

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 | A SEK, Taiwan | A SEC, 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 |

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|-------------------|-----------------|-------------------|-------------------|
| 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 |

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|-------------------|--------------------|----------------|----------------|
| 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 |

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|-------------------|----------------|-----------------|----------------|
| 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 | |