



Initial Product/Process Change Notification

Document #: IPCN24856X

Issue Date: 29 Sep 2022

| | | |
|---|--|--|
| Title of Change: | Qualification of alternate mold compound GR710 for DPAK & IPAK. | |
| Proposed First Ship date: | 30 Apr 2023 or earlier if approved by customer | |
| Contact Information: | Contact your local onsemi Sales Office or Yun.Cui@onsemi.com | |
| PCN Samples Contact: | Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. | |
| Type of Notification: | This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com > | |
| Marking of Parts/ Traceability of Change: | Keep same marking. Changed material will be identified by lot code. | |
| Change Category: | Assembly Change | |
| Change Sub-Category(s): | Material Change | |
| Sites Affected: | | |
| onsemi Sites | External Foundry/Subcon Sites | |
| onsemi Suzhou, China | None | |
| Description and Purpose: | | |
| <p>This IPCN is to inform customers that onsemi is qualifying new green mold compound GR710 from China local supplier Hysol, as alternative source on selected DPAK & IPAK Discrete products in onsemi Suzhou, China.</p> <p>This will help improve supply chain flexibility.</p> <p>And SUMITOMO will discontinue non-green mold compound EME 6600CS, GR710 will be the replacement.</p> <p>There are no changes in product electrical specifications.</p> | | |
| | Before Change Description | After Change Description |
| Mold Compound for DPAK | KTMC5400SM CEL8240HF10FC KTMC5900GM EME 6600CS | KTMC5400SM CEL8240HF10FC KTMC5900GM GR710 |
| Mold Compound for IPAK | CEL8240HF10FC | CEL8240HF10FC GR710 |
| There is no product marking change as a result of this change. | | |



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Qualification Plan:

QV DEVICE NAME: FGD5T120SH

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _150_°C, 100_% max rated V | 1008_ hrs |
| HTGB | JESD22-A108 | Tj= _150_°C, 100% max rated Vgss | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _150_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 500_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

QV DEVICE NAME: HGTD1N120BNS9A

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _150_°C, 80_% max rated V | 1008_ hrs |
| HTGB | JESD22-A108 | Tj= _150_°C, 100% max rated Vgss | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _150_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 1000_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

QV DEVICE NAME: RFD16N05SM9A

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _175_°C, 80_% max rated V | 1008_ hrs |
| HTGB | JESD22-A108 | Tj= _175_°C, 100% max rated Vgss | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _175_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 1000_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |



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QV DEVICE NAME: NTD600N80S3Z

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _150_°C, 100_% max rated V | 1008_ hrs |
| HTGB | JESD22-A108 | Tj= _150_°C, 100% max rated Vgss | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _150_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 1000_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

QV DEVICE NAME: KSC5502DTM

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _150_°C, 80_% max rated V | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _150_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 500_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

QV DEVICE NAME: RURD4120S9A-F085

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _175_°C, 80_% max rated V | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _175_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 1000_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, delta, Tj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |



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QV DEVICE NAME: FQD6N40CTM-NBEA002

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _150_°C, 80_% max rated V | 1008_ hrs |
| HTGB | JESD22-A108 | Tj= _150_°C, 100% max rated Vgss | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _150_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 500_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

QV DEVICE NAME: FFSD1065B-F085

PACKAGE: DPAK

| Test | Specification | Condition | Interval |
|----------|--------------------|---|------------|
| HTRB | JESD22-A108 | Tj= _175_°C, 100_% max rated V | 1008_ hrs |
| HTSL | JESD22-A103 | Ta= _175_°C | 1008_ hrs |
| TC+PC | JESD22-A104 | Ta= -_55_°C to +_150_°C | 1000_ cyc |
| HAST+PC | JESD22-A110 | Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V | 96hrs |
| UHAST+PC | JESD22-A118 | Temp = 130C, RH=85%, ~ 18.8 psig | 96hrs |
| IOL+PC | MIL STD750, M 1037 | Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff | 15000_ cyc |
| RSH | JESD22-B106 | Ta=265C, 10 sec | |
| SD | JSTD002 | Ta = 245C, 5 sec | |

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [**PCN Customized Portal**](#).

| Part Number | Qualification Vehicle |
|---------------|-----------------------|
| FFSD08120A | FFSD1065B-F085 |
| KSC5402DTF | KSC5502DTM |
| FCU360N65S3R0 | NTD600N80S3Z |
| FFSD2065B | FFSD1065B-F085 |
| NTD600N80S3Z | NTD600N80S3Z |
| RURD420S9A | RURD4120S9A-F085 |



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| | |
|-----------------|--------------------|
| FCU600N65S3R0 | NTD600N80S3Z |
| FFSD0465A | FFSD1065B-F085 |
| NTD250N65S3H | NTD600N80S3Z |
| HUF76609D3ST | RFD16N05SM9A |
| FFSD1065B | FFSD1065B-F085 |
| FDD2670 | FQD6N40CTM-NBEA002 |
| FFSD10120A | FFSD1065B-F085 |
| FFD10UP20S | RURD4120S9A-F085 |
| NTD360N65S3H | NTD600N80S3Z |
| FDD5680 | FQD6N40CTM-NBEA002 |
| FFSD0865A | FFSD1065B-F085 |
| FFSD0665A | FFSD1065B-F085 |
| FDD3670 | FQD6N40CTM-NBEA002 |
| FJD3305H1TM | KSC5502DTM |
| FDD86113LZ | FQD6N40CTM-NBEA002 |
| MJD50TF | KSC5502DTM |
| FFSD0665B | FFSD1065B-F085 |
| FDD3690 | FQD6N40CTM-NBEA002 |
| FCD900N60Z | NTD600N80S3Z |
| FCU900N60Z | NTD600N80S3Z |
| FDD6690A | FQD6N40CTM-NBEA002 |
| FDD2572 | FQD6N40CTM-NBEA002 |
| HUF76629D3ST | RFD16N05SM9A |
| FCD7N60TM-WS | NTD600N80S3Z |
| RFD12N06RLESM9A | RFD16N05SM9A |
| FDD3860 | FQD6N40CTM-NBEA002 |
| FJD5304DTF | KSC5502DTM |
| HUF75329D3ST | RFD16N05SM9A |
| FCD620N60ZF | NTD600N80S3Z |
| FDD8870 | FQD6N40CTM-NBEA002 |
| FDD86326 | FQD6N40CTM-NBEA002 |
| FDD6630A | FQD6N40CTM-NBEA002 |
| FDD8647L | FQD6N40CTM-NBEA002 |
| FQD3P50TM | FQD6N40CTM-NBEA002 |



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| | |
|----------------|--------------------|
| RFD14N05LSM | RFD16N05SM9A |
| RFD16N06LESM9A | RFD16N05SM9A |
| FDD3N40TM | FQD6N40CTM-NBEA002 |
| FCD5N60TM-WS | NTD600N80S3Z |
| FFSD0865B | FFSD1065B-F085 |
| FFSD1065A | FFSD1065B-F085 |
| FDD850N10L | FQD6N40CTM-NBEA002 |
| FDD5N60NZTM | FQD6N40CTM-NBEA002 |
| FQD4P40TM | FQD6N40CTM-NBEA002 |
| FCD7N60TM | NTD600N80S3Z |
| FQD30N06TM | FQD6N40CTM-NBEA002 |
| FCD4N60TM | NTD600N80S3Z |
| FQD2N90TM | FQD6N40CTM-NBEA002 |
| FDD5N50NZTM | FQD6N40CTM-NBEA002 |
| FQD6N40CTM | FQD6N40CTM-NBEA002 |
| FCD380N60E | NTD600N80S3Z |
| FDD7N20TM | FQD6N40CTM-NBEA002 |
| FDD18N20LZ | FQD6N40CTM-NBEA002 |
| RFD16N05LSM9A | RFD16N05SM9A |
| FCD5N60TM | NTD600N80S3Z |
| FDD8453LZ | FQD6N40CTM-NBEA002 |
| FCD2250N80Z | NTD600N80S3Z |
| FDD8444 | FQD6N40CTM-NBEA002 |
| FDD86540 | FQD6N40CTM-NBEA002 |
| FGD5T120SH | FGD5T120SH |
| FDD10AN06A0 | FQD6N40CTM-NBEA002 |
| FDD2582 | FQD6N40CTM-NBEA002 |
| FQD16N25CTM | FQD6N40CTM-NBEA002 |
| FQD5N60CTM | FQD6N40CTM-NBEA002 |
| FDD8451 | FQD6N40CTM-NBEA002 |
| RFD3055LESM9A | RFD16N05SM9A |
| FDD6670A | FQD6N40CTM-NBEA002 |
| FQD13N10TM | FQD6N40CTM-NBEA002 |
| FDD1600N10ALZ | FQD6N40CTM-NBEA002 |



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|---------------|--------------------|
| FQD13N10LTM | FQD6N40CTM-NBEA002 |
| FQD7N20LTM | FQD6N40CTM-NBEA002 |
| FDD5353 | FQD6N40CTM-NBEA002 |
| FDD6685 | FQD6N40CTM-NBEA002 |
| FCD3400N80Z | NTD600N80S3Z |
| FDD16AN08A0 | FQD6N40CTM-NBEA002 |
| FDD8447L | FQD6N40CTM-NBEA002 |
| RFD14N05SM9A | RFD16N05SM9A |
| FJD5553TM | KSC5502DTM |
| FGD4536TM | HGTD1N120BNS9A |
| FDD8880 | FQD6N40CTM-NBEA002 |
| FDD8876 | FQD6N40CTM-NBEA002 |
| FDD120AN15A0 | FQD6N40CTM-NBEA002 |
| FDD3672 | FQD6N40CTM-NBEA002 |
| FQD2P40TM | FQD6N40CTM-NBEA002 |
| FJD5555TM | KSC5502DTM |
| FCD600N60Z | NTD600N80S3Z |
| FQD13N06LTM | FQD6N40CTM-NBEA002 |
| FQD7P20TM | FQD6N40CTM-NBEA002 |
| RFD14N05LSM9A | RFD16N05SM9A |
| FQD12N20LTM | FQD6N40CTM-NBEA002 |
| FDD86110 | FQD6N40CTM-NBEA002 |
| FCD1300N80Z | NTD600N80S3Z |
| FDD390N15A | FQD6N40CTM-NBEA002 |
| FQD5P20TM | FQD6N40CTM-NBEA002 |
| HUF76407D3ST | RFD16N05SM9A |
| FDD4685 | FQD6N40CTM-NBEA002 |
| FDD7N25LZTM | FQD6N40CTM-NBEA002 |
| FQD18N20V2TM | FQD6N40CTM-NBEA002 |
| FDD306P | FQD6N40CTM-NBEA002 |
| FQD11P06TM | FQD6N40CTM-NBEA002 |
| FDD86250 | FQD6N40CTM-NBEA002 |
| KSC5502DTM | KSC5502DTM |
| FQD19N10LTM | FQD6N40CTM-NBEA002 |



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| | |
|----------------|--------------------|
| FDD3682 | FQD6N40CTM-NBEA002 |
| FQD8P10TM | FQD6N40CTM-NBEA002 |
| FDD6637 | FQD6N40CTM-NBEA002 |
| FDD86252 | FQD6N40CTM-NBEA002 |
| FCD850N80Z | NTD600N80S3Z |
| FQD17P06TM | FQD6N40CTM-NBEA002 |
| FDD390N15ALZ | FQD6N40CTM-NBEA002 |
| FDD8896 | FQD6N40CTM-NBEA002 |
| FGD3N60UNDF | HGTD1N120BNS9A |
| HUF75321D3ST | RFD16N05SM9A |
| FDD86102 | FQD6N40CTM-NBEA002 |
| FCD360N65S3R0 | NTD600N80S3Z |
| FDD13AN06A0 | FQD6N40CTM-NBEA002 |
| FDD86102LZ | FQD6N40CTM-NBEA002 |
| FCD600N65S3R0 | NTD600N80S3Z |
| FDD4243 | FQD6N40CTM-NBEA002 |
| NTD360N80S3Z | NTD600N80S3Z |
| HGTD1N120BNS9A | HGTD1N120BNS9A |
| RFD16N05SM9A | RFD16N05SM9A |
| FDD8424H | FQD6N40CTM-NBEA002 |
| FCD260N65S3 | NTD600N80S3Z |
| FDD86369 | FQD6N40CTM-NBEA002 |
| FDD86367 | FQD6N40CTM-NBEA002 |
| FDD8880-G | FQD6N40CTM-NBEA002 |

Appendix A: Changed Products

DIKG: DIGI-KEY (page 1 of 3)

| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|-----------------|----------------------|-----------------------|-----------------|----------------------|
| FFSD08120A | | FFSD1065B-F085 | NA | |
| KSC5402DTF | | KSC5502DTM | NA | |
| NTD600N80S3Z | | NTD600N80S3Z | NA | |
| FCU600N65S3R0 | | NTD600N80S3Z | NA | |
| NTD250N65S3H | | NTD600N80S3Z | NA | |
| HUF76609D3ST | | RFD16N05SM9A | NA | |
| FFSD2065B | | FFSD1065B-F085 | NA | |
| FDD2670 | | FQD6N40CTM-NBEA002 | NA | |
| FFSD1065B | | FFSD1065B-F085 | NA | |
| FFSD10120A | | FFSD1065B-F085 | NA | |
| FFD10UP20S | | RURD4120S9A-F085 | NA | |
| NTD360N65S3H | | NTD600N80S3Z | NA | |
| FDD3670 | | FQD6N40CTM-NBEA002 | NA | |
| FDD5680 | | FQD6N40CTM-NBEA002 | NA | |
| MJD50TF | | KSC5502DTM | NA | |
| FJD3305H1TM | | KSC5502DTM | NA | |
| FFSD0665B | | FFSD1065B-F085 | NA | |
| FDD86113LZ | | FQD6N40CTM-NBEA002 | NA | |
| FDD3690 | | FQD6N40CTM-NBEA002 | NA | |
| FCD900N60Z | | NTD600N80S3Z | NA | |
| FCU900N60Z | | NTD600N80S3Z | NA | |
| FDD2572 | | FQD6N40CTM-NBEA002 | NA | |
| HUF76629D3ST | | RFD16N05SM9A | NA | |
| FDD6690A | | FQD6N40CTM-NBEA002 | NA | |
| RFD12N06RLESM9A | | RFD16N05SM9A | NA | |
| FDD3860 | | FQD6N40CTM-NBEA002 | NA | |
| FCD7N60TM-WS | | NTD600N80S3Z | NA | |
| HUF75329D3ST | | RFD16N05SM9A | NA | |
| FJD5304DTF | | KSC5502DTM | NA | |
| FDD8870 | | FQD6N40CTM-NBEA002 | NA | |
| FCD620N60ZF | | NTD600N80S3Z | NA | |
| FDD6630A | | FQD6N40CTM-NBEA002 | NA | |
| FDD86326 | | FQD6N40CTM-NBEA002 | NA | |
| FDD8647L | | FQD6N40CTM-NBEA002 | NA | |
| FQD3P50TM | | FQD6N40CTM-NBEA002 | NA | |
| RFD14N05LSM | | RFD16N05SM9A | NA | |
| RFD16N06LESM9A | | RFD16N05SM9A | NA | |
| FCD5N60TM-WS | | NTD600N80S3Z | NA | |
| FDD3N40TM | | FQD6N40CTM-NBEA002 | NA | |
| FFSD0865B | | FFSD1065B-F085 | NA | |
| FFSD1065A | | FFSD1065B-F085 | NA | |
| FDD5N60NZTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD850N10L | | FQD6N40CTM-NBEA002 | NA | |
| FCD7N60TM | | NTD600N80S3Z | NA | |
| FQD4P40TM | | FQD6N40CTM-NBEA002 | NA | |
| FCD4N60TM | | NTD600N80S3Z | NA | |
| FQD30N06TM | | FQD6N40CTM-NBEA002 | NA | |
| FQD2N90TM | | FQD6N40CTM-NBEA002 | NA | |
| FQD6N40CTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD5N50NZTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD7N20TM | | FQD6N40CTM-NBEA002 | NA | |
| FCD380N60E | | NTD600N80S3Z | NA | |
| RFD16N05LSM9A | | RFD16N05SM9A | NA | |
| FDD18N20LZ | | FQD6N40CTM-NBEA002 | NA | |
| FDD8453LZ | | FQD6N40CTM-NBEA002 | NA | |
| FCD5N60TM | | NTD600N80S3Z | NA | |
| FDD8444 | | FQD6N40CTM-NBEA002 | NA | |
| FDD86540 | | FQD6N40CTM-NBEA002 | NA | |
| FGD5T120SH | | FGD5T120SH | NA | |
| FCD2250N80Z | | NTD600N80S3Z | NA | |

Appendix A: Changed Products

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| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|----------------|----------------------|-----------------------|-----------------|----------------------|
| FDD2582 | | FQD6N40CTM-NBEA002 | NA | |
| FDD10AN06A0 | | FQD6N40CTM-NBEA002 | NA | |
| FQD5N60CTM | | FQD6N40CTM-NBEA002 | NA | |
| FQD16N25CTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD8451 | | FQD6N40CTM-NBEA002 | NA | |
| FDD6670A | | FQD6N40CTM-NBEA002 | NA | |
| RFD3055LESM9A | | RFD16N05SM9A | NA | |
| FQD13N10TM | | FQD6N40CTM-NBEA002 | NA | |
| FQD13N10LTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD1600N10ALZ | | FQD6N40CTM-NBEA002 | NA | |
| FDD5353 | | FQD6N40CTM-NBEA002 | NA | |
| FQD7N20LTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD6685 | | FQD6N40CTM-NBEA002 | NA | |
| FDD16AN08A0 | | FQD6N40CTM-NBEA002 | NA | |
| FCD3400N80Z | | NTD600N80S3Z | NA | |
| RFD14N05SM9A | | RFD16N05SM9A | NA | |
| FDD8447L | | FQD6N40CTM-NBEA002 | NA | |
| FDD8880 | | FQD6N40CTM-NBEA002 | NA | |
| FJD5553TM | | KSC5502DTM | NA | |
| FDD120AN15A0 | | FQD6N40CTM-NBEA002 | NA | |
| FDD8876 | | FQD6N40CTM-NBEA002 | NA | |
| FQD2P40TM | | FQD6N40CTM-NBEA002 | NA | |
| FDD3672 | | FQD6N40CTM-NBEA002 | NA | |
| FCD600N60Z | | NTD600N80S3Z | NA | |
| FJD5555TM | | KSC5502DTM | NA | |
| FQD7P20TM | | FQD6N40CTM-NBEA002 | NA | |
| FQD13N06LTM | | FQD6N40CTM-NBEA002 | NA | |
| RFD14N05LSM9A | | RFD16N05SM9A | NA | |
| FDD86110 | | FQD6N40CTM-NBEA002 | NA | |
| FQD12N20LTM | | FQD6N40CTM-NBEA002 | NA | |
| FDD390N15A | | FQD6N40CTM-NBEA002 | NA | |
| FCD1300N80Z | | NTD600N80S3Z | NA | |
| FDD4685 | | FQD6N40CTM-NBEA002 | NA | |
| FQD5P20TM | | FQD6N40CTM-NBEA002 | NA | |
| FQD18N20V2TM | | FQD6N40CTM-NBEA002 | NA | |
| FDD7N25LZTM | | FQD6N40CTM-NBEA002 | NA | |
| FQD11P06TM | | FQD6N40CTM-NBEA002 | NA | |
| FDD306P | | FQD6N40CTM-NBEA002 | NA | |
| KSC5502DTM | | KSC5502DTM | NA | |
| FDD86250 | | FQD6N40CTM-NBEA002 | NA | |
| FQD19N10LTM | | FQD6N40CTM-NBEA002 | NA | |
| FQD8P10TM | | FQD6N40CTM-NBEA002 | NA | |
| FDD3682 | | FQD6N40CTM-NBEA002 | NA | |
| FDD86252 | | FQD6N40CTM-NBEA002 | NA | |
| FDD6637 | | FQD6N40CTM-NBEA002 | NA | |
| FQD17P06TM | | FQD6N40CTM-NBEA002 | NA | |
| FCD850N80Z | | NTD600N80S3Z | NA | |
| FDD8896 | | FQD6N40CTM-NBEA002 | NA | |
| FGD3N60UNDF | | HGTD1N120BNS9A | NA | |
| FDD390N15ALZ | | FQD6N40CTM-NBEA002 | NA | |
| HUF75321D3ST | | RFD16N05SM9A | NA | |
| FCD360N65S3R0 | | NTD600N80S3Z | NA | |
| FDD86102 | | FQD6N40CTM-NBEA002 | NA | |
| FDD13AN06A0 | | FQD6N40CTM-NBEA002 | NA | |
| FDD86102LZ | | FQD6N40CTM-NBEA002 | NA | |
| NTD360N80S3Z | | NTD600N80S3Z | NA | |
| FDD4243 | | FQD6N40CTM-NBEA002 | NA | |
| HGTD1N120BNS9A | | HGTD1N120BNS9A | NA | |
| FDD8424H | | FQD6N40CTM-NBEA002 | NA | |
| RFD16N05SM9A | | RFD16N05SM9A | NA | |

Appendix A: Changed Products

PCN#: IPCN24856X
Issue Date: Sep 30, 2022

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| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|-------------|----------------------|-----------------------|-----------------|----------------------|
| FDD86369 | | FQD6N40CTM-NBEA002 | NA | |
| FCD260N65S3 | | NTD600N80S3Z | NA | |
| FDD86367 | | FQD6N40CTM-NBEA002 | NA | |