



## Final Product/Process Change Notification

Document #: FPCN23288X

Issue Date: 13 Aug 2020

<b>Title of Change:</b>	DPAK-JEDEC 3L Second Source KangQiang Leadframe and Base Material qualification.	
<b>Proposed First Ship date:</b>	20 Nov 2020 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Daisy.Zhi@onsemi.com">Daisy.Zhi@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> 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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:KunChen.Ge@onsemi.com">KunChen.Ge@onsemi.com</a>	
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	No marking change and traceability by date code	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
ON Semiconductor Suzhou, China	None	
<b>Description and Purpose:</b>		
Qualify leadframe as second source supplier and the base material C19210 (KFC).		
Current leadframe base material C14415 is in short supply on the market and lead time 4 months.		
The purpose of the change is for adding DPAK- Jedec 3L alternative source, keep supply chain continuity		
	<b>Before Change Description</b>	<b>After Change Description</b>
<b>LeadFrame</b>	Current Leadframe with C14415	Add alternative leadframe with C19210
There is no product marking change as a result of this change.		

**Reliability Data Summary:**

QV DEVICE NAME: FDD7N60NZTM

RMS: U66399

PACKAGE: DPAK-JEDEC

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
TC-PC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
UHASt-PC	JESD22-A118	130°C,85%RH,18.8psig,unbiased	96hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15

QV DEVICE NAME: FDD6N50TM-F085

RMS: U66452

PACKAGE: DPAK-JEDEC

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
H3TRB-PC	JESD22-A101	Ta= = 85 °C, RH= 85%, bias= 100V for 1008 hrs	1008_hrs	0/80
TC-PC	JESD22-A104	Ta= - 55°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15

QV DEVICE NAME: FQD12N20LTM-F085

RMS: U66461

PACKAGE: DPAK-JEDEC

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= =150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
H3TRB-PC	JESD22-A101	Ta= =85 °C, RH= 85%, bias= 100V for 1008 hrs	1008hrs	0/80
TC-PC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15

**Electrical Characteristics Summary:**

Electrical characteristics are not impacted

**List of Affected Parts:**

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

Part Number	Qualification Vehicle
FDD6N50FTM	FDD7N60NZTM
FDD2670	FDD7N60NZTM
FDD5670	FDD7N60NZTM
FDD3670	FDD7N60NZTM
FCD7N60TM	FDD7N60NZTM
FCD7N60TM-WS	FDD7N60NZTM
FCD5N60TM	FDD7N60NZTM
FCD5N60TM-WS	FDD7N60NZTM
FCD4N60TM	FDD7N60NZTM
FDD8874	FDD7N60NZTM
FQD2N60CTM	FDD7N60NZTM
FDD5680	FDD7N60NZTM
FDD3680	FDD7N60NZTM
FDD3706	FDD7N60NZTM
FQD1N60CTM	FDD7N60NZTM
FDD8876	FDD7N60NZTM
FDD3690	FDD7N60NZTM
FDD5690	FDD7N60NZTM
FDD6680AS	FDD7N60NZTM
FDD8882	FDD7N60NZTM
FDD8878	FDD7N60NZTM
FDD5614P	FDD7N60NZTM
FDD5612	FDD7N60NZTM
FDD306P	FDD7N60NZTM
FDD6630A	FDD7N60NZTM
FDD6530A	FDD7N60NZTM
FDD5N50NZFTM	FDD7N60NZTM
FDD5N50FTM-WS	FDD7N60NZTM
FDD7N25LZTM	FDD7N60NZTM



FDD5N50NZTM	FDD7N60NZTM
FGD3N60UNDF	FDD7N60NZTM
FDD7N20TM	FDD7N60NZTM
FDD6N25TM	FDD7N60NZTM
FDD18N20LZ	FDD7N60NZTM
FDU6N25	FDD7N60NZTM
FDD5N60NZTM	FDD7N60NZTM
FDD390N15A	FDD7N60NZTM
FDD3N50NZTM	FDD7N60NZTM
FDD6N20TM	FDD7N60NZTM
FDD3N40TM	FDD7N60NZTM
FDD8N50NZTM	FDD7N60NZTM
FDD10N20LZTM	FDD7N60NZTM
FDD850N10L	FDD7N60NZTM
FDD5N50TM-WS	FDD7N60NZTM
FDD5N50UTM-WS	FDD7N60NZTM
RFD14N05SM9A	FDD7N60NZTM
FQD5N50CTM-WS	FDD7N60NZTM
RFD14N05LSM	FDD7N60NZTM
KSC5402DTF	FDD7N60NZTM
RFD16N05SM9A	FDD7N60NZTM
HUF75321D3ST	FDD7N60NZTM
FCD850N80Z	FQD12N20LTM-F085
FQD1N80TM	FQD12N20LTM-F085
FDD390N15ALZ	FQD12N20LTM-F085
FDD1600N10ALZ	FQD12N20LTM-F085
FQD2N100TM	FQD12N20LTM-F085
FDD4141	FQD12N20LTM-F085
FDD13AN06A0	FQD12N20LTM-F085
FQD2N80TM	FQD12N20LTM-F085
FDD4243	FQD12N20LTM-F085
FCD380N60E	FQD12N20LTM-F085
FDD3672	FQD12N20LTM-F085
FDD6637	FQD12N20LTM-F085



FQD6N60CTM-WS	FQD12N20LTM-F085
FDD86102LZ	FQD12N20LTM-F085
FDD86252	FQD12N20LTM-F085
FDD8896	FQD12N20LTM-F085
FDD3682	FQD12N20LTM-F085
FDD4685	FQD12N20LTM-F085
FDD8447L	FQD12N20LTM-F085
FDD8770	FQD12N20LTM-F085
FCD2250N80Z	FQD12N20LTM-F085
FDD6685	FQD12N20LTM-F085
FDD86540	FQD12N20LTM-F085
FQD2N90TM	FQD12N20LTM-F085
FDD86102	FQD12N20LTM-F085
FQD5N60CTM-WS	FQD12N20LTM-F085
FDD86110	FQD12N20LTM-F085
FQD5N15TM	FQD12N20LTM-F085
FDD3860	FQD12N20LTM-F085
FDD8880	FQD12N20LTM-F085
FCD900N60Z	FQD12N20LTM-F085
FDD2582	FQD12N20LTM-F085
FDD10AN06A0	FQD12N20LTM-F085
FDD8444	FQD12N20LTM-F085
FDD8880-G	FQD12N20LTM-F085
FQD3P50TM	FQD12N20LTM-F085
FCD1300N80Z	FQD12N20LTM-F085
FCD600N60Z	FQD12N20LTM-F085
FDD8453LZ	FQD12N20LTM-F085
FDD16AN08A0	FQD12N20LTM-F085
FCD620N60ZF	FQD12N20LTM-F085
FDD5353	FQD12N20LTM-F085
FQD6N50CTM	FQD12N20LTM-F085
FDD2572	FQD12N20LTM-F085
MTD3055VL	FQD12N20LTM-F085
FDD8896-G	FQD12N20LTM-F085



FGD4536TM	FQD12N20LTM-F085
FQD5N60CTM	FQD12N20LTM-F085
FDD8870	FQD12N20LTM-F085
FDD8647L	FQD12N20LTM-F085
FQD2N60CTM-WS	FQD12N20LTM-F085
FQD4P40TM	FQD12N20LTM-F085
FCD9N60NTM	FQD12N20LTM-F085
FDD86250	FQD12N20LTM-F085
FQD7N30TM	FQD12N20LTM-F085
FDD4N60NZ	FQD12N20LTM-F085
FDD8782	FQD12N20LTM-F085
FDD8451	FQD12N20LTM-F085
HUF76609D3ST	FQD12N20LTM-F085
HUF76629D3ST	FQD12N20LTM-F085
FCD3400N80Z	FQD12N20LTM-F085
FQD3P50TM-AM002BLT	FQD12N20LTM-F085
FDD6690A	FQD12N20LTM-F085
FDD6612A	FQD12N20LTM-F085
FDD6635	FQD12N20LTM-F085
FDD86113LZ	FQD12N20LTM-F085
FDD8780	FQD12N20LTM-F085
FDD8778	FQD12N20LTM-F085
FDD6688	FQD12N20LTM-F085
FDD86326	FQD12N20LTM-F085
FQD3N60CTM-WS	FQD12N20LTM-F085
FDD6296	FQD12N20LTM-F085
FQD4P40TM-AM002	FQD12N20LTM-F085
FDD120AN15A0	FQD12N20LTM-F085
RURD620CCS9A	FQD12N20LTM-F085
FGD5T120SH	FQD12N20LTM-F085
FQD7P20TM	FQD12N20LTM-F085
FDD3860-G	FQD12N20LTM-F085
FDD6030L	FQD12N20LTM-F085
FDD6670A	FQD12N20LTM-F085



FDD8796	FQD12N20LTM-F085
MTD3055V	FQD12N20LTM-F085
FDD4243-G	FQD12N20LTM-F085
FCD260N65S3	FQD12N20LTM-F085
FCD600N65S3R0	FQD12N20LTM-F085
FQD17N08LTM	FQD12N20LTM-F085
FQD9N25TM-F080	FQD12N20LTM-F085
FQD10N20LTM	FQD12N20LTM-F085
FJD5553TM	FDD6N50TM-F085
KSC5502DTM	FDD6N50TM-F085
FJD5304DTF	FDD6N50TM-F085
HGTD1N120BNS9A	FDD6N50TM-F085
FJD5555TM	FDD6N50TM-F085
SSR1N60BTM-WS	FDD6N50TM-F085
FQD12N20LTM	FDD6N50TM-F085
FQD18N20V2TM	FDD6N50TM-F085
FQD13N06LTM	FDD6N50TM-F085
FQD13N10LTM	FDD6N50TM-F085
FQD16N25CTM	FDD6N50TM-F085
FQD19N10TM	FDD6N50TM-F085
FQD17P06TM	FDD6N50TM-F085
FQD30N06TM	FDD6N50TM-F085
FQD13N10TM	FDD6N50TM-F085
FQD6N25TM	FDD6N50TM-F085
FQD7N10LTM	FDD6N50TM-F085
FQD5N20LTM	FDD6N50TM-F085
HUF76407D3ST	FDD6N50TM-F085
FQD7P06TM	FDD6N50TM-F085
FQD7N20LTM	FDD6N50TM-F085
HGTD7N60C3S9A	FDD6N50TM-F085
FQD13N06TM	FDD6N50TM-F085
FQD5P10TM	FDD6N50TM-F085
FQD12N20TM	FDD6N50TM-F085
FQD9N25TM	FDD6N50TM-F085



FQD4N25TM-WS	FDD6N50TM-F085
RFD12N06RLESM9A	FDD6N50TM-F085
RFD3055LESM9A	FDD6N50TM-F085
FQD2P40TM	FDD6N50TM-F085
FDD6N50TM-WS	FDD7N60NZTM
FDD6N50TM	FDD7N60NZTM
FDD7N60NZTM	FDD7N60NZTM
HUF75329D3ST	FDD6N50TM-F085
RFD16N05LSM9A	FDD6N50TM-F085
RFD16N06LESM9A	FDD6N50TM-F085
RFD14N05LSM9A	FDD6N50TM-F085
FQD10N20CTM	FDD6N50TM-F085
FQD11P06TM	FDD6N50TM-F085
FQD19N10LTM	FDD6N50TM-F085
FQD4N20TM	FDD6N50TM-F085
FQD4P25TM-WS	FDD6N50TM-F085
FQD5P20TM	FDD6N50TM-F085
FQD6N40CTM	FDD6N50TM-F085
FQD8P10TM	FDD6N50TM-F085
FQD20N06TM	FDD6N50TM-F085
FJD3305H1TM	FDD6N50TM-F085
FDD050N03B	FDD6N50TM-F085



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

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

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



## 最終製品 / プロセス変更通知

文書番号# : FPCN23288X

発行日: 13 Aug 2020

変更件名:	DPAK-JEDEC 3L のリードフレームとしてセカンドソース KangQiang と母材の認定	
初回出荷予定日:	20 Nov 2020 またはお客様からの承認が得られた場合はそれ以前。	
連絡先情報:	現地のオン・セミコンダクター営業所または <a href="mailto:Daisy.Zhi@onsemi.com">Daisy.Zhi@onsemi.com</a> にお問い合わせください。	
サンプル:	現地のオン・セミコンダクター営業所または <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> にお問い合わせください。 サンプルは、この変更の初回通知、初回 PCN の日付から 30 日以内に要求してください。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。	
追加の信頼性データ:	お客さまの地域のオン・セミコンダクター営業所または <a href="mailto:KunChen.Ge@onsemi.com">KunChen.Ge@onsemi.com</a> にお問い合わせください。	
通知種別:	これは、お客様宛の最終製品 / プロセス変更通知 (FPCN) です。FPCN は、変更実施の 90 日前に発行されます。 オン・セミコンダクターは、この通知の送付から 30 日以内に書面による問い合わせがない限り、この変更が承諾されたものとみなします。お問い合わせは、 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> 宛てにお願いします。	
変更部品の識別:	マーキングおよび日付コードによるトレーサビリティに変更なし。	
変更カテゴリ:	組立の変更	
変更サブカテゴリ:	材料の変更	
影響を受ける拠点:		
オン・セミコンダクター拠点:	外部製造工場 / 下請業者拠点:	
ON Semiconductor Suzhou, China	無し	
説明および目的:	<p>リードフレームのセカンドソースサプライヤーおよび母材 C19210 (KFC) の認定。</p> <p>現行のリードフレーム母材 C14415 は、市場にて品薄状態にあり、納品まで 4 ヶ月要します。</p> <p>この変更の目的は、DPAK- Jedec 3L の代替サプライヤーを追加し、サプライチェーンの継続性を保つことです。</p>	
	変更前の表記	変更後の表記
リードフレーム	Current Leadframe with C14415	Add alternative leadframe with C19210
今回の変更に伴う製品マーキングの変更はありません。		



## 信頼性データの要約:

デバイス名: FDD7N60NZTM

RMS : U66399

パッケージ : DPAK-JEDEC

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
TC-PC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
UHAST-PC	JESD22-A118	130°C,85%RH,18.8psig,unbiased	96hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15

デバイス名: FDD6N50TM-F085

RMS : U66452

パッケージ : DPAK-JEDEC

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
H3TRB-PC	JESD22-A101	Ta= = 85 °C, RH= 85%, bias= 100V for 1008 hrs	1008_hrs	0/80
TC-PC	JESD22-A104	Ta= - 55°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15

デバイス名: FQD12N20LTM-F085

RMS : U66461

パッケージ : DPAK-JEDEC

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= =150 °C	1008 hrs	0/80
PC	J-STD-020, JESD-A113	MSL1@260°C (Per datasheet as required)		
H3TRB-PC	JESD22-A101	Ta= =85 °C, RH= 85%, bias= 100V for 1008 hrs	1008hrs	0/80
TC-PC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
LI	JESD22B105	Condition C lead fatigue		0/15



## 電気的特性の要約:

電気的特性への影響はありません。

## 影響を受ける部品の一覧:

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

部品番号	認定試験用ピークル
FDD6N50FTM	FDD7N60NZTM
FDD2670	FDD7N60NZTM
FDD5670	FDD7N60NZTM
FDD3670	FDD7N60NZTM
FCD7N60TM	FDD7N60NZTM
FCD7N60TM-WS	FDD7N60NZTM
FCD5N60TM	FDD7N60NZTM
FCD5N60TM-WS	FDD7N60NZTM
FCD4N60TM	FDD7N60NZTM
FDD8874	FDD7N60NZTM
FQD2N60CTM	FDD7N60NZTM
FDD5680	FDD7N60NZTM
FDD3680	FDD7N60NZTM
FDD3706	FDD7N60NZTM
FQD1N60CTM	FDD7N60NZTM
FDD8876	FDD7N60NZTM
FDD3690	FDD7N60NZTM
FDD5690	FDD7N60NZTM
FDD6680AS	FDD7N60NZTM
FDD8882	FDD7N60NZTM
FDD8878	FDD7N60NZTM
FDD5614P	FDD7N60NZTM
FDD5612	FDD7N60NZTM
FDD306P	FDD7N60NZTM
FDD6630A	FDD7N60NZTM
FDD6530A	FDD7N60NZTM
FDD5N50NZFTM	FDD7N60NZTM



FDD5N50FTM-WS	FDD7N60NZTM
FDD7N25LZTM	FDD7N60NZTM
FDD5N50NZTM	FDD7N60NZTM
FGD3N60UNDF	FDD7N60NZTM
FDD7N20TM	FDD7N60NZTM
FDD6N25TM	FDD7N60NZTM
FDD18N20LZ	FDD7N60NZTM
FDU6N25	FDD7N60NZTM
FDD5N60NZTM	FDD7N60NZTM
FDD390N15A	FDD7N60NZTM
FDD3N50NZTM	FDD7N60NZTM
FDD6N20TM	FDD7N60NZTM
FDD3N40TM	FDD7N60NZTM
FDD8N50NZTM	FDD7N60NZTM
FDD10N20LZTM	FDD7N60NZTM
FDD850N10L	FDD7N60NZTM
FDD5N50TM-WS	FDD7N60NZTM
FDD5N50UTM-WS	FDD7N60NZTM
RFD14N05SM9A	FDD7N60NZTM
FQD5N50CTM-WS	FDD7N60NZTM
RFD14N05LSM	FDD7N60NZTM
KSC5402DTF	FDD7N60NZTM
RFD16N05SM9A	FDD7N60NZTM
HUF75321D3ST	FDD7N60NZTM
FCD850N80Z	FQD12N20LTM-F085
FQD1N80TM	FQD12N20LTM-F085
FDD390N15ALZ	FQD12N20LTM-F085
FDD1600N10ALZ	FQD12N20LTM-F085
FQD2N100TM	FQD12N20LTM-F085
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FQD2N80TM	FQD12N20LTM-F085
FDD4243	FQD12N20LTM-F085
FCD380N60E	FQD12N20LTM-F085
FDD3672	FQD12N20LTM-F085



FDD6637	FQD12N20LTM-F085
FQD6N60CTM-WS	FQD12N20LTM-F085
FDD86102LZ	FQD12N20LTM-F085
FDD86252	FQD12N20LTM-F085
FDD8896	FQD12N20LTM-F085
FDD3682	FQD12N20LTM-F085
FDD4685	FQD12N20LTM-F085
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FDD8770	FQD12N20LTM-F085
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FQD2N90TM	FQD12N20LTM-F085
FDD86102	FQD12N20LTM-F085
FQD5N60CTM-WS	FQD12N20LTM-F085
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FDD3860	FQD12N20LTM-F085
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FDD8444	FQD12N20LTM-F085
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FCD600N60Z	FQD12N20LTM-F085
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FDD5353	FQD12N20LTM-F085
FQD6N50CTM	FQD12N20LTM-F085
FDD2572	FQD12N20LTM-F085
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FDD8896-G	FQD12N20LTM-F085



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FDD8647L	FQD12N20LTM-F085
FQD2N60CTM-WS	FQD12N20LTM-F085
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FCD9N60NTM	FQD12N20LTM-F085
FDD86250	FQD12N20LTM-F085
FQD7N30TM	FQD12N20LTM-F085
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RURD620CCS9A	FQD12N20LTM-F085
FGD5T120SH	FQD12N20LTM-F085
FQD7P20TM	FQD12N20LTM-F085
FDD3860-G	FQD12N20LTM-F085
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FDD6670A	FQD12N20LTM-F085
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FQD9N25TM-F080	FQD12N20LTM-F085
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KSC5502DTM	FDD6N50TM-F085
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FJD5555TM	FDD6N50TM-F085
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FQD18N20V2TM	FDD6N50TM-F085
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FQD13N10LTM	FDD6N50TM-F085
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FQD19N10TM	FDD6N50TM-F085
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FQD9N25TM	FDD6N50TM-F085
FQD4N25TM-WS	FDD6N50TM-F085
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FDD6N50TM-WS	FDD7N60NZTM
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FQD4P25TM-WS	FDD6N50TM-F085
FQD5P20TM	FDD6N50TM-F085
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FQD8P10TM	FDD6N50TM-F085
FQD20N06TM	FDD6N50TM-F085
FJD3305H1TM	FDD6N50TM-F085
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