBD	NA	
FXMAR2102UMX		TBD	NA	
M74HCT4052ADTR2G		TBD	NA	
FXMAR2102UMX-F106		TBD	NA	
FXMA108BQX		TBD	NA	
FXMAR2102L8X		TBD	NA	
FXLP34L6X		TBD	NA	
FXLP34FHX		TBD	NA	
FXLH1T45L6X		TBD	NA	
FXLH42245MPX		TBD	NA	
FXLA104UM12X		TBD	NA	
FXLA102L8X		TBD	NA	
FXLA104UMX		TBD	NA	
FXLA0104QFX		TBD	NA	
FXLA101L6X		TBD	NA	
FXL4T245BQX		TBD	NA	
FXL5T244BQX		TBD	NA	
FXL2T245L10X		TBD	NA	
FXL2TD245L10X		TBD	NA	
74LCX245BQX		74LCX244BQX	NA	
FXL2SD106BQX		TBD	NA	
74LCX244BQX		74LCX244BQX	NA	
74LCX244WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74LCX06MTCX		MC74LCX14DTR2G	NA	
74LCX07MTCX		MC74LCX14DTR2G	NA	
74LCX04MTCX		MC74LCX14DTR2G	NA	
74LCX04BQX		74LCX14BQX	NA	
74LCX04MTC		MC74LCX14DTR2G	NA	
74FST3257MNTWG		TBD	NA	
74LCX00BQX		74LCX14BQX	NA	
74FST3257DR2G		TBD	NA	
74FST3257DTR2G		TBD	NA	
74ACT541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT541SC		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT32SC		MC74LCX14DR2G	NA	
74ACT32SCX		MC74LCX14DR2G	NA	
74ACT245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT244SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT32MTCX		MC74LCX14DTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
74ACT244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT244SC		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT240MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT240SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT14SCX		MC74LCX14DR2G	NA	
74ACT240MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT139SCX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74ACT14MTCX		MC74LCX14DTR2G	NA	
74ACT138SCX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74ACT139MTCX		NLV74HC595ADTR2G	NA	
MC74LCXU04DTR2G		MC74LCX14DTR2G	NA	
MC74LCX86DTR2G		MC74LCX14DTR2G	NA	
MC74LCX74DTR2G		MC74LCX14DTR2G	NA	
MC74LCX86DR2G		MC74LCX14DR2G	NA	
MC74LCX74DR2G		MC74LCX14DR2G	NA	
MC74LCX74DTG		MC74LCX14DTR2G	NA	
MC74LCX74DG		MC74LCX14DR2G	NA	
MC74LCX574DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX574DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX573DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX573DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX573DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX573DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX541DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX541DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX541DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX541DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX540DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX540DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX540DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX373DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX374DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX373DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX373DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX257DTR2G		NLV74HC595ADTR2G	NA	
MC74LCX32DR2G		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74LCX245MNTWG		NLV68SZ126MN2TWG	NA	
MC74LCX257DTG		NLV74HC595ADR2G	NA	
MC74LCX245DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX257DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LCX245DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX245DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX244DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX244DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX240DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX244DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX16373DTG		TBD	NA	
MC74LCX240DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT08SCX		MC74LCX14DR2G	NA	
74ACT138SC		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74ACT08MTCX		MC74LCX14DTR2G	NA	
74ACT08SC	74ACT08SC-ND	MC74LCX14DR2G	NA	
74ACT04SC	74ACT04SC-ND	MC74LCX14DR2G	NA	
74ACT08MTC		MC74LCX14DTR2G	NA	
74AC86SCX		MC74LCX14DR2G	NA	
74ACT00SCX		MC74LCX14DR2G	NA	
MC74HC139ADTR2G		NLV74HC595ADTR2G	NA	
74AC86MTCX		MC74LCX14DTR2G	NA	
MC74HC138ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC139ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC138ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC138ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC132ADTG		MC74LCX14DTR2G	NA	
MC74HC132ADTR2G		MC74LCX14DTR2G	NA	
MC74HC126ADTR2G		MC74LCX14DTR2G	NA	
MC74HC132ADG		MC74LCX14DR2G	NA	
MC74HC125ADTR2G		MC74LCX14DTR2G	NA	
MC74HC126ADR2G		MC74LCX14DR2G	NA	
MC74HC125ADR2G		MC74LCX14DR2G	NA	
MC74HC125ADTG		MC74LCX14DTR2G	NA	
MC74HC11ADR2G		MC74LCX14DR2G	NA	
MC74HC11ADTR2G		MC74LCX14DTR2G	NA	
MC74HC112ADTG		NLV74HC595ADTR2G	NA	
MC74HC11ADG		MC74LCX14DR2G	NA	
MC74HC112ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC112ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC10ADR2G		MC74LCX14DR2G	NA	
MC74HC08ADG		MC74LCX14DR2G	NA	
MC74HC08ADTR2G		MC74LCX14DTR2G	NA	
MC74HC05ADR2G		MC74LCX14DR2G	NA	
MC74HC05ADTR2G		MC74LCX14DTR2G	NA	
MC74HC05ADTG		MC74LCX14DTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC05ADG		MC74LCX14DR2G	NA	
MC74HC04ADTR2G		MC74LCX14DTR2G	NA	
MC74HC04ADG		MC74LCX14DR2G	NA	
MC74HC03ADG		MC74LCX14DR2G	NA	
MC74HC03ADTR2G		MC74LCX14DTR2G	NA	
MC74HC02ADG		MC74LCX14DR2G	NA	
MC74HC02ADTR2G		MC74LCX14DTR2G	NA	
MC74HC00ADR2G		MC74LCX14DR2G	NA	
MC74HC00ADTR2G		MC74LCX14DTR2G	NA	
MC74ACT86DTR2G		MC74LCX14DTR2G	NA	
MC74HC00ADG		MC74LCX14DR2G	NA	
MC74ACT74DTR2G		MC74LCX14DTR2G	NA	
MC74ACT86DR2G		MC74LCX14DR2G	NA	
MC74ACT74DG		MC74LCX14DR2G	NA	
MC74ACT74DR2G		MC74LCX14DR2G	NA	
MC74ACT574DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT574DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT573DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT574DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT573DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT573DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT541DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT541DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT540DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT541DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT377DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT540DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT374DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT374DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT374DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT373DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT373DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT32DR2G		MC74LCX14DR2G	NA	
MC74ACT32DTR2G		MC74LCX14DTR2G	NA	
MC74ACT273DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT32DG		MC74LCX14DR2G	NA	
MC74ACT273DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT273DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT257DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74ACT259DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT245DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT253DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT244DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT245DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT241DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT244DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74ACT20DG		MC74LCX14DR2G	NA	
MC74ACT163DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT240DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT20DR2G		MC74LCX14DR2G	NA	
MC74ACT161DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT161DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT157DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT157DTR2G		NLV74HC595ADTR2G	NA	
MC74ACT153DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT157DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT153DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT14DG		MC74LCX14DR2G	NA	
MC74ACT14DTR2G		MC74LCX14DTR2G	NA	
MC74ACT139DTR2G		NLV74HC595ADTR2G	NA	
MC74ACT139DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT139DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT138DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT138DTR2G		NLV74HC595ADTR2G	NA	
MC74ACT132DR2G		MC74LCX14DR2G	NA	
MC74ACT138DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT125DG		MC74LCX14DR2G	NA	
MC74ACT132DG		MC74LCX14DR2G	NA	
MC74ACT10DR2G		MC74LCX14DR2G	NA	
MC74ACT11DR2G		MC74LCX14DR2G	NA	
MC74ACT08DTR2G		MC74LCX14DTR2G	NA	
MC74ACT05DTR2G		MC74LCX14DTR2G	NA	
MC74ACT08DG		MC74LCX14DR2G	NA	
MC74ACT05DR2G		MC74LCX14DR2G	NA	
NC7SZ125L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ08L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
MM74HCT04MX		MC74LCX14DR2G	NA	
NLSF595MNR2G		NLV74HC595AMN1TWG	NA	
NC7SZ74K8X		NC7WZ132K8X	NA	
MM74HCT05MX		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NC7WV16P6X		NC7SP14P5X, NC7WV04P6X	NA	
NC7WV07P6X		NC7SP14P5X, NC7WV04P6X	NA	
NC7WZ04L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WV17P6X		NC7SP14P5X, NC7WV04P6X	NA	
NL17SG04P5T5G		NL17SG14P5T5G	NA	
NC7WZ126K8X		NC7WZ132K8X	NA	
NL17SZ08XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SG07DFT2G		NC7SP14P5X	NA	
MC74ACT04DTR2G		MC74LCX14DTR2G	NA	
MC74ACT05DG		MC74LCX14DR2G	NA	
MC74ACT02DTR2G		MC74LCX14DTR2G	NA	
MC74ACT04DR2G		MC74LCX14DR2G	NA	
MC74ACT02DG		MC74LCX14DR2G	NA	
MC74ACT02DR2G		MC74LCX14DR2G	NA	
MC74ACT00DR2G		MC74LCX14DR2G	NA	
MC74ACT00DTR2G		MC74LCX14DTR2G	NA	
MC74AC86DTR2G		MC74LCX14DTR2G	NA	
MC74ACT00DG		MC74LCX14DR2G	NA	
MC74AC86DG		MC74LCX14DR2G	NA	
MC74AC74DTR2G		MC74LCX14DTR2G	NA	
MC74AC86DR2G		MC74LCX14DR2G	NA	
MC74AC574DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC74DG		MC74LCX14DR2G	NA	
MC74AC573DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC574DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC573DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC541DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC541DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC540DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC540DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC377DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC377DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC374DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC374DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC373DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC374ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC374DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC74ADTR2G		MC74LCX14DTR2G	NA	
MC74HC74ADR2G		MC74LCX14DR2G	NA	
MC74VHC139DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC86ADG		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC86ADR2G		MC74LCX14DR2G	NA	
MC74HCT14ADR2G		MC74LCX14DR2G	NA	
MC74VHC14DTR2G		MC74LCX14DTR2G	NA	
MC74HCT244ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT14ADTR2G		MC74LCX14DTR2G	NA	
74LCX32MTCX		MC74LCX14DTR2G	NA	
74VHC04MTCX		MC74LCX14DTR2G	NA	
74LCX38MTC		MC74LCX14DTR2G	NA	
74VHC139MTCX		NLV74HC595ADTR2G	NA	
74VHC08MTCX		MC74LCX14DTR2G	NA	
74VHC164MTCX		MC74LCX14DTR2G	NA	
74VHC244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC14MTCX		MC74LCX14DTR2G	NA	
74VHC32MTCX		MC74LCX14DTR2G	NA	
74VHC273MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHC74MTCX		MC74LCX14DTR2G	NA	
74VHC595MTCX		NLV74HC595ADTR2G	NA	
74VHCT541AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74VHCT244AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HCT245ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74VHCT541AMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LCX04DTR2G		MC74LCX14DTR2G	NA	
MC74LCX00DTR2G		MC74LCX14DTR2G	NA	
MC74LCX07DTR2G		MC74LCX14DTR2G	NA	
MC74LCX07DR2G		MC74LCX14DR2G	NA	
MC74LCX125DR2G		MC74LCX14DR2G	NA	
MC74LCX125DG		MC74LCX14DR2G	NA	
MC74LCX138DTR2G		NLV74HC595ADTR2G	NA	
MC74LCX138DTG		NLV74HC595ADTR2G	NA	
MC74LCX157DTR2G		NLV74HC595ADTR2G	NA	
MC74LCX14DTR2G		MC74LCX14DTR2G	NA	
MC74LCX244MNTWG		NLV68SZ126MNTWG	NA	
MC74LCX244DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX374DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LCX245DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX138DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74LVX08DTR2G		MC74LCX14DTR2G	NA	
MC74LVX14DTR2G		MC74LCX14DTR2G	NA	
MC74LVX14DR2G		MC74LCX14DR2G	NA	
MC74LVX4051DTR2G		MC74LVX4051DTR2G	NA	
MC74LVX244DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHC244DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX4051MNTWG		MC74LVX4051MNTWG	NA	
MC74HC4051ADTR2G		TBD	NA	
MC74HC4051ADTG		TBD	NA	
MC74HC4053ADR2G		TBD	NA	
MC74HC4052ADR2G		TBD	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC4067ADTR2G		TBD	NA	
MC74HC4053ADTR2G		TBD	NA	
MC74HC4094ADR2G		TBD	NA	
MC74HC4067ADWR2G		TBD	NA	
MC74HC4538ADR2G		TBD	NA	
MC74HC4538ADG		TBD	NA	
MC74HC4851ADR2G		MC74HC4851ADR2G, NLV74HC4851ADR2G	NA	
MC74HC4538ADTR2G		TBD	NA	
MC74HC244ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC541ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC240ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC240ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC238ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC240ADTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74HC238ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC238ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC175ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC20ADR2G		MC74LCX14DR2G	NA	
MC74HC175ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC174ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC20ADG		MC74LCX14DR2G	NA	
MC74HC175ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC165AMNTWG		NLV74HC595AMN1TWG	NA	
MC74HC174ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC164ADTR2G		MC74LCX14DTR2G	NA	
MC74HC165ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC161ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC161ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC161ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC157ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC157ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC153ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC153ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC153ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC151ADTG		NLV74HC595ADTR2G	NA	
MC74HC151ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC14ADG		MC74LCX14DR2G	NA	
MC74HC14ADTG		MC74LCX14DTR2G	NA	
MC74AC157DTR2G		NLV74HC595ADTR2G	NA	
MC74AC157DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC14DG		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74AC157DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC139DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC138DTR2G		NLV74HC595ADR2G	NA	
MC74AC139DTR2G		NLV74HC595ADR2G	NA	
MC74AC138DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC132DG		MC74LCX14DR2G	NA	
MC74AC132DR2G		MC74LCX14DR2G	NA	
MC74AC125DG		MC74LCX14DR2G	NA	
MC74AC125DTR2G		MC74LCX14DTR2G	NA	
MC74AC11DR2G		MC74LCX14DR2G	NA	
MC74AC10DR2G		MC74LCX14DR2G	NA	
MC74AC11DG		MC74LCX14DR2G	NA	
MC74AC10DG		MC74LCX14DR2G	NA	
MC74AC05DR2G		MC74LCX14DR2G	NA	
MC74AC08DR2G		MC74LCX14DR2G	NA	
MC74AC05DG		MC74LCX14DR2G	NA	
MC74AC04DTR2G		MC74LCX14DTR2G	NA	
MC74AC04DG		MC74LCX14DR2G	NA	
MC74AC02DTR2G		MC74LCX14DTR2G	NA	
MC74AC00DTR2G		MC74LCX14DTR2G	NA	
MC74AC02DG		MC74LCX14DR2G	NA	
M74VHCT126ADR2G		MC74LCX14DTR2G	NA	
MC74AC00DG		MC74LCX14DR2G	NA	
MC74HCT4851ADR2G		MC74HC4851ADTR2G, NLVHC4851ADTR2G	NA	
MC74AC245DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HCT4094ADR2G		TBD	NA	
MC74AC245DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC245DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC244DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC244DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC244DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC240DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC240DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC20DG		MC74LCX14DR2G	NA	
MC74AC20DR2G		MC74LCX14DR2G	NA	
MC74AC161DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC163DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC161DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74AC541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC541SC		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74AC540SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	

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74AC541MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC32MTCX		MC74LCX14DTR2G	NA	
74AC32SCX		MC74LCX14DR2G	NA	
74AC245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC245SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74AC245MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC244SC	74AC244SC-ND	MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74AC244SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74AC244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC139SCX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74AC240SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74AC138SC		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74AC139MTCX		NLV74HC595ADTR2G	NA	
74AC08SCX		MC74LCX14DR2G	NA	
74AC138MTCX		NLV74HC595ADTR2G	NA	
74AC04SCX		MC74LCX14DR2G	NA	
74AC08MTCX		MC74LCX14DTR2G	NA	
74AC04MTCX		MC74LCX14DTR2G	NA	
74AC04SC	74AC04SC-ND	MC74LCX14DR2G	NA	
74AC00SCX		MC74LCX14DR2G	NA	
74AC04MTC		MC74LCX14DTR2G	NA	
74LCX240MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74AC00MTCX		MC74LCX14DTR2G	NA	
74LCX16374MTDX		TBD	NA	
74LCX2244MTCX		TBD	NA	
74LCX16245MTDX		TBD	NA	
74LCX16244MTDX		TBD	NA	
74LCX16373MTDX		TBD	NA	
74LCX157MTCX		NLV74HC595ADTR2G	NA	
74LCX157MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74LCX14BQX		74LCX14BQX	NA	
74LCX14MTCX		MC74LCX14DTR2G	NA	
74LCX138MTCX		NLV74HC595ADTR2G	NA	
74LCX138MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74LCX126MTCX		MC74LCX14DTR2G	NA	
74LCX138BQX		NLV74HC595AMN1TWG	NA	
74LCX125MTCX		MC74LCX14DTR2G	NA	
74LCX126BQX		74LCX14BQX	NA	
74LCX125BQX		74LCX14BQX	NA	
74LCX125MTC		MC74LCX14DTR2G	NA	
74LCX112MTCX		NLV74HC595ADTR2G	NA	
74LCX11MTCX		MC74LCX14DTR2G	NA	
74LCX08BQX		74LCX14BQX	NA	
74LCX08MTCX		MC74LCX14DTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74AC273DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC245DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC273DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC273DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC574ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC32DG		MC74LCX14DR2G	NA	
MC74HC595ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC589ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74VHC4052DTR2G		TBD	NA	
MC74HC595ADTG		NLV74HC595ADTR2G	NA	
MC74VHC573DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74VHC4053DR2G		TBD	NA	
MC74VHC74DTR2G		MC74LCX14DTR2G	NA	
MC74VHC74DR2G		MC74LCX14DR2G	NA	
MC74VHCT08ADR2G		MC74LCX14DR2G	NA	
MC74VHCT04ADTR2G		MC74LCX14DTR2G	NA	
MC74VHCT132ADTRG		MC74LCX14DTR2G	NA	
MC74VHCT125ADTRG		MC74LCX14DTR2G	NA	
MC74VHCT244ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT50ADTR2G		MC74LCX14DTR2G	NA	
MC74VHCT573ADTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT541ADTRG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74VHCT74ADTR2G		MC74LCX14DTR2G	NA	
MM74HC126MTCX		MC74LCX14DTR2G	NA	
MM74HC00M		MC74LCX14DR2G	NA	
MM74HC14MTCX		MC74LCX14DTR2G	NA	
MM74HC138MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HC14MX		MC74LCX14DR2G	NA	
MM74HC540WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC595M	MM74HC595M-ND	MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HC573WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC86MX		MC74LCX14DR2G	NA	
MM74HC74AMX		MC74LCX14DR2G	NA	
MM74HCT164MX		MC74LCX14DR2G	NA	
MM74HCT04MTCX		MC74LCX14DTR2G	NA	
MM74HCT245MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX4066DR2G		TBD	NA	
MM74HCT541WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX4245DTR2G		TBD	NA	
MC74LVX4066DTR2G		TBD	NA	
MC74VHC125DTR2G		MC74LCX14DTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74LVX541DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
NC7SP14P5X		NC7SP14P5X	NA	
NC7SP125P5X		NC7SP14P5X	NA	
NC7SV34P5X		NC7SP14P5X	NA	
NC7SP17P5X		NC7SP14P5X	NA	
MC74VHC240DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74FST3257MN2TWG		TBD	NA	
MC74VHCT86ADTR2G		MC74LCX14DTR2G	NA	
MC74HCT86ADTR2G		MC74LCX14DTR2G	NA	
NC7SZ19FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ19L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZU04FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
MC74LVXT8051DTRG		MC74LVX4051DTR2G	NA	
MC74VHC1G04MU2TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	GA	
MC74VHC1G32MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	GA	
NL17SZ08MU3TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	GA	
NL17SZ06XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ07XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ04XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SV32XV5T2G		NL17SV16XV5T2G	NA	
NL17SZ00XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SV08XV5T2G		NL17SV16XV5T2G	NA	
NL17SG32P5T5G		NL17SG14P5T5G	NA	
NL17SV16XV5T2G		NL17SV16XV5T2G	NA	
NL17SG17P5T5G		NL17SG14P5T5G	NA	
NL17SG32DFT2G		NC7SP14P5X	NA	
NL17SG14P5T5G		NL17SG14P5T5G	NA	
NL17SG08DFT2G		NC7SP14P5X	NA	
NC7WZ86L8X		NC7WZ132L8X	NA	
NL17SG07MU3TBG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	GA	
NC7WZU04L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ38K8X		NC7WZ132K8X	NA	
NC7WZ86K8X		NC7WZ132K8X	NA	
NC7WZ241L8X		NC7WZ132L8X	NA	
NC7WZ32K8X		NC7WZ132K8X	NA	
NC7WZ240K8X		NC7WZ132K8X	NA	
NC7WZ241K8X		NC7WZ132K8X	NA	
NC7WZ17L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ16L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ17FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ14L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ16FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ132K8X		NC7WZ132K8X	NA	
NC7WZ14FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ126L8X		NC7WZ132L8X	NA	
NC7WZ125L8X		NC7WZ132L8X	NA	
NC7WZ08L8X		NC7WZ132L8X	NA	
NC7WZ125K8X		NC7WZ132K8X	NA	
NLU1GT126CMUTCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	GA	
NC7WZ08K8X		NC7WZ132K8X	NA	
MM74HCT14MTCX		MC74LCX14DTR2G	NA	
MM74HCT14MX		MC74LCX14DR2G	NA	
MM74HCT138MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HCT14M		MC74LCX14DR2G	NA	
MM74HCT138M		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HCT138MTCX		NLV74HC595ADR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MM74HCT08MX		MC74LCX14DR2G	NA	
MM74HCT138MTC		NLV74HC595ADTR2G	NA	
MM74HCT08MTC		MC74LCX14DTR2G	NA	
MM74HCT08MTCX		MC74LCX14DTR2G	NA	
MM74HCT05MTCX		MC74LCX14DTR2G	NA	
MM74HCT08M		MC74LCX14DR2G	NA	
NLSF595DTR2G		NLV74HC595ADTR2G	NA	
NLSV2T244DR2G		TBD	NA	
NL37WZ17USG		NC7WZ132K8X	NA	
NLSF3T125MNR2G		TBD	NA	
NL37WZ16USG		NC7WZ132K8X	NA	
NLSF1174MNR2G		NLV74HC595AMN1TWG	NA	
NL37WZ07USG		NC7WZ132K8X	NA	
NL37WZ14USG		NC7WZ132K8X	NA	
NL27WZ86USG		NC7WZ132K8X	NA	
NL37WZ04USG		NC7WZ132K8X	NA	
NL27WZ17MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
NL27WZ32USG		NC7WZ132K8X	NA	
NL27WZ126USG		NC7WZ132K8X	NA	
NL27WZ14MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
NL17SZ125XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ126P5T5G		MC74VHC1G08P5T5G	NA	
NC7SZ332L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ57FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ32L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ38L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ175L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ18FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ157FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ157L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ14FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ14L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ125FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ126L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ08FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ11L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ04L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ05L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ00L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ04FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ00FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ02L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SV17P5X		NC7SP14P5X	NA	
NC7SV34L6X		NC7SPU04L6X	NA	
NC7SV157L6X		NC7SPU04L6X	NA	
NC7SV125P5X		NC7SP14P5X	NA	
NC7SV14P5X		NC7SP14P5X	NA	
MC74AC373DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74AC373DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74AC259DG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC32DTR2G		MC74LCX14DTR2G	NA	
MC74AC253DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC257DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74ACT125DTR2G		MC74LCX14DTR2G	NA	
MC74ACT125DR2G		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74ACT244DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT245DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT14DR2G		MC74LCX14DR2G	NA	
MC74ACT540DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74ACT373DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC02ADR2G		MC74LCX14DR2G	NA	
MC74ACT541DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC04ADR2G		MC74LCX14DR2G	NA	
MC74HC03ADR2G		MC74LCX14DR2G	NA	
MC74HC125ADG		MC74LCX14DR2G	NA	
MC74HC08ADR2G		MC74LCX14DR2G	NA	
74AC541SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC132ADR2G		MC74LCX14DR2G	NA	
74ACT04MTCX		MC74LCX14DTR2G	NA	
74ACT00MTCX		MC74LCX14DTR2G	NA	
74ACT14MTC		MC74LCX14DTR2G	NA	
74ACT04SCX		MC74LCX14DR2G	NA	
74ACT245SC		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74ACT541SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74ACT245SCX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
74LCX02MTCX		MC74LCX14DTR2G	NA	
74LCX00MTCX		MC74LCX14DTR2G	NA	
74LCX244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
74LCX244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
FXL4245MPX		TBD	NA	
74LCX244WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
FXL4TD245UMX		TBD	NA	
FXL4TD245BQX		TBD	NA	
FXLA108BQX		TBD	NA	
FXL6408UMX		TBD	NA	
FXLP4555MPX		TBD	NA	
FXLP34P5X		TBD	NA	
FXMA2102UMX		TBD	NA	
FXMA2102L8X		TBD	NA	
FXMAR2104UMX		TBD	NA	
FXMA2104UMX		TBD	NA	
M74LCX16373DTR2G		TBD	NA	
FXWA9306L8X		TBD	NA	
74AC14MTCX		MC74LCX14DTR2G	NA	
74AC138SCX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
74AC14SCX		MC74LCX14DR2G	NA	
74AC14SC		MC74LCX14DR2G	NA	
MC74AC02DR2G		MC74LCX14DR2G	NA	
MC74AC00DR2G		MC74LCX14DR2G	NA	
MC74AC08DG		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74AC04DR2G		MC74LCX14DR2G	NA	
MC74AC125DR2G		MC74LCX14DR2G	NA	
MC74AC08DTR2G		MC74LCX14DTR2G	NA	
MC74AC139DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74AC14DR2G		MC74LCX14DR2G	NA	
MC74AC138DR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC14ADR2G		MC74LCX14DR2G	NA	
MC74AC14DTR2G		MC74LCX14DTR2G	NA	
MC74HC14ADTR2G		MC74LCX14DTR2G	NA	
MC74HC157ADG		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC151ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC165ADR2G		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MC74HC164ADR2G		MC74LCX14DR2G	NA	
MC74HC20ADTR2G		MC74LCX14DTR2G	NA	
MC74HC165ADTR2G		NLV74HC595ADTR2G	NA	
MC74HC245ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC244ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC30ADR2G		MC74LCX14DR2G	NA	
MC74HC273ADWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74HC32ADTR2G		MC74LCX14DTR2G	NA	
MC74HC32ADR2G		MC74LCX14DR2G	NA	
NC7SV125L6X		NC7SPU04L6X	NA	
MC74HC373ADWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
NC7SV08FHX		NC7SV08FHX	NA	
NC7SV08P5X		NC7SP14P5X	NA	
NL27WZ125USG		NC7WZ132K8X	NA	
NC7SV00P5X		NC7SP14P5X	NA	
NL27WZ02USG		NC7WZ132K8X	NA	
NL27WZ08USG		NC7WZ132K8X	NA	
NL17SZ74USG		NC7WZ132K8X	NA	
NL27WZ00USG		NC7WZ132K8X	NA	
NL17SZ17XV5T2GH		NL17SZ08XV5T2GH	NA	
NL17SZ32XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ16XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ17XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ126XV5T2G		NL17SZ08XV5T2GH	NA	
NL17SZ14XV5T2G		NL17SZ08XV5T2GH	NA	
NC7SPU04L6X		NC7SPU04L6X	NA	
NC7SPU04P5X		NC7SP14P5X	NA	
NC7SP08L6X		NC7SPU04L6X	NA	
NC7SP14L6X		NC7SPU04L6X	NA	
NC7S14L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7S32L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7S08L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7S04L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7NZ34L8X		NC7WZ132L8X	NA	
NC7NZ34K8X		NC7WZ132K8X	NA	
MC74VHC1G04MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
NC7NZ17L8X		NC7WZ132L8X	NA	
MC74VHC126DR2G		MC74LCX14DR2G	NA	
MC74VHC125DG		MC74LCX14DR2G	NA	
MC74VHC125DR2G		MC74LCX14DR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74VHC08DR2G		MC74LCX14DR2G	NA	
MC74VHC08DTR2G		MC74LCX14DTR2G	NA	
MC74VHC04DR2G		MC74LCX14DR2G	NA	
MC74VHC04DTR2G		MC74LCX14DTR2G	NA	
MC74VHC02DR2G		MC74LCX14DR2G	NA	
MC74VHC02DTR2G		MC74LCX14DTR2G	NA	
MC74VHC00DR2G		MC74LCX14DR2G	NA	
MC74VHC00DTG		MC74LCX14DTR2G	NA	
MC74LVXT8051DR2G		MC74LVX4051DR2G	NA	
MC74LVXT8053DTRG		MC74LVX4051DTR2G	NA	
MC74LVXT8053DR2G		MC74LVX4051DR2G	NA	
MC74LVXT8051DG		MC74LVX4051DR2G	NA	
MC74LVXT4066DTRG		TBD	NA	
MC74LVXT4053DTG		MC74LVX4051DTR2G	NA	
MC74LVXT4052DTRG		MC74LVX4051DTR2G	NA	
MC74LVXT4052DR2G		MC74LVX4051DR2G	NA	
MC74LVXT4051DTRG		MC74LVX4051DTR2G	NA	
MC74LVXT4051DR2G		MC74LVX4051DR2G	NA	
MC74LVXC3245DTRG		TBD	NA	
MC74LVX86DR2G		MC74LCX14DR2G	NA	
MC74LVX8051DTR2G		MC74LVX4051DTR2G	NA	
MC74LVX573DWR2G		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX74DR2G		MC74LCX14DR2G	NA	
MC74LVX573DTG		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX573DTR2G		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MC74LVX541DWG		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MC74LVX50DTG		MC74LCX14DTR2G	NA	
MC74LVX50DTR2G		MC74LCX14DTR2G	NA	
MC74LVX50DR2G		MC74LCX14DR2G	NA	
MC74LVX4053DTR2G		MC74LVX4051DTR2G	NA	
MC74LVX4245DWR2G		TBD	NA	
MC74LVX4053DR2G		MC74LVX4051DR2G	NA	
NC7NZ17K8X		NC7WZ132K8X	NA	
NC7NZ14K8X		NC7WZ132K8X	NA	
NC7NZ14L8X		NC7WZ132L8X	NA	
NC7NZ04L8X		NC7WZ132L8X	NA	
MM74HCU04MX		MC74LCX14DR2G	NA	
NC7NZ04K8X		NC7WZ132K8X	NA	
MM74HCU04MTCX		MC74LCX14DTR2G	NA	
MM74HCT74MX		MC74LCX14DR2G	NA	
MM74HCU04M		MC74LCX14DR2G	NA	
MM74HCT74MTCX		MC74LCX14DTR2G	NA	
MM74HCT574WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT74M		MC74LCX14DR2G	NA	
MM74HCT574WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT574MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT573WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT574MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT573MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MM74HCT573MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT541WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT541MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT374WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT540MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT374MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT373WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT32MX		MC74LCX14DR2G	NA	
MM74HCT373MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT32MTCX		MC74LCX14DTR2G	NA	
MM74HCT273WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT32M		MC74LCX14DR2G	NA	
MM74HCT273MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT273WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT245WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT273MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT244WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT245MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT244WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HCT244MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT240MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HCT04M		MC74LCX14DR2G	NA	
MM74HCT00MTCX		MC74LCX14DTR2G	NA	
MM74HC86MTCX		MC74LCX14DTR2G	NA	
MM74HC86MTC		MC74LCX14DTR2G	NA	
MM74HC86M		MC74LCX14DR2G	NA	
MM74HCT74AMTCX		MC74LCX14DTR2G	NA	
MM74HCT74AMTC		MC74LCX14DTR2G	NA	
MM74HC74AM	MM74HC74AM-ND	MC74LCX14DR2G	NA	
MM74HC595MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HC595MTCX		NLV74HC595ADTR2G	NA	
MM74HC595MTC		NLV74HC595ADTR2G	NA	
MM74HC574MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC574MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MM74HC573WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC573MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC573MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC541WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC541WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC541MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC541MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC540WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC540MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC374WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC373WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC374WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC373MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC373WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC373MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC32MTCX		MC74LCX14DTR2G	NA	
MM74HC32MX		MC74LCX14DR2G	NA	
MM74HC273WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC32M		MC74LCX14DR2G	NA	
MM74HC273MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC273WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC245AWMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC273MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC245AMTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC245AWM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC245AMTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC244WM	MM74HC244WM-ND	MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC244WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC240WMX		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC244MTC		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	
MM74HC240MTCX		MC74HC244ADTR2G, NLV74HC244ADTR2G	NA	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MM74HC240WM		MC74HC244ADWR2G, NLV74HC244ADWR2G	NA	
MM74HC164MX		MC74LCX14DR2G	NA	
MM74HC175MX		MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HC164MTCX		MC74LCX14DTR2G	NA	
MM74HC164M		MC74LCX14DR2G	NA	
MM74HC175MTCX		NLV74HC595ADTR2G	NA	
MM74HC14M	MM74HC14M-ND	MC74LCX14DR2G	NA	
MM74HC14MTC		MC74LCX14DTR2G	NA	
MM74HC138M	MM74HC138M-ND	MC74HC595ADR2G, NLV74HC595ADR2G	NA	
MM74HC138MTCX		NLV74HC595ADTR2G	NA	
NC7SV04P5X		NC7SP14P5X	NA	
MM74HC132MX		MC74LCX14DR2G	NA	
NC7SV157P6X		NC7SP14P5X, NC7SV157P6X	NA	
MC74ACT10DTR2G		MC74LCX14DTR2G	NA	
NC7SV32P5X		NC7SP14P5X	NA	
NC7WZ07FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ07L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ02L8X		NC7WZ132L8X	NA	
NC7WZ04FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7WZ00K8X		NC7WZ132K8X	NA	
NC7WZ02K8X		NC7WZ132K8X	NA	
NC7WV04P6X		NC7SP14P5X, NC7WV04P6X	NA	
NC7WV17L6X		NC7SPU04L6X	NA	
NC7SZ58L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ86L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ58FHX		NC7WZ14FHX,NC7SZ14L6X	NA	
NC7SZ74L8X		NC7WZ132L8X	NA	
NL17SZ08MU1TCG		NL17SZ08MU1TCG,NL27WZ17MU1TCG	NA	
NC7SZ57L6X		NC7WZ14FHX,NC7SZ14L6X	NA	
NL17SZ125P5T5G		MC74VHC1G08P5T5G	NA	
PCA9306DTR2G		TBD	NA	
NLX1G74MUTCG		MC74VHC3G14MU3TCG	NA	