

Product Change Notice (PCN)

Subject: Add Alternate Assembly Location on VFQFPN Packages

Publication Date: 5/13/2022

Effective Date: 8/12/2022

Revision Description:

Initial Release

Description of Change:

Renesas is adding Unisem, Malaysia as an alternate assembly location for VFQFPN packages. Unisem has been qualified by Renesas as an approved Assembly location. Refer to below table for the current and the alternate assembly locations and its material sets by package type.

There will be changes in the material sets at the alternate assembly location.

No change in the moisture sensitive level as a result of this change.

Material Set	Existing Assembly						Alternate Assembly
	UTL, Thailand	ASEK, Taiwan	ASEC, Taiwan	GEI, Taiwan	JCET, China	Carsem, Malaysia	Unisem, Malaysia
VFQFPN-8 :							
Die Attach Epoxy						QMIS19	EN4900GC
Bonding Wire						EME-G770HCD	EME-G770HJ
Mold Compound						Copper Wire, Gold Wire	Copper Wire, Gold Wire
VFQFPN-16 :							
Die Attach Epoxy	8200T		EN4900G	CRM-1076DJ-G		QMIS19	EN4900GC
Bonding Wire	EME-G770HCD		EME-G700LA	EME-G700HA		EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire		Copper Wire	Copper Wire, Gold Wire		Copper Wire, Gold Wire	Copper Wire, Gold Wire
VFQFPN-20 :							
Die Attach Epoxy	8200T, 8600	EN4900F	EN4900G		EN-4900GC	QMIS19	EN4900GC
Bonding Wire	EME-G770HCD	EME-G631H	EME-G700LA		EME-G700LA	EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire	Copper Wire	Copper Wire, Gold Wire		Copper Wire	Copper Wire	Copper Wire, Gold Wire
VFQFPN-24 :							
Die Attach Epoxy	8200T	EN4900F	EN4900G	CRM-1076DJ-G	EN-4900GC	QMIS19	EN4900GC
Bonding Wire	EME-G770HCD	EME-G631H	EME-G700LA	EME-G700HA	EME-G700LA	EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire	Copper Wire, Gold Wire	Copper Wire	Copper Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire
VFQFPN-32 :							
Die Attach Epoxy	8200T, 8600	EN4900F	EN4900G	CRM-1076DJ-G, EN4900GC	EN-4900GC	QMIS19	EN4900GC
Bonding Wire	EME-G770HCD	EME-G631H	EME-G700LA	EME-G700HA	EME-G700LA	EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire	Copper Wire, Gold Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire
VFQFPN-40 :							
Die Attach Epoxy	8600	EN4900F	EN4900G	CRM-1076DJ-G	EN-4900GC	QMIS19	EN4900GC
Bonding Wire	EME-G770HCD, EME-G700LTD	EME-G631H	EME-G700LA	EME-G700HA	EME-G700LA	EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire
VFQFPN-48 :							
Die Attach Epoxy	8600	EN4900F	EN4900G	CRM-1076DJ-G	EN-4900GC	QMIS19	EN4900GC
Bonding Wire	EME-G770HCD	EME-G631H	EME-G700LA	EME-G700HA	CEL-9240HF	EME-G770HCD	EME-G770HJ
Mold Compound	Copper Wire, Gold Wire	Copper Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire	Copper Wire, Gold Wire	Copper Wire, Gold Wire

Affected Product List: Refer Appendix B.

Reason for Change:

The change is for increased manufacturing capability and business continuity.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

Assembly lot# with prefix "Z" denote Unisem, Malaysia.

Qualification Status: Completed. Refer Appendix A.

Unisem site qualification report is available on request.

Sample Availability Date: 6 weeks from sample request date

Device Material Declaration: Available on request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A - Qualification Results

Affected Package: VFQFPN-16, VFQFPN-32, VFQFPN-40, VFQFPN-48

Qual Vehicle: VFQFPN-48

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1 (Gold wire, Copper wire)	Lot 2 (Gold wire, Copper wire)	Lot 3 (Gold wire, Copper wire)
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25 0/25	0/25 0/25	0/25 0/25
* HAST - biased (130°C/85% RH, 96 Hrs)	JESD22-A110	0/25 0/25	0/25 0/25	0/25 0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25 0/25	0/25 0/25	0/25 0/25
Ball Shear Test	JESD22-B116	0/5 0/5	0/5 0/5	0/5 0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5 0/5	0/5 0/5	0/5 0/5
Physical Dimensions	JESD22-B100	0/30 0/30	0/30 0/30	0/30 0/30
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260°C	0/25 0/25	0/25 0/25	-

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*

Affected Package: VFQFPN-8, VFQFPN-20, VFQFPN-24

Qual Vehicle: VFQFPN-24

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1 (Gold wire, Copper wire)	Lot 2 (Gold wire, Copper wire)	Lot 3 (Gold wire, Copper wire)
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25 0/25	0/25 0/25	0/25 0/25
* HAST - biased (130°C/85% RH, 96 Hrs)	JESD22-A110	0/25 0/25	0/25 0/25	0/25 0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25 0/25	0/25 0/25	0/25 0/25
Ball Shear Test	JESD22-B116	0/5 0/5	0/5 0/5	0/5 0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5 0/5	0/5 0/5	0/5 0/5
Physical Dimensions	JESD22-B100	0/30 0/30	0/30 0/30	0/30 0/30
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260°C	0/25 0/25	0/25 0/25	-

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*

Appendix B - Affected Product List

1894K-32LF	5P49V6913AROONLGI8	6ADI49450NDG8	6V41462NLGI8
1894K-32LFT	5P49V6913AROOTNLGI	6ADI49450NDGH	6V41466NDGI
1894K-40LF	5P49V6914AROONLGI8	6ADI49450NDGH8	6V41466NDGI8
1894K-40LFT	5P49V6914AROOTNLGI	6INT61041NDG	6V41516NLG
1894K-43LF	5P49V6965AROONLGI8	6INT61041NDG/W	6V41516NLG8
1894KI-40LF	5P49V6965AROOTNLGI	6INT61041NDG8	6V41530NLG
1894KI-40LFT	5P50901NBGI	6P40110BNLGI	6V41530NLG8
55705SNBGI	5P50901NBGI8	6P40110BNLGI8	6V41537BNLG
55705SNBGI8	5P50902NBGI	6P40110NLGI	6V41537BNLG8
5L35023BROOTNLGI	5P50902NBGI8	6P40110NLGI8	6V41537NLG
5L35023BROOTNLGI8	5P50912NBGI	6P40210NLGI	6V41537NLG8
5P1103AROOTNLGI	5P50912NBGI8	6P40210NLGI8	6V41538NLG
5P1103AROOTNLGI8	5P50913NBGI	6P41281NLG	6V41538NLG8
5P1105AROOTNLGI	5P50913NBGI8	6P41281NLG8	6V41539NLG
5P1105AROOTNLGI8	5P83908NDGK	6P41282NDG	6V41539NLG8
5P35023BROOTNLGI	5P83908NDGK8	6P41282NDG8	6V41542NLG
5P35023BROOTNLGI8	5PB1110NDGI	6P41283NDG	6V41542NLG8
5P49V5901AROONLGI8	5PB1110NDGI8	6P41283NDG8	6V41545NLG
5P49V5901AROOTNLGI	5PB1110NDGK	6P41310NLGI	6V41545NLG8
5P49V5901BROONLGI8	5PB1110NDGK8	6P41310NLGI8	6V41555BNLG
5P49V5901BROOTNLGI	5PB1206NDGK	6P41312NLG	6V41555BNLG8
5P49V5913AROONLGI8	5PB1206NDGK8	6P41312NLG8	6V41555NLG
5P49V5913AROOTNLGI	5PB1216NDGK	6P41360NLG	6V41555NLG8
5P49V5913BROONLGI8	5PB1216NDGK8	6P41360NLG8	6V41564NLGI
5P49V5913BROOTNLGI	5V41064NLG	6P41501NLG	6V41564NLGI8
5P49V5914AROONLGI8	5V41064NLG8	6P41501NLG8	6V41565NLGI
5P49V5914AROOTNLGI	5V41064NLGI	6P41558BNLGI	6V41565NLGI8
5P49V5914BROONLGI8	5V41064NLGI8	6P41558BNLGI8	6V41606BNLG
5P49V5914BROOTNLGI	5V41065NLG	6P41561NLGI	6V41606BNLG8
5P49V5923AROONLGI8	5V41065NLG8	6P41561NLGI8	6V41630BNLG
5P49V5923AROOTNLGI	5V41065NLGI	6P50016BNLGI	6V41630BNLG8
5P49V5923BROONLGI8	5V41065NLGI8	6P50016BNLGI8	6V41638BNLG
5P49V5923BROOTNLGI	5V41185NLG	6U41362NLG	6V41638BNLG8
5P49V5925AROONLGI8	5V41185NLG8	6U41362NLG8	6V41642BNLG
5P49V5925AROOTNLGI	5V41185NLGI	6U49420DNDG	6V41642BNLG8
5P49V5925BROONLGI8	5V41185NLGI8	6U49420DNDG8	6V41742BKLF
5P49V5925BROOTNLGI	5V41234NLG	6U49420DNDGH	6V41742BKLFT
5P49V5927AROONLGI8	5V41234NLG8	6U49420DNDGH8	6V49323ANLGI
5P49V5927AROOTNLGI	5V41234NLGI	6V31024NLG	6V49323ANLGI8
5P49V5927BROONLGI8	5V41234NLGI8	6V31024NLG8	6V49R901-158NLGI8
5P49V5927BROOTNLGI	5V41235NLG	6V40102NLGI	6V61036NDG
5P49V5929AROONLGI8	5V41235NLG8	6V40102NLGI8	6V61036NDG8
5P49V5929AROOTNLGI	5V41235NLGI	6V41295NLG	6V61201BNLGI
5P49V5929BROONLGI8	5V41235NLGI8	6V41295NLG8	6V61201BNLGI8
5P49V5929BROOTNLGI	6ADI31051NLG	6V41295NLGI	74FCT3807SNDGI
5P49V6901AROONLGI8	6ADI31051NLG8	6V41295NLGI8	74FCT3807SNDGI8
5P49V6901AROOTNLGI	6ADI49450NDG	6V41462NLGI	810N322BKI-02LF

810N322BKI-02LFT	854S01AKILFT	8S58021AKILFT-09	8T49N006ANLGI8
813N252BKI-04LF	854S712AKILF	8S58035AKILF	8T49N008ANLGI
813N252BKI-04LFT	854S712AKILFT	8S58035AKILFT	8T49N008ANLGI8
813N252BKI-09LF	858S011AKILF	8S89296NLGI	8T49N234NLGI
813N252BKI-09LFT	858S011AKILFT	8S89296NLGI8	8T49N234NLGI8
813N252DKI-02LF	8C83S111AKILF	8S89831AKILF	8T49N240NLGI
813N252DKI-02LFT	8C83S111AKILFT	8S89831AKILFT	8T49N240NLGI8
841N254BKILF	8L3010ANLGI	8S89832AKILF	8T49N241NLGI
841N254BKILFT	8L3010ANLGI8	8S89832AKILFT	8T49N241NLGI8
841N4830AKI-09LF	8L30110NLGI	8S89833AKILF	8T49N242NLGI
841N4830AKI-09LFT	8L30110NLGI8	8S89833AKILF/W	8T49N242NLGI8
841N4830AKILF	8L30205NLGI	8S89833AKILFT	8T53S111NLGI
841N4830AKILFT	8L30205NLGI8	8S89874BKILF	8T53S111NLGI8
841N4830BKI-09LF	8L30210NLGI	8S89874BKILF/W	8T73S1802NLGI
841N4830BKI-09LFT	8L30210NLGI8	8S89874BKILFT	8T73S1802NLGI/W
841N4830BKILF	8P34S1102NLGI	8SLVD1204-33NLGI	8T73S1802NLGI8
841N4830BKILF/W	8P34S1102NLGI8	8SLVD1204-33NLGI8	8T73S208B-01NLGI
841N4830BKILFT	8P34S1106NLGI	8SLVD1204NLGI	8T73S208B-01NLGI8
842S14BK-02LF	8P34S1106NLGI8	8SLVD1204NLGI/W	8T73S208BNLGI
843S07AKILF	8P34S1204NLGI	8SLVD1204NLGI8	8T73S208BNLGI8
843S07AKILFT	8P34S1204NLGI/W	8SLVD1212ANLGI	8T73S208CNLGI
843N571AKILF	8P34S1204NLGI8	8SLVD1212ANLGI/W	8T73S208CNLGI8
843N571AKILFT	8P34S1212NLGI	8SLVD1212ANLGI8	8T74S208ANLGI
843N571BKILF	8P34S1212NLGI8	8SLVD2102NLGI	8T74S208ANLGI8
843N571BKILFT	8P34S2102NLGI	8SLVD2102NLGI/W	8T74S208BNLGI
843S104BKI-133LF	8P34S2102NLGI/W	8SLVD2102NLGI8	8T74S208BNLGI8
843S104BKI-133LFT	8P34S2102NLGI8	8SLVP1102ANLGI	8T74S208C-01NLGI
843S304BKI-100LF	8P34S2106NLGI	8SLVP1102ANLGI/W	8T74S208C-01NLGI8
843S304BKI-100LFT	8P34S2106NLGI/W	8SLVP1102ANLGI8	8T79S308NLGI
849N212CKI-010LF	8P34S2106NLGI8	8SLVP1104ANLGI	8T79S308NLGI/W
849N212CKI-010LFT	8P391208NLGI	8SLVP1104ANLGI8	8T79S308NLGI8
851S201CKILF	8P391208NLGI/W	8SLVP1212ANLGI	8T79S828-08NLGI
851S201CKILFT	8P391208NLGI8	8SLVP1212ANLGI/W	8T79S828-08NLGI8
853S012AKILF	8P791208NLGI	8SLVP1212ANLGI8	8V41N004NLGI
853S012AKILFT	8P791208NLGI/W	8SLVP2102ANLGI	8V41N004NLGI8
853S01AKILF	8P791208NLGI8	8SLVP2102ANLGI/W	8V44N003-497NLGI
853S01AKILF5	8P79208NLGI	8SLVP2102ANLGI8	8V44N003-497NLGI8
853S01AKILFT	8P79208NLGI/W	8SLVP2106ANLGI	8V44N003NLGI
853S111BKILF	8P79208NLGI8	8SLVP2106ANLGI/W	8V44N003NLGI8
853S111BKILF/W	8P79818NLGI	8SLVP2106ANLGI8	8V74S4622NLGI
853S111BKILFT	8P79818NLGI/W	8T39204NLGI	8V74S4622NLGI/W
853S12AKILF	8P79818NLGI8	8T39204NLGI8	8V74S4622NLGI8
853S12AKILFT	8RP1204NLGI	8T39S08ANLGI	8V89308ANLGI
853S9252BKILF	8RP1204NLGI8	8T39S08ANLGI8	8V89308ANLGI8
853S9252BKILF/W	8S58021AKILF	8T49N004ANLGI	8V89704ANLGI
853S9252BKILFT	8S58021AKILF-09	8T49N004ANLGI8	8V89704ANLGI8
854S01AKILF	8S58021AKILFT	8T49N006ANLGI	8V97051ANLGI

8V97051ANLGI/W	9DBL0651BKILF	9DBU0531AKILFT	9DBV0431AKLF
8V97051ANLGI8	9DBL0651BKILFT	9DBU0531AKLF	9DBV0431AKLFT
8V97051LNLGI	9DBL0653ANDGI	9DBU0531AKLFT	9DBV0441AKILF
8V97051LNLGI/W	9DBL0653ANDGI8	9DBU0541AKILF	9DBV0441AKILFT
8V97051LNLGI8	9DBL0741BKILF	9DBU0541AKILFT	9DBV0441AKLF
8V97051NLGI	9DBL0741BKILFT	9DBU0541AKLF	9DBV0441AKLFT
8V97051NLGI/W	9DBL0751BKILF	9DBU0541AKLFT	9DBV0531AKILF
8V97051NLGI8	9DBL0751BKILFT	9DBU0631AKILF	9DBV0531AKILFT
8V97052NLGI	9DBL07P1BROOTKILF	9DBU0631AKILFT	9DBV0531AKLF
8V97052NLGI8	9DBL07P1BROOTKILFT	9DBU0631AKLF	9DBV0531AKLFT
8V97053LNLGI	9DBL0841BKILF	9DBU0631AKLFT	9DBV0541AKILF
8V97053LNLGI/W	9DBL0841BKILFT	9DBU0641AKILF	9DBV0541AKILFT
8V97053LNLGI8	9DBL0843ANDGI	9DBU0641AKILFT	9DBV0541AKLF
8V97053NLGI	9DBL0843ANDGI8	9DBU0641AKLF	9DBV0541AKLFT
8V97053NLGI/W	9DBL0851BKILF	9DBU0641AKLFT	9DBV0631BKILF
8V97053NLGI8	9DBL0851BKILFT	9DBU0731AKILF	9DBV0631BKILFT
932SQ428AKLF	9DBL0853ANDGI	9DBU0731AKILFT	9DBV0631BKLF
932SQ428AKLF-INT	9DBL0853ANDGI8	9DBU0741AKILF	9DBV0631BKLFT
932SQ428AKLFT	9DBL0941BKILF	9DBU0741AKILFT	9DBV0641AKILF
932SQ428AKLFT-INT	9DBL0941BKILFT	9DBU0741AKLF	9DBV0641AKILFT
932SQ430AKLF	9DBL0951BKILF	9DBU0741AKLFT	9DBV0641AKLF
932SQ430AKLFT	9DBL0951BKILFT	9DBU0831AKILF	9DBV0641AKLFT
9D61025BKILF	9DBL09P1BROOTKILF	9DBU0831AKILFT	9DBV0731AKILF
9D61025BKILFT	9DBL09P1BROOTKILFT	9DBU0831AKLF	9DBV0731AKILFT
9DBL0242BKILF	9DBL411BKILF	9DBU0831AKLFT	9DBV0731AKLF
9DBL0242BKILFT	9DBL411BKILFT	9DBU0841AKILF	9DBV0731AKLFT
9DBL0243ANLGI	9DBL411BKLF	9DBU0841AKILFT	9DBV0741AKILF
9DBL0243ANLGI8	9DBL411BKLF-INT	9DBU0841AKLF	9DBV0741AKILFT
9DBL0252BKILF	9DBL411BKLFT	9DBU0841AKLFT	9DBV0741AKLF
9DBL0252BKILF/W	9DBL411BKLFT-INT	9DBU0931AKILF	9DBV0741AKLFT
9DBL0252BKILFT	9DBU0231AKILF	9DBU0931AKILFT	9DBV0831AKILF
9DBL0253ANLGI	9DBU0231AKILFT	9DBU0931AKLF	9DBV0831AKILFT
9DBL0253ANLGI8	9DBU0231AKLF	9DBU0931AKLFT	9DBV0831AKLF
9DBL0442BKILF	9DBU0231AKLFT	9DBU0941AKILF	9DBV0831AKLFT
9DBL0442BKILFT	9DBU0241AKILF	9DBU0941AKILFT	9DBV0841AKILF
9DBL0443ANLGI	9DBU0241AKILFT	9DBU0941AKLF	9DBV0841AKILFT
9DBL0443ANLGI8	9DBU0241AKLF	9DBU0941AKLFT	9DBV0841AKLF
9DBL0452BKILF	9DBU0241AKLFT	9DBV0231AKILF	9DBV0841AKLFT
9DBL0452BKILFT	9DBU0431AKILF	9DBV0231AKILFT	9DBV0931AKILF
9DBL0453ANLGI	9DBU0431AKILFT	9DBV0231AKLF	9DBV0931AKILFT
9DBL0453ANLGI8	9DBU0431AKLF	9DBV0231AKLFT	9DBV0931AKLF
9DBL0455NLGI	9DBU0431AKLFT	9DBV0241AKILF	9DBV0931AKLFT
9DBL0455NLGI8	9DBU0441AKILF	9DBV0241AKILFT	9DBV0941AKILF
9DBL0641BKILF	9DBU0441AKILFT	9DBV0241AKLF	9DBV0941AKILFT
9DBL0641BKILFT	9DBU0441AKLF	9DBV0241AKLFT	9DBV0941AKLF
9DBL0643ANDGI	9DBU0441AKLFT	9DBV0431AKILF	9DBV0941AKLFT
9DBL0643ANDGI8	9DBU0531AKILF	9DBV0431AKILFT	9DFV0531AKLF

9DFV0531AKLFT	9FGL0651CKILF	9FGU0231AKLFT	9FGV0631CKLF
9DML0441AKILF	9FGL0651CKILFT	9FGU0241AKILF	9FGV0631CKLFT
9DML0441AKILFT	9FGL0841AKILF	9FGU0241AKILFT	9FGV0641AKILF
9DML0451AKILF	9FGL0841AKILFT	9FGU0241AKLF	9FGV0641AKILFT
9DML0451AKILFT	9FGL0841CKILF	9FGU0241AKLFT	9FGV0641AKLF
9DML2855NDGI	9FGL0841CKILFT	9FGU0431AKILF	9FGV0641AKLFT
9DML2855NDGI8	9FGL0851AKILF	9FGU0431AKILFT	9FGV0831CKILF
9DMU0131AKILF	9FGL0851AKILFT	9FGU0431AKLF	9FGV0831CKILFT
9DMU0131AKILFT	9FGL0851CKILF	9FGU0431AKLFT	9FGV0831CKLF
9DMU0141AKILF	9FGL0851CKILFT	9FGU0441AKILF	9FGV0831CKLFT
9DMU0141AKILFT	9FGL699AKLF	9FGU0441AKILFT	9FGV0841AKILF
9DMU0431AKILF	9FGL699AKLFT	9FGU0441AKLF	9FGV0841AKILFT
9DMU0431AKILFT	9FGP204BKLF	9FGU0441AKLFT	9FGV0841AKLF
9DMU0441AKILF	9FGP204BKLF-1K	9FGU0631CKILF	9FGV0841AKLFT
9DMU0441AKILFT	9FGP204BKLF-INT	9FGU0631CKILFT	9FGV1001BROOTNBGI
9DMV0131BKILF	9FGP204BKLFT	9FGU0631CKLF	9FGV1001BROOTNBGI8
9DMV0131BKILFT	9FGP204BKLFT-1K	9FGU0631CKLFT	9FGV1001CROOTNBGI
9DMV0141AKILF	9FGP204BKLFT-INT	9FGU0641AKILF	9FGV1001CROOTNBGI8
9DMV0141AKILFT	9FGP205AKLF	9FGU0641AKILFT	9FGV1002BROOTNBGI
9DMV0141BKILF	9FGP205AKLF-1K	9FGU0641AKLF	9FGV1002BROOTNBGI8
9DMV0141BKILFT	9FGP205AKLFT	9FGU0641AKLFT	9FGV1002CROOTNBGI
9DMV0431AKILF	9FGP205AKLFT-1K	9FGU0831CKILF	9FGV1002CROOTNBGI8
9DMV0431AKILFT	9FGP304BKILF	9FGU0831CKILFT	9FGV1004BROOTNBGI
9DMV0441AKILF	9FGP304BKILFT	9FGU0831CKLF	9FGV1004BROOTNBGI8
9DMV0441AKILFT	9FGP315BKILF	9FGU0831CKLFT	9FGV1004CROOTNBGI
9DSL0891NDGI	9FGP315BKILFT	9FGU0841AKILF	9FGV1004CROOTNBGI8
9DSL0891NDGI8	9FGP318BKILF	9FGU0841AKILFT	9INT31H200NLGI
9FGL0241AKILF	9FGP318BKILFT	9FGU0841AKLF	9INT31H200NLGI8
9FGL0241AKILFT	9FGS9091BNBGI	9FGU0841AKLFT	9INT31H400NLGI
9FGL0241CKILF	9FGS9091BNBGI8	9FGV0231AKILF	9INT31H400NLGI8
9FGL0241CKILFT	9FGS9091CNBGI	9FGV0231AKILFT	9LRS3187BKILF
9FGL0251AKILF	9FGS9091CNBGI8	9FGV0231AKLF	9LRS3187BKILF-INT
9FGL0251AKILFT	9FGS9092ANBGI	9FGV0231AKLFT	9LRS3187BKILFT
9FGL0251CKILF	9FGS9092ANBGI8	9FGV0241AKILF	9LRS3187BKILFT-INT
9FGL0251CKILFT	9FGS9092CNBGI	9FGV0241AKILFT	9LRS3187BKLF
9FGL0441AKILF	9FGS9092CNBGI8	9FGV0241AKLF	9LRS3187BKLFT
9FGL0441AKILFT	9FGS9093ANBGI	9FGV0241AKLFT	9M31093ANLGI
9FGL0441CKILF	9FGS9093ANBGI8	9FGV0431AKILF	9M31093ANLGI8
9FGL0441CKILFT	9FGS9093CNBGI	9FGV0431AKILFT	9P40301BKILF
9FGL0451AKILF	9FGS9093CNBGI8	9FGV0431AKLF	9P40301BKILFT
9FGL0451AKILFT	9FGS9095NLGI	9FGV0431AKLFT	9SBV0802AKILF
9FGL0451CKILF	9FGS9095NLGI8	9FGV0441AKILF	9SBV0802AKILFT
9FGL0451CKILFT	9FGS9204ROOTNBGI	9FGV0441AKILFT	9SQL4952CNLGI
9FGL0641CKILF	9FGS9204ROOTNBGI8	9FGV0441AKLF	9SQL4952CNLGI8
9FGL0641CKILFT	9FGU0231AKILF	9FGV0441AKLFT	9SQL4954CNLGI
9FGL0651AKILF	9FGU0231AKILFT	9FGV0631CKILF	9SQL4954CNLGI8
9FGL0651AKILFT	9FGU0231AKLF	9FGV0631CKILFT	9SQL4958CNDGI

9SQL4958CNDGI8	9ZXL0831EKILF	P9235A-RNDGI8	P9242-RBNDGI
9VRS4338DKILF	9ZXL0831EKILFT	P9236A-0NDGI	P9242-RBNDGI8
9VRS4338DKILFT	9ZXL0831EKKLF	P9236A-0NDGI8	P9243-GBNDGI
9VRS4338DKLKF	9ZXL0831EKKLF	P9236A-B0NDGI	P9243-GBNDGI8
9VRS4338DKLKF-INT	9ZXL0832EKILF	P9236A-B0NDGI8	P9245-0NDGI
9VRS4338DKLFT	9ZXL0832EKILFT	P9237-0NDGI	P9245-0NDGI8
9VRS4338DKLFT-INT	9ZXL0851AKLF	P9237-0NDGI8	P9245-R2CNDGI
9VRS4420BKLF	9ZXL0851AKLFT	P9237-10NDGI	P9245-R2CNDGI8
9VRS4420BKLF-INO	9ZXL0851EKILF	P9237-10NDGI8	P9245-R3CNDGI
9VRS4420BKLFT	9ZXL0851EKILFT	P9237-8NDGI	P9245-R3CNDGI8
9VRS4420BKLFT-INO	9ZXL0851EKKLF	P9237-8NDGI8	P9247-0NDGI
9VRS4420DKILF	9ZXL0851EKKLF	P9237-9NDGI	P9247-0NDGI8
9VRS4420DKILFT	9ZXL0852EKILF	P9237-9NDGI8	P9247-4NDGI
9VRS4420DKLKF	9ZXL0852EKILFT	P9237-ROOTNDGI	P9247-4NDGI8
9VRS4420DKLKF-INT	DELL0255NLGI	P9237-ROOTNDGI8	P9247-6NDGI
9VRS4420DKLFT	DELL0255NLGI8	P9241-GB1NDGI	P9247-6NDGI8
9VRS4420DKLFT-INT	DELL0452BKILF	P9241-GB1NDGI8	P9247-GBNDGI
9VRS4450AKILF	DELL0452BKILFT	P9241-GBNDGI	P9247-GBNDGI8
9VRS4450AKILFT	DELL0455NLGI	P9241-GBNDGI8	P9247-RBNDGI
9VRS4450AKLF	DELL0455NLGI8	P9241-GNDGI	P9247-RBNDGI8
9VRS4450AKLF-INT	DELL0651BKILF	P9241-GNDGI8	
9VRS4450AKLFT	DELL0651BKILFT	P9242-G1NDGI	
9VRS4450AKLFT-INT	DELL0851BKILF	P9242-G1NDGI8	
9VRS4451AKILF	DELL0851BKILFT	P9242-G2NDGI	
9VRS4451AKILFT	LDS6203NTGI	P9242-G2NDGI8	
9VRS4451AKLF	LDS6203NTGI8	P9242-G3NDGI	
9VRS4451AKLFT	LDS6204NTGI	P9242-G3NDGI8	
9Z61106EKILF	LDS6204NTGI8	P9242-G8NDGI	
9Z61106EKILFT	P9235-0NDGI	P9242-G8NDGI8	
9Z61108EKILF	P9235-0NDGI8	P9242-G9NDGI	
9Z61108EKILFT	P9235-17NDGI	P9242-G9NDGI8	
9Z61405NLGI	P9235-17NDGI8	P9242-GBNDGI	
9Z61405NLGI8	P9235A-0NDGI	P9242-GBNDGI8	
9Z61806NDGI	P9235A-0NDGI8	P9242-GNDGI	
9Z61806NDGI8	P9235A-16NDGI	P9242-GNDGI8	
9ZXL0451EKILF	P9235A-16NDGI8	P9242-P3NDGI	
9ZXL0451EKILFT	P9235A-8NDGI	P9242-P3NDGI8	
9ZXL0631EKILF	P9235A-8NDGI8	P9242-P4NDGI	
9ZXL0631EKILFT	P9235A-B0NDGI	P9242-P4NDGI8	
9ZXL0632EKILF	P9235A-B0NDGI8	P9242-R0NDGI	
9ZXL0632EKILFT	P9235A-R3NDGI	P9242-R0NDGI8	
9ZXL0651AKLF	P9235A-R3NDGI8	P9242-R3NDGI	
9ZXL0651AKLFT	P9235A-R4NDGI	P9242-R3NDGI8	
9ZXL0651EKILF	P9235A-R4NDGI8	P9242-R4NDGI	
9ZXL0651EKILFT	P9235A-RBNDGI	P9242-R4NDGI8	
9ZXL0831AKLF	P9235A-RBNDGI8	P9242-R6NDGI	
9ZXL0831AKLFT	P9235A-RNDGI	P9242-R6NDGI8	