



Title of Change:	Mold compound change due to End of Life of Samsung SDI molding compound – Batch 4
Proposed First Ship date:	4 January 2020
Contact Information:	Contact your local ON Semiconductor Sales Office or < PCN.Support@onsemi.com >
Samples:	Samples should be available after completion of qualification. Contact your local ON Semiconductor Sales Office or < PCN.Samples@onsemi.com > 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.
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 >
Change Part Identification:	Product with date code 2001 or newer will be assembled with a new mold compound.
Change Category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____
Change Sub-Category(s):	<input type="checkbox"/> Manufacturing Site Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____
Sites Affected:	ON Semiconductor Sites: ON Tarlac City, Philippines External Foundry/Subcon Sites: ASE Weihai AUK Dalian Ocean Fine Shantou Huashan Electronic Devices SP Semiconductor and Communications Tak Cheong Electronics Shanwei Universal Global Scientific Industrial

**Description and Purpose:**

ON Semiconductor would like to inform its customers of a change in the mold compound for the devices listed in this IPCN. This change is a result of an end of life notification received for Samsung SDI EMC. The replacement mold compound is still being decided for many packages and will be declared on the Final Product Change Notification, which will be sent out 97 days prior to its implementation.

	Before Change Description	After Change Description
Mold Compound (TO220F-4 Package)	Samsung ST-7100HS	TBD
Mold Compound (TO220-2 Package)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
Mold Compound (TO220F-3 Package)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
Mold Compound (TO3P-5 Package)	Samsung SI7200DX2	TBD
Mold Compound (TO3P-3 Package)	Samsung SL7300HXM/SI7200DX2/SG8200DL	TBD
Mold Compound (TO264-3 Package)	Samsung SL7300HFM	TBD
Mold Compound (TO247-2 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (TO247-3 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (TP247-3 Package)	Samsung SG8200DL	TBD
Mold Compound (TP247-4 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (D2PAK-3 Package)	Samsung SG8200DL	Sumitomo EME-G700HF
Mold Compound (SPM5 Package)	Samsung SL7300HW	KCC KTMC3100GP3
Mold Compound (SPM3 Package)	Samsung SL7300HW	TBD

The qualifications will be completed as quickly as possible, but due to the number of qualifications being performed, multiple Final Product Change Notifications (FPCNs) will be released to customers as the various packages/locations are qualified.

There is no product marking change as a result of this change.

**Qualification Plan:**

All Packages will follow the generic plans shown below based on Package type and application:

IC non-auto:

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta= TBD °C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg °C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C (per datasheet as required)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

Discrete non-auto:

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta= max Tj°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= max Tj°C, 100% max rated Vgss (tech specific)	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = TBD by pkg min	TBD cyc determined by pkg
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C as required by MSL level on datasheet (SMT)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

Estimated date for qualification completion: 30 August 2019 For first packages with additional qualifications after this date.

**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
FDP2D3N10C	FDP2D3N10C
FDP33N25	FQP27P06-SW82127
FDP3632	FDP42AN15A0-SB82024A
FDP3651U	FDP42AN15A0-SB82024A
FDP3652	FDP42AN15A0-SB82024A
FDP3672	FDP42AN15A0-SB82024A
FDP3682	FDP42AN15A0-SB82024A
FDP39N20	FQP27P06-SW82127
FDP42AN15A0	FDP42AN15A0-SB82024A
FDP4D5N10C	FDP2D3N10C
FDP51N25	FQP27P06-SW82127
FDP52N20	FQP27P06-SW82127
FDP55N06	FDP42AN15A0-SB82024A
FDP5800	FDP42AN15A0-SB82024A
FDP5N50NZ	FQP27P06-SW82127
FDP5N60NZ	FQP27P06-SW82127
FDP61N20	FQP27P06-SW82127
FDP65N06	FDP42AN15A0-SB82024A
FDP75N08A	FDP42AN15A0-SB82024A
FDP7N50	FQP27P06-SW82127
FDP7N60NZ	FQP27P06-SW82127
FDP80N06	FDP42AN15A0-SB82024A
FDP8440	FDP8440
FDP8447L	FDP8440
FDP8D5N10C	FDP2D3N10C
FDP8N50NZ	FQP27P06-SW82127
FDPF035N06B-F152	TBD
FDPF041N06BL1	TBD
FDPF045N10A	FDPF2D3N10C
FDPF085N10A	FDPF2D3N10C
FDPF10N60NZ	FDPF2D3N10C
FDPF10N60ZUT	FDPF2D3N10C
FDPF12N50NZ	FDPF2D3N10C



FDPF12N60NZ	FDPF2D3N10C
FDPF13N50NZ	FDPF2D3N10C
FDPF18N20FT-G	FDPF2D3N10C
FDPF19N15A	FDPF2D3N10C
FDPF2D3N10C	FDPF2D3N10C
FDPF320N06L	FDPF2D3N10C
FDPF390N15A	FDPF2D3N10C
FDPF3N50NZ	FDPF2D3N10C
FDPF4D5N10C	FDPF2D3N10C
FDPF4N60NZ	FDPF2D3N10C
FDPF5N50NZ	FDPF2D3N10C
FDPF5N50NZF	FDPF2D3N10C
FDPF5N50NZFT	FDPF2D3N10C
FDPF5N50NZU	FDPF2D3N10C
FDPF5N60NZ	FDPF2D3N10C
FDPF6N60ZUT	FDPF2D3N10C
FDPF770N15A	FDPF2D3N10C
FDPF7N50U-G	FDPF2D3N10C
FDPF7N60NZ	FDPF2D3N10C
FDPF7N60NZT	FDPF2D3N10C
FDPF8D5N10C	FDPF2D3N10C
FDPF8N50NZ	FDPF2D3N10C
FDPF8N50NZF	FDPF2D3N10C
FDPF8N50NZU	FDPF2D3N10C
FDPF8N60ZUT	FDPF2D3N10C
FDPF9N50NZ	FDPF2D3N10C
FQA10N80C-F109	TBD
FQA11N90C-F109	FQA11N90-F109, FQA65N20
FQA11N90-F109	FQA11N90-F109, FQA65N20
FQA13N80-F109	FQA11N90-F109
FQA24N50	FQA65N20
FQA65N20	FQA65N20
FQA6N90C-F109	FQA11N90-F109
FQA70N15	FQA65N20
FQA7N80C-F109	FQA11N90-F109
FQA8N100C	FQA11N90-F109
FQA9N90C-F109	FQA11N90-F109, FQA65N20



FQA9N90-F109	FQA11N90-F109
FQH44N10-F133	FCH023N65S3-F155, FCH041N60F
FQH8N100C	FCH023N65S3-F155
FQL40N50	SGL160N60UFDTU
FQL40N50F	SGL160N60UFDTU
FQNL2N50BTA	TBD
FQP10N20C	FQP27P06-SW82127, FDP22N50N
FQP11N40C	FQP27P06-SW82127, FDP22N50N
FQP11P06	FQP27P06-SW82127, FDP22N50N
FQP12N60C	FQP27P06-SW82127, FQP12N60C, FDP22N50N
FQP12P10	FQP27P06-SW82127, FQP12P20
FQP12P20	FQP27P06-SW82127, FQP12P20
FQP13N06L	FQP27P06-SW82127
FQP13N10	FQP27P06-SW82127, FQP13N50
FQP13N10L	FQP27P06-SW82127
FQP13N50	FQP27P06-SW82127, FQP13N50
FQP13N50C	FQP27P06-SW82127, FQP12N60C
FQP14N30	FQP27P06-SW82127, FQP13N50
FQP15P12	FQP27P06-SW82127, FQP12P20
FQP16N25	FQP27P06-SW82127, FQP13N50
FQP17N40	FQP27P06-SW82127, FQP13N50
FQP17P06	FQP27P06-SW82127, FQP12P20
FQP17P10	FQP27P06-SW82127, FQP12P20
FQP19N20	FQP27P06-SW82127, FQP13N50
FQP19N20C	FQP27P06-SW82127
FQP19N20-T	FQP27P06-SW82127, FQP13N50
FQP20N06	FQP27P06-SW82127, FQP13N50
FQP20N06L	FQP27P06-SW82127, FQP13N50
FQP22N30	FQP27P06-SW82127, FQP13N50
FQP24N08	FQP27P06-SW82127
FQP27N25	FQP27P06-SW82127, FQP13N50
FQP27P06	FQP27P06-SW82127
FQP2N40-F080	FQP27P06-SW82127, FQP13N50
FQP2N60C	FQP27P06-SW82127
FQP2N80	FQP27P06-SW82127
FQP2N90	FQP27P06-SW82127, FQP13N50
FQP2P40-F080	FQP27P06-SW82127, FQP12P20



FQP30N06	FQP27P06-SW82127, FQP13N50
FQP30N06L	FQP27P06-SW82127, FQP13N50
FQP32N20C	FQP27P06-SW82127, FDP22N50N
FQP33N10	FQP27P06-SW82127
FQP34N20	FQP27P06-SW82127, FQP13N50
FQP3N30	FQP27P06-SW82127, FQP13N50
FQP3N50C-F080	FQP27P06-SW82127, FDP22N50N
FQP3N60C	FQP27P06-SW82127
FQP3N80C	FQP27P06-SW82127, FDP22N50N
FQP3P20	FQP27P06-SW82127, FQP12P20
FQP3P50	FQP27P06-SW82127, FQP12P20
FQP44N10	FQP27P06-SW82127, FQP13N50
FQP45N15V2	FQP27P06-SW82127
FQP46N15	FQP27P06-SW82127
FQP47P06	FQP27P06-SW82127, FQP12P20
FQP4N20L	FQP27P06-SW82127, FQP13N50
FQP4N80	FQP27P06-SW82127, FQP13N50
FQP4N90C	FQP27P06-SW82127, FDP22N50N
FQP4P40	FQP27P06-SW82127, FQP12P20
FQP50N06	FQP27P06-SW82127
FQP50N06L	FQP27P06-SW82127, FQP13N50
FQP55N10	FQP27P06-SW82127, FQP13N50
FQP5N60C	FQP27P06-SW82127
FQP65N06	FQP27P06-SW82127, FQP13N50
FQP6N40C	FQP27P06-SW82127, FDP22N50N
FQP6N40CF	FQP27P06-SW82127
FQP6N60C	FQP27P06-SW82127, FDP22N50N
FQP6N70	FQP27P06-SW82127, FQP13N50
FQP6N80C	FQP27P06-SW82127
FQP6N90C	FQP27P06-SW82127, FDP22N50N
FQP70N10	FQP27P06-SW82127
FQP7N20	FQP27P06-SW82127, FQP13N50
FQP7N80C	FQP27P06-SW82127
FQP7P06	FQP27P06-SW82127, FQP12P20
FQP85N06	FQP27P06-SW82127, FQP13N50
FQP8N60C	FQP27P06-SW82127, FQP12N60C
FQP8N80C	FQP27P06-SW82127, FDP22N50N



Initial Product/Process Change Notification

Document # : IPCN22647XC

Issue Date: 19 March 2019

FQP8N90C	FQP27P06-SW82127, FDP22N50N
FQP8P10	FQP27P06-SW82127, FQP12P20
FQP9N30	FQP27P06-SW82127, FQP13N50
FQP9N50C	FQP27P06-SW82127, FQP12N60C
FQP9N90C	FQP27P06-SW82127, FDP22N50N
FQP9P25	FQP27P06-SW82127, FQP12P20

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。



初回製品 / プロセス変更通知

文書番号# : IPCN22647XC

発行日 : 19 March 2019

変更件名:	Samsung SDI 製モールドコンパウンド - Batch 4 の生産終了に伴うモールドコンパウンドの変更	
初回出荷予定日:	4 January 2020	
連絡先情報:	現地のオン・セミコンダクター営業所または < PCN.Support@onsemi.com > にお問い合わせください。	
サンプル:	サンプルは認定完了後に提供が可能となります。 現地のオン・セミコンダクター営業所または < PCN.Samples@onsemi.com > 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。	
通知種別:	これは、お客様宛の初回製品 / プロセス変更通知 (IPCN) です。IPCN は、近日中に実施される変更に関する事前通知であり、変更の詳細および影響を受けるデバイスについての一般情報が記載されます。また、暫定的な信頼性認証計画も記載されます。 最終的な認定データおよび特性データは最終製品 / プロセス変更通知 (FPCN) に含まれます。この IPCN は、変更実施から少なくとも 90 日前に発行される最終製品 / プロセス変更通知 (FPCN) に先だって通知されます。ご不明な点がありましたら、< PCN.Support@onsemi.com > にお問い合わせください。	
変更部品の識別:	日付コード 2001 以降の製品は、新しいモールドコンパウンドで組み立てられます	
変更カテゴリ:	<input type="checkbox"/> ウェハファブの変更 <input checked="" type="checkbox"/> アセンブリの変更 <input type="checkbox"/> 試験の変更 <input type="checkbox"/> その他 _____	
変更サブカテゴリ:	<input type="checkbox"/> 製造拠点の追加 <input checked="" type="checkbox"/> 材料の変更 <input type="checkbox"/> データシート/製品資料の変更 <input type="checkbox"/> 製造拠点の移転 <input type="checkbox"/> 製品仕様の変更 <input type="checkbox"/> 出荷/パッケージング/表記 <input type="checkbox"/> 製造プロセスの変更 <input type="checkbox"/> その他 : _____	
影響を受ける拠点:	オン・セミコンダクター拠点: ON Tarlac City, Philippines	外部製造工場 / 下請業者拠点: ASE Weihai AUK Dalian Ocean Fine Shantou Huashan Electronic Devices SP Semiconductor and Communications Tak Cheong Electronics Shanwei Universal Global Scientific Industrial



説明および目的:

オン・セミコンダクターは、本 IPCN に列記されたデバイスに対するモールドコンパウンドの変更をお客様にお知らせいたします。この変更は、Samsung SDI EMC から受けた生産終了の通知によるものです。代替のモールドコンパウンドは、多くのパッケージ用に使用すると決定されているもので、実施の 97 日前までに送付される最終製品変更通知にて公表されます。

	変更前の表記	変更後の表記
モールド・コンパウンド (TO220F-4 パッケージ)	Samsung ST-7100HS	TBD
モールド・コンパウンド (TO220-2 パッケージ)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
モールド・コンパウンド (TO220F-3 パッケージ)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
モールド・コンパウンド (TO3P-5 パッケージ)	Samsung SI7200DX2	TBD
モールド・コンパウンド (TO3P-3 パッケージ)	Samsung SL7300HXM/SI7200DX2/SG8200DL	TBD
モールド・コンパウンド (TO264-3 パッケージ)	Samsung SL7300HFM	TBD
モールド・コンパウンド (TO247-2 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (TO247-3 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (TP247-3 パッケージ)	Samsung SG8200DL	TBD
モールド・コンパウンド (TP247-4 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (D2PAK-3 パッケージ)	Samsung SG8200DL	Sumitomo EME-G700HF
モールド・コンパウンド (SPM5 パッケージ)	Samsung SL7300HW	KCC KTMC3100GP3
モールド・コンパウンド (SPM3 パッケージ)	Samsung SL7300HW	TBD

認定に関してはできる限り早急に終了する予定ですが、各種パッケージ/場所が認定されることになり、実施される認定が多数になるため、複数の最終製品変更通知 (FPCNs) がお客様に発行されることとなります。

今回の変更に伴う製品表示の変更はありません。



認定計画:

すべてのパッケージは、パッケージタイプおよびアプリケーションに基づき以下に示す一般計画に従います。

IC 非車載:

テスト	仕様	条件	間隔
HTOL	JESD22-A108	Ta= TBD °C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg °C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C (per datasheet as required)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

ディスクリート非車載:

テスト	仕様	条件	間隔
HTRB	JESD22-A108	Ta= max Tj°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= max Tj°C, 100% max rated Vgss (tech specific)	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = TBD by pkg min	TBD cyc determined by pkg
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C as required by MSL level on datasheet (SMT)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

認定完了予定日 : 2019 年 8 月 30 日この日付以降の追加認定に基づく初期パッケージに関して。



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
FDP2D3N10C	FDP2D3N10C
FDP33N25	FQP27P06-SW82127
FDP3632	FDP42AN15A0-SB82024A
FDP3651U	FDP42AN15A0-SB82024A
FDP3652	FDP42AN15A0-SB82024A
FDP3672	FDP42AN15A0-SB82024A
FDP3682	FDP42AN15A0-SB82024A
FDP39N20	FQP27P06-SW82127
FDP42AN15A0	FDP42AN15A0-SB82024A
FDP4D5N10C	FDP2D3N10C
FDP51N25	FQP27P06-SW82127
FDP52N20	FQP27P06-SW82127
FDP55N06	FDP42AN15A0-SB82024A
FDP5800	FDP42AN15A0-SB82024A
FDP5N50NZ	FQP27P06-SW82127
FDP5N60NZ	FQP27P06-SW82127
FDP61N20	FQP27P06-SW82127
FDP65N06	FDP42AN15A0-SB82024A
FDP75N08A	FDP42AN15A0-SB82024A
FDP7N50	FQP27P06-SW82127
FDP7N60NZ	FQP27P06-SW82127
FDP80N06	FDP42AN15A0-SB82024A
FDP8440	FDP8440
FDP8447L	FDP8440
FDP8D5N10C	FDP2D3N10C
FDP8N50NZ	FQP27P06-SW82127
FDPF035N06B-F152	TBD
FDPF041N06BL1	TBD
FDPF045N10A	FDPF2D3N10C
FDPF085N10A	FDPF2D3N10C
FDPF10N60NZ	FDPF2D3N10C
FDPF10N60ZUT	FDPF2D3N10C



FDPF12N50NZ	FDPF2D3N10C
FDPF12N60NZ	FDPF2D3N10C
FDPF13N50NZ	FDPF2D3N10C
FDPF18N20FT-G	FDPF2D3N10C
FDPF190N15A	FDPF2D3N10C
FDPF2D3N10C	FDPF2D3N10C
FDPF320N06L	FDPF2D3N10C
FDPF390N15A	FDPF2D3N10C
FDPF3N50NZ	FDPF2D3N10C
FDPF4D5N10C	FDPF2D3N10C
FDPF4N60NZ	FDPF2D3N10C
FDPF5N50NZ	FDPF2D3N10C
FDPF5N50NZF	FDPF2D3N10C
FDPF5N50NZFT	FDPF2D3N10C
FDPF5N50NZU	FDPF2D3N10C
FDPF5N60NZ	FDPF2D3N10C
FDPF6N60ZUT	FDPF2D3N10C
FDPF770N15A	FDPF2D3N10C
FDPF7N50U-G	FDPF2D3N10C
FDPF7N60NZ	FDPF2D3N10C
FDPF7N60NZT	FDPF2D3N10C
FDPF8D5N10C	FDPF2D3N10C
FDPF8N50NZ	FDPF2D3N10C
FDPF8N50NZF	FDPF2D3N10C
FDPF8N50NZU	FDPF2D3N10C
FDPF8N60ZUT	FDPF2D3N10C
FDPF9N50NZ	FDPF2D3N10C
FQA10N80C-F109	TBD
FQA11N90C-F109	FQA11N90-F109, FQA65N20
FQA11N90-F109	FQA11N90-F109, FQA65N20
FQA13N80-F109	FQA11N90-F109
FQA24N50	FQA65N20
FQA65N20	FQA65N20
FQA6N90C-F109	FQA11N90-F109
FQA70N15	FQA65N20
FQA7N80C-F109	FQA11N90-F109
FQA8N100C	FQA11N90-F109



初回製品 / プロセス変更通知

文書番号# : IPCN22647XC

発行日 : 19 March 2019

FQA9N90C-F109	FQA11N90-F109, FQA65N20
FQA9N90-F109	FQA11N90-F109
FQH44N10-F133	FCH023N65S3-F155, FCH041N60F
FQH8N100C	FCH023N65S3-F155
FQL40N50	SGL160N60UFDTU
FQL40N50F	SGL160N60UFDTU
FQNL2N50BTA	TBD
FQP10N20C	FQP27P06-SW82127, FDP22N50N
FQP11N40C	FQP27P06-SW82127, FDP22N50N
FQP11P06	FQP27P06-SW82127, FDP22N50N
FQP12N60C	FQP27P06-SW82127, FQP12N60C, FDP22N50N
FQP12P10	FQP27P06-SW82127, FQP12P20
FQP12P20	FQP27P06-SW82127, FQP12P20
FQP13N06L	FQP27P06-SW82127
FQP13N10	FQP27P06-SW82127, FQP13N50
FQP13N10L	FQP27P06-SW82127
FQP13N50	FQP27P06-SW82127, FQP13N50
FQP13N50C	FQP27P06-SW82127, FQP12N60C
FQP14N30	FQP27P06-SW82127, FQP13N50
FQP15P12	FQP27P06-SW82127, FQP12P20
FQP16N25	FQP27P06-SW82127, FQP13N50
FQP17N40	FQP27P06-SW82127, FQP13N50
FQP17P06	FQP27P06-SW82127, FQP12P20
FQP17P10	FQP27P06-SW82127, FQP12P20
FQP19N20	FQP27P06-SW82127, FQP13N50
FQP19N20C	FQP27P06-SW82127
FQP19N20-T	FQP27P06-SW82127, FQP13N50
FQP20N06	FQP27P06-SW82127, FQP13N50
FQP20N06L	FQP27P06-SW82127, FQP13N50
FQP22N30	FQP27P06-SW82127, FQP13N50
FQP24N08	FQP27P06-SW82127
FQP27N25	FQP27P06-SW82127, FQP13N50
FQP27P06	FQP27P06-SW82127
FQP2N40-F080	FQP27P06-SW82127, FQP13N50
FQP2N60C	FQP27P06-SW82127
FQP2N80	FQP27P06-SW82127
FQP2N90	FQP27P06-SW82127, FQP13N50



初回製品 / プロセス変更通知

文書番号# : IPCN22647XC

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FQP2P40-F080	FQP27P06-SW82127, FQP12P20
FQP30N06	FQP27P06-SW82127, FQP13N50
FQP30N06L	FQP27P06-SW82127, FQP13N50
FQP32N20C	FQP27P06-SW82127, FDP22N50N
FQP33N10	FQP27P06-SW82127
FQP34N20	FQP27P06-SW82127, FQP13N50
FQP3N30	FQP27P06-SW82127, FQP13N50
FQP3N50C-F080	FQP27P06-SW82127, FDP22N50N
FQP3N60C	FQP27P06-SW82127
FQP3N80C	FQP27P06-SW82127, FDP22N50N
FQP3P20	FQP27P06-SW82127, FQP12P20
FQP3P50	FQP27P06-SW82127, FQP12P20
FQP44N10	FQP27P06-SW82127, FQP13N50
FQP45N15V2	FQP27P06-SW82127
FQP46N15	FQP27P06-SW82127
FQP47P06	FQP27P06-SW82127, FQP12P20
FQP4N20L	FQP27P06-SW82127, FQP13N50
FQP4N80	FQP27P06-SW82127, FQP13N50
FQP4N90C	FQP27P06-SW82127, FDP22N50N
FQP4P40	FQP27P06-SW82127, FQP12P20
FQP50N06	FQP27P06-SW82127
FQP50N06L	FQP27P06-SW82127, FQP13N50
FQP55N10	FQP27P06-SW82127, FQP13N50
FQP5N60C	FQP27P06-SW82127
FQP65N06	FQP27P06-SW82127, FQP13N50
FQP6N40C	FQP27P06-SW82127, FDP22N50N
FQP6N40CF	FQP27P06-SW82127
FQP6N60C	FQP27P06-SW82127, FDP22N50N
FQP6N70	FQP27P06-SW82127, FQP13N50
FQP6N80C	FQP27P06-SW82127
FQP6N90C	FQP27P06-SW82127, FDP22N50N
FQP70N10	FQP27P06-SW82127
FQP7N20	FQP27P06-SW82127, FQP13N50
FQP7N80C	FQP27P06-SW82127
FQP7P06	FQP27P06-SW82127, FQP12P20
FQP85N06	FQP27P06-SW82127, FQP13N50
FQP8N60C	FQP27P06-SW82127, FQP12N60C



初回製品 / プロセス変更通知

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FQP8N80C	FQP27P06-SW82127, FDP22N50N
FQP8N90C	FQP27P06-SW82127, FDP22N50N
FQP8P10	FQP27P06-SW82127, FQP12P20
FQP9N30	FQP27P06-SW82127, FQP13N50
FQP9N50C	FQP27P06-SW82127, FQP12N60C
FQP9N90C	FQP27P06-SW82127, FDP22N50N
FQP9P25	FQP27P06-SW82127, FQP12P20