

Product Change Notice (PCN)

件名: RH850/F1、D1 シリーズ、ボンディングワイヤの Cu ワイヤ化及びバックグラインド拠点、組立拠点、及びファイナルテスト拠点の追加

発行日: 12/28/2021

出荷開始予定日: 7/1/2022 (現行品の最終出荷日:12/31/2023)

改版履歴: 初版

変更内容の説明:

弊社マイコン製品、RH850/F1、D1 シリーズにつきまして安定した供給を行うため、ボンディングワイヤの Cu ワイヤ化、バックグラインド拠点、組立拠点、及びファイナルテスト拠点の追加を行います。つきましては、お客様にてご購入中の製品におきましても、この度変更される材料・拠点にて生産された製品を納入させていただきたく存じます。下記内容をご確認の上、ご承認いただけますようお願い申し上げます。

ウエハプロセス拠点: TSMC(Taiwan Semiconductor Manufacturing Company, Ltd.)及び那珂工場

組立拠点: ASE-KH(Advanced Semiconductor Engineering Inc. Kaohsiung)

ATJ 熊本(Amkor Technology Japan, Inc. Kumamoto)

ファイナルテスト拠点: TPW(TeraPower Technology Inc.)及び TPJ(Tera Probe, Inc. Kyushu Operation Center)

対象製品: RH850/F1、D1 シリーズ

項目		変更有無	変更内容
製品型名		有	例:R7F7010073AFD -C#BA4(ATJ熊本,Cuワイヤ品)
製造拠点	ウエハプロセス	無	
	ウエハテスト	無	
	バックグラインド	有	ATJ熊本が追加になります
	組立	有	D1S1-V2:ATJ熊本が追加になります F1KM:ASE-KH,ATJ熊本が追加になります
	ファイナルテスト	有	Tera Probeが追加になります
ウエハプロセス	パッド開口	有	D1L1/D1L2のみPAD開口が50→55μmに変更になります
ダイボンディング材		無	
ボンディングワイヤ	ワイヤ材質	有	AuワイヤからCuワイヤ材へ変更となります
	ワイヤ径	有	ASE-KH: Φ20um ATJ熊本: Φ18umとなります
マーク仕様		有	Cuワイヤ品は印字の一部に「C」が追加となります
ラベル仕様		有	Cuワイヤ品はラベルの製品型名が変更となります

変更内容の詳細は付録欄“変更内容一覧”をご参照ください。

対象製品リスト: 付録欄“製品リスト”をご参照ください。

変更の理由: 製品の安定供給のため。

外形、実装、機能、品質、信頼性への影響:

本変更による外形、実装、機能、品質、信頼性への影響はありません。

製品の識別方法: 付録欄“Cu ワイヤ品識別方法”をご参照ください。

信頼性データについて: 弊社営業へお申しつけください。

サンプル出荷予定日: 3/31/2022

製品/材料の化学物質データ: 弊社営業へお申しつけください。

ご注意:

1. PCN をお客様にお渡しした後 30 日以内に受理の御連絡を頂けない場合は、変更内容を御承認頂いたものとみなして変更を実施させていただきます。
2. お客様が PCN を受理されて承認手続きのための条件が有る場合は、PCN をお客様にお渡しした後 90 日以内に御連絡をお願い致します。90 日以内に何の御連絡もない場合も御承認頂いたものとみなして変更を実施させていただきます。
3. 変更内容について御承認頂けない場合、最終注文数の御提示と御発注をお願い致します。

この通知に関するお問い合わせは、弊社営業、特約店までお願い致します。

付録

製品リスト

F1L series

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7010063AFE#BA4	R7F7010063AFD#BA4	R7F7010063AFE-C#BA4	R7F7010063AFD-C#BA4
R7F7010063AFE#KA4	R7F7010063AFD#KA4	R7F7010063AFE-C#KA4	R7F7010063AFD-C#KA4
R7F7010064AFE#BA4	R7F7010064AFD#BA4	R7F7010064AFE-C#BA4	R7F7010064AFD-C#BA4
R7F7010064AFE#KA4	R7F7010064AFD#KA4	R7F7010064AFE-C#KA4	R7F7010064AFD-C#KA4
R7F7010073AFE#BA4	R7F7010073AFD#BA4	R7F7010073AFE-C#BA4	R7F7010073AFD-C#BA4
R7F7010073AFE#KA4	R7F7010073AFD#KA4	R7F7010073AFE-C#KA4	R7F7010073AFD-C#KA4
R7F7010074AFE#BA4	R7F7010074AFD#BA4	R7F7010074AFE-C#BA4	R7F7010074AFD-C#BA4
R7F7010074AFE#KA4	R7F7010074AFD#KA4	R7F7010074AFE-C#KA4	R7F7010074AFD-C#KA4
R7F7010263AFE#BA4	R7F7010263AFD#BA4	R7F7010263AFE-C#BA4	R7F7010263AFD-C#BA4
R7F7010263AFE#KA4	R7F7010263AFD#KA4	R7F7010263AFE-C#KA4	R7F7010263AFD-C#KA4
R7F7010264AFE#BA4	R7F7010264AFD#BA4	R7F7010264AFE-C#BA4	R7F7010264AFD-C#BA4
R7F7010264AFE#KA4	R7F7010264AFD#KA4	R7F7010264AFE-C#KA4	R7F7010264AFD-C#KA4
R7F7010273AFE#BA4	R7F7010273AFD#BA4	R7F7010273AFE-C#BA4	R7F7010273AFD-C#BA4
R7F7010273AFE#KA4	R7F7010273AFD#KA4	R7F7010273AFE-C#KA4	R7F7010273AFD-C#KA4
R7F7010274AFE#BA4	R7F7010274AFD#BA4	R7F7010274AFE-C#BA4	R7F7010274AFD-C#BA4
R7F7010274AFE#KA4	R7F7010274AFD#KA4	R7F7010274AFE-C#KA4	R7F7010274AFD-C#KA4
R7F7010283AFE#BA4	R7F7010283AFD#BA4	R7F7010283AFE-C#BA4	R7F7010283AFD-C#BA4
R7F7010283AFE#KA4	R7F7010283AFD#KA4	R7F7010283AFE-C#KA4	R7F7010283AFD-C#KA4
R7F7010284AFE#BA4	R7F7010284AFD#BA4	R7F7010284AFE-C#BA4	R7F7010284AFD-C#BA4
R7F7010284AFE#KA4	R7F7010284AFD#KA4	R7F7010284AFE-C#KA4	R7F7010284AFD-C#KA4
R7F7010293AFE#BA4	R7F7010293AFD#BA4	R7F7010293AFE-C#BA4	R7F7010293AFD-C#BA4
R7F7010293AFE#KA4	R7F7010293AFD#KA4	R7F7010293AFE-C#KA4	R7F7010293AFD-C#KA4
R7F7010294AFE#BA4	R7F7010294AFD#BA4	R7F7010294AFE-C#BA4	R7F7010294AFD-C#BA4
R7F7010294AFE#KA4	R7F7010294AFD#KA4	R7F7010294AFE-C#KA4	R7F7010294AFD-C#KA4
R7F7010303AFE#BA4	R7F7010303AFD#BA4	R7F7010303AFE-C#BA4	R7F7010303AFD-C#BA4
R7F7010303AFE#KA4	R7F7010303AFD#KA4	R7F7010303AFE-C#KA4	R7F7010303AFD-C#KA4
R7F7010304AFE#BA4	R7F7010304AFD#BA4	R7F7010304AFE-C#BA4	R7F7010304AFD-C#BA4
R7F7010304AFE#KA4	R7F7010304AFD#KA4	R7F7010304AFE-C#KA4	R7F7010304AFD-C#KA4
R7F7010323AFE#BA4	R7F7010323AFD#BA4	R7F7010323AFE-C#BA4	R7F7010323AFD-C#BA4
R7F7010323AFE#KA4	R7F7010323AFD#KA4	R7F7010323AFE-C#KA4	R7F7010323AFD-C#KA4
R7F7010324AFE#BA4	R7F7010324AFD#BA4	R7F7010324AFE-C#BA4	R7F7010324AFD-C#BA4
R7F7010324AFE#KA4	R7F7010324AFD#KA4	R7F7010324AFE-C#KA4	R7F7010324AFD-C#KA4
R7F7010333AFE#BA4	R7F7010333AFD#BA4	R7F7010333AFE-C#BA4	R7F7010333AFD-C#BA4
R7F7010333AFE#KA4	R7F7010333AFD#KA4	R7F7010333AFE-C#KA4	R7F7010333AFD-C#KA4
R7F7010334AFE#BA4	R7F7010334AFD#BA4	R7F7010334AFE-C#BA4	R7F7010334AFD-C#BA4
R7F7010334AFE#KA4	R7F7010334AFD#KA4	R7F7010334AFE-C#KA4	R7F7010334AFD-C#KA4
R7F7010343AFE#BA4	R7F7010343AFD#BA4	R7F7010343AFE-C#BA4	R7F7010343AFD-C#BA4
R7F7010343AFE#KA4	R7F7010343AFD#KA4	R7F7010343AFE-C#KA4	R7F7010343AFD-C#KA4
R7F7010344AFE#BA4	R7F7010344AFD#BA4	R7F7010344AFE-C#BA4	R7F7010344AFD-C#BA4
R7F7010344AFE#KA4	R7F7010344AFD#KA4	R7F7010344AFE-C#KA4	R7F7010344AFD-C#KA4
R7F7010463AFE#BA4	R7F7010463AFD#BA4	R7F7010463AFE-C#BA4	R7F7010463AFD-C#BA4
R7F7010463AFE#KA4	R7F7010463AFD#KA4	R7F7010463AFE-C#KA4	R7F7010463AFD-C#KA4
R7F7010464AFE#BA4	R7F7010464AFD#BA4	R7F7010464AFE-C#BA4	R7F7010464AFD-C#BA4
R7F7010464AFE#KA4	R7F7010464AFD#KA4	R7F7010464AFE-C#KA4	R7F7010464AFD-C#KA4

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7010473AFE#BA4	R7F7010473AFD#BA4	R7F7010473AFE-C#BA4	R7F7010473AFD-C#BA4
R7F7010473AFE#KA4	R7F7010473AFD#KA4	R7F7010473AFE-C#KA4	R7F7010473AFD-C#KA4
R7F7010474AFE#BA4	R7F7010474AFD#BA4	R7F7010474AFE-C#BA4	R7F7010474AFD-C#BA4
R7F7010474AFE#KA4	R7F7010474AFD#KA4	R7F7010474AFE-C#KA4	R7F7010474AFD-C#KA4
R7F7010483AFE#BA4	R7F7010483AFD#BA4	R7F7010483AFE-C#BA4	R7F7010483AFD-C#BA4
R7F7010483AFE#KA4	R7F7010483AFD#KA4	R7F7010483AFE-C#KA4	R7F7010483AFD-C#KA4
R7F7010484AFE#BA4	R7F7010484AFD#BA4	R7F7010484AFE-C#BA4	R7F7010484AFD-C#BA4
R7F7010484AFE#KA4	R7F7010484AFD#KA4	R7F7010484AFE-C#KA4	R7F7010484AFD-C#KA4
R7F7010493AFE#BA4	R7F7010493AFD#BA4	R7F7010493AFE-C#BA4	R7F7010493AFD-C#BA4
R7F7010493AFE#KA4	R7F7010493AFD#KA4	R7F7010493AFE-C#KA4	R7F7010493AFD-C#KA4
R7F7010494AFE#BA4	R7F7010494AFD#BA4	R7F7010494AFE-C#BA4	R7F7010494AFD-C#BA4
R7F7010494AFE#KA4	R7F7010494AFD#KA4	R7F7010494AFE-C#KA4	R7F7010494AFD-C#KA4
R7F7010503AFE#BA4	R7F7010503AFD#BA4	R7F7010503AFE-C#BA4	R7F7010503AFD-C#BA4
R7F7010503AFE#KA4	R7F7010503AFD#KA4	R7F7010503AFE-C#KA4	R7F7010503AFD-C#KA4
R7F7010504AFE#BA4	R7F7010504AFD#BA4	R7F7010504AFE-C#BA4	R7F7010504AFD-C#BA4
R7F7010504AFE#KA4	R7F7010504AFD#KA4	R7F7010504AFE-C#KA4	R7F7010504AFD-C#KA4
R7F7010513AFE#BA4	R7F7010513AFD#BA4	R7F7010513AFE-C#BA4	R7F7010513AFD-C#BA4
R7F7010513AFE#KA4	R7F7010513AFD#KA4	R7F7010513AFE-C#KA4	R7F7010513AFD-C#KA4
R7F7010514AFE#BA4	R7F7010514AFD#BA4	R7F7010514AFE-C#BA4	R7F7010514AFD-C#BA4
R7F7010514AFE#KA4	R7F7010514AFD#KA4	R7F7010514AFE-C#KA4	R7F7010514AFD-C#KA4
R7F7010523AFE#BA4	R7F7010523AFD#BA4	R7F7010523AFE-C#BA4	R7F7010523AFD-C#BA4
R7F7010523AFE#BA8	R7F7010523AFD#BA8	R7F7010523AFE-C#BA8	R7F7010523AFD-C#BA8
R7F7010523AFE#KA4	R7F7010523AFD#KA4	R7F7010523AFE-C#KA4	R7F7010523AFD-C#KA4
R7F7010523AFE#KA8	R7F7010523AFD#KA8	R7F7010523AFE-C#KA8	R7F7010523AFD-C#KA8
R7F7010524AFE#BA4	R7F7010524AFD#BA4	R7F7010524AFE-C#BA4	R7F7010524AFD-C#BA4
R7F7010524AFE#KA4	R7F7010524AFD#KA4	R7F7010524AFE-C#KA4	R7F7010524AFD-C#KA4
R7F7010533AFE#BA4	R7F7010533AFD#BA4	R7F7010533AFE-C#BA4	R7F7010533AFD-C#BA4
R7F7010533AFE#BA8	R7F7010533AFD#BA8	R7F7010533AFE-C#BA8	R7F7010533AFD-C#BA8
R7F7010533AFE#KA4	R7F7010533AFD#KA4	R7F7010533AFE-C#KA4	R7F7010533AFD-C#KA4
R7F7010533AFE#KA8	R7F7010533AFD#KA8	R7F7010533AFE-C#KA8	R7F7010533AFD-C#KA8
R7F7010534AFE#BA4	R7F7010534AFD#BA4	R7F7010534AFE-C#BA4	R7F7010534AFD-C#BA4
R7F7010534AFE#KA4	R7F7010534AFD#KA4	R7F7010534AFE-C#KA4	R7F7010534AFD-C#KA4
R7F7010543AFE#BA4	R7F7010543AFD#BA4	R7F7010543AFE-C#BA4	R7F7010543AFD-C#BA4
R7F7010543AFE#KA4	R7F7010543AFD#KA4	R7F7010543AFE-C#KA4	R7F7010543AFD-C#KA4
R7F7010544AFE#BA0	R7F7010544AFD#BA0	R7F7010544AFE-C#BA0	R7F7010544AFD-C#BA0
R7F7010544AFE#BA4	R7F7010544AFD#BA4	R7F7010544AFE-C#BA4	R7F7010544AFD-C#BA4
R7F7010544AFE#KA4	R7F7010544AFD#KA4	R7F7010544AFE-C#KA4	R7F7010544AFD-C#KA4
R7F7010553AFE#BA4	R7F7010553AFD#BA4	R7F7010553AFE-C#BA4	R7F7010553AFD-C#BA4
R7F7010553AFE#KA4	R7F7010553AFD#KA4	R7F7010553AFE-C#KA4	R7F7010553AFD-C#KA4
R7F7010554AFE#BA4	R7F7010554AFD#BA4	R7F7010554AFE-C#BA4	R7F7010554AFD-C#BA4
R7F7010554AFE#KA4	R7F7010554AFD#KA4	R7F7010554AFE-C#KA4	R7F7010554AFD-C#KA4
R7F7010563AFE#BA4	R7F7010563AFD#BA4	R7F7010563AFE-C#BA4	R7F7010563AFD-C#BA4
R7F7010563AFE#KA4	R7F7010563AFD#KA4	R7F7010563AFE-C#KA4	R7F7010563AFD-C#KA4
R7F7010564AFE#BA4	R7F7010564AFD#BA4	R7F7010564AFE-C#BA4	R7F7010564AFD-C#BA4
R7F7010564AFE#KA4	R7F7010564AFD#KA4	R7F7010564AFE-C#KA4	R7F7010564AFD-C#KA4
R7F7010573AFE#BA4	R7F7010573AFD#BA4	R7F7010573AFE-C#BA4	R7F7010573AFD-C#BA4
R7F7010573AFE#KA4	R7F7010573AFD#KA4	R7F7010573AFE-C#KA4	R7F7010573AFD-C#KA4
R7F7010574AFE#BA4	R7F7010574AFD#BA4	R7F7010574AFE-C#BA4	R7F7010574AFD-C#BA4

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7010574AFE#KA4	R7F7010574AFD#KA4	R7F7010574AFE-C#KA4	R7F7010574AFD-C#KA4
R7F701A003AFE#BA4	R7F701A003AFD#BA4	R7F701A003AFE-C#BA4	R7F701A003AFD-C#BA4
R7F701A003AFE#KA4	R7F701A003AFD#KA4	R7F701A003AFE-C#KA4	R7F701A003AFD-C#KA4
R7F701A004AFE#BA4	R7F701A004AFD#BA4	R7F701A004AFE-C#BA4	R7F701A004AFD-C#BA4
R7F701A004AFE#KA4	R7F701A004AFD#KA4	R7F701A004AFE-C#KA4	R7F701A004AFD-C#KA4
R7F701A013AFE#BA4	R7F701A013AFD#BA4	R7F701A013AFE-C#BA4	R7F701A013AFD-C#BA4
R7F701A013AFE#KA4	R7F701A013AFD#KA4	R7F701A013AFE-C#KA4	R7F701A013AFD-C#KA4
R7F701A014AFE#BA4	R7F701A014AFD#BA4	R7F701A014AFE-C#BA4	R7F701A014AFD-C#BA4
R7F701A014AFE#KA4	R7F701A014AFD#KA4	R7F701A014AFE-C#KA4	R7F701A014AFD-C#KA4
R7F7010023AFE#BA4	R7F7010023AFD#BA4	R7F7010023AFE-C#BA4	R7F7010023AFD-C#BA4
R7F7010023AFE#KA4	R7F7010023AFD#KA4	R7F7010023AFE-C#KA4	R7F7010023AFD-C#KA4
R7F7010024AFE#BA4	R7F7010024AFD#BA4	R7F7010024AFE-C#BA4	R7F7010024AFD-C#BA4
R7F7010024AFE#KA4	R7F7010024AFD#KA4	R7F7010024AFE-C#KA4	R7F7010024AFD-C#KA4
R7F7010213AFE#BA4	R7F7010213AFD#BA4	R7F7010213AFE-C#BA4	R7F7010213AFD-C#BA4
R7F7010213AFE#KA4	R7F7010213AFD#KA4	R7F7010213AFE-C#KA4	R7F7010213AFD-C#KA4
R7F7010214AFE#BA4	R7F7010214AFD#BA4	R7F7010214AFE-C#BA4	R7F7010214AFD-C#BA4
R7F7010214AFE#KA4	R7F7010214AFD#KA4	R7F7010214AFE-C#KA4	R7F7010214AFD-C#KA4
R7F7010223AFE#BA4	R7F7010223AFD#BA4	R7F7010223AFE-C#BA4	R7F7010223AFD-C#BA4
R7F7010223AFE#KA4	R7F7010223AFD#KA4	R7F7010223AFE-C#KA4	R7F7010223AFD-C#KA4
R7F7010224AFE#BA4	R7F7010224AFD#BA4	R7F7010224AFE-C#BA4	R7F7010224AFD-C#BA4
R7F7010224AFE#KA4	R7F7010224AFD#KA4	R7F7010224AFE-C#KA4	R7F7010224AFD-C#KA4
R7F7010233AFE#BA4	R7F7010233AFD#BA4	R7F7010233AFE-C#BA4	R7F7010233AFD-C#BA4
R7F7010233AFE#KA4	R7F7010233AFD#KA4	R7F7010233AFE-C#KA4	R7F7010233AFD-C#KA4
R7F7010234AFE#BA4	R7F7010234AFD#BA4	R7F7010234AFE-C#BA4	R7F7010234AFD-C#BA4
R7F7010234AFE#KA4	R7F7010234AFD#KA4	R7F7010234AFE-C#KA4	R7F7010234AFD-C#KA4
R7F701A063AFE#BA4	R7F701A063AFD#BA4	R7F701A063AFE-C#BA4	R7F701A063AFD-C#BA4
R7F701A063AFE#KA4	R7F701A063AFD#KA4	R7F701A063AFE-C#KA4	R7F701A063AFD-C#KA4
R7F701A064AFE#BA4	R7F701A064AFD#BA4	R7F701A064AFE-C#BA4	R7F701A064AFD-C#BA4
R7F701A064AFE#KA4	R7F701A064AFD#KA4	R7F701A064AFE-C#KA4	R7F701A064AFD-C#KA4
R7F701A073AFE#BA4	R7F701A073AFD#BA4	R7F701A073AFE-C#BA4	R7F701A073AFD-C#BA4
R7F701A073AFE#KA4	R7F701A073AFD#KA4	R7F701A073AFE-C#KA4	R7F701A073AFD-C#KA4
R7F701A074AFE#BA4	R7F701A074AFD#BA4	R7F701A074AFE-C#BA4	R7F701A074AFD-C#BA4
R7F701A074AFE#KA4	R7F701A074AFD#KA4	R7F701A074AFE-C#KA4	R7F701A074AFD-C#KA4
R7F701A323AFE#BA4	R7F701A323AFD#BA4	R7F701A323AFE-C#BA4	R7F701A323AFD-C#BA4
R7F701A323AFE#KA4	R7F701A323AFD#KA4	R7F701A323AFE-C#KA4	R7F701A323AFD-C#KA4
R7F701A324AFE#BA4	R7F701A324AFD#BA4	R7F701A324AFE-C#BA4	R7F701A324AFD-C#BA4
R7F701A324AFE#KA4	R7F701A324AFD#KA4	R7F701A324AFE-C#KA4	R7F701A324AFD-C#KA4
R7F701A333AFE#BA4	R7F701A333AFD#BA4	R7F701A333AFE-C#BA4	R7F701A333AFD-C#BA4
R7F701A333AFE#KA4	R7F701A333AFD#KA4	R7F701A333AFE-C#KA4	R7F701A333AFD-C#KA4
R7F701A334AFE#BA4	R7F701A334AFD#BA4	R7F701A334AFE-C#BA4	R7F701A334AFD-C#BA4
R7F701A334AFE#KA4	R7F701A334AFD#KA4	R7F701A334AFE-C#KA4	R7F701A334AFD-C#KA4
R7F701A363AFE#BA4	R7F701A363AFD#BA4	R7F701A363AFE-C#BA4	R7F701A363AFD-C#BA4
R7F701A363AFE#KA4	R7F701A363AFD#KA4	R7F701A363AFE-C#KA4	R7F701A363AFD-C#KA4
R7F701A364AFE#BA4	R7F701A364AFD#BA4	R7F701A364AFE-C#BA4	R7F701A364AFD-C#BA4
R7F701A364AFE#KA4	R7F701A364AFD#KA4	R7F701A364AFE-C#KA4	R7F701A364AFD-C#KA4
R7F7010033AFE#BA2	R7F7010033AFD#BA2	R7F7010033AFE-C#BA2	R7F7010033AFD-C#BA2
R7F7010033AFE#KA2	R7F7010033AFD#KA2	R7F7010033AFE-C#KA2	R7F7010033AFD-C#KA2
R7F7010034AFE#BA2	R7F7010034AFD#BA2	R7F7010034AFE-C#BA2	R7F7010034AFD-C#BA2

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7010034AFE#KA2	R7F7010034AFD#KA2	R7F7010034AFE-C#KA2	R7F7010034AFD-C#KA2
R7F7010243AFE#BA2	R7F7010243AFD#BA2	R7F7010243AFE-C#BA2	R7F7010243AFD-C#BA2
R7F7010243AFE#KA2	R7F7010243AFD#KA2	R7F7010243AFE-C#KA2	R7F7010243AFD-C#KA2
R7F7010244AFE#BA2	R7F7010244AFD#BA2	R7F7010244AFE-C#BA2	R7F7010244AFD-C#BA2
R7F7010244AFE#KA2	R7F7010244AFD#KA2	R7F7010244AFE-C#KA2	R7F7010244AFD-C#KA2
R7F7010253AFE#BA2	R7F7010253AFD#BA2	R7F7010253AFE-C#BA2	R7F7010253AFD-C#BA2
R7F7010253AFE#KA2	R7F7010253AFD#KA2	R7F7010253AFE-C#KA2	R7F7010253AFD-C#KA2
R7F7010254AFE#BA2	R7F7010254AFD#BA2	R7F7010254AFE-C#BA2	R7F7010254AFD-C#BA2
R7F7010254AFE#KA2	R7F7010254AFD#KA2	R7F7010254AFE-C#KA2	R7F7010254AFD-C#KA2
R7F7010443AFE#BA2	R7F7010443AFD#BA2	R7F7010443AFE-C#BA2	R7F7010443AFD-C#BA2
R7F7010443AFE#KA2	R7F7010443AFD#KA2	R7F7010443AFE-C#KA2	R7F7010443AFD-C#KA2
R7F7010444AFE#BA2	R7F7010444AFD#BA2	R7F7010444AFE-C#BA2	R7F7010444AFD-C#BA2
R7F7010444AFE#KA2	R7F7010444AFD#KA2	R7F7010444AFE-C#KA2	R7F7010444AFD-C#KA2
R7F7010453AFE#BA2	R7F7010453AFD#BA2	R7F7010453AFE-C#BA2	R7F7010453AFD-C#BA2
R7F7010453AFE#KA2	R7F7010453AFD#KA2	R7F7010453AFE-C#KA2	R7F7010453AFD-C#KA2
R7F7010454AFE#BA2	R7F7010454AFD#BA2	R7F7010454AFE-C#BA2	R7F7010454AFD-C#BA2
R7F7010454AFE#KA2	R7F7010454AFD#KA2	R7F7010454AFE-C#KA2	R7F7010454AFD-C#KA2

F1M series

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015443AFE#BA2	R7F7015443AFD#BA2	R7F7015443AFE-C#BA2	R7F7015443AFD-C#BA2
R7F7015443AFE#KA2	R7F7015443AFD#KA2	R7F7015443AFE-C#KA2	R7F7015443AFD-C#KA2
R7F7015444AFE#BA2	R7F7015444AFD#BA2	R7F7015444AFE-C#BA2	R7F7015444AFD-C#BA2
R7F7015444AFE#KA2	R7F7015444AFD#KA2	R7F7015444AFE-C#KA2	R7F7015444AFD-C#KA2
R7F7015453AFE#BA2	R7F7015453AFD#BA2	R7F7015453AFE-C#BA2	R7F7015453AFD-C#BA2
R7F7015453AFE#KA2	R7F7015453AFD#KA2	R7F7015453AFE-C#KA2	R7F7015453AFD-C#KA2
R7F7015454AFE#BA2	R7F7015454AFD#BA2	R7F7015454AFE-C#BA2	R7F7015454AFD-C#BA2
R7F7015454AFE#KA2	R7F7015454AFD#KA2	R7F7015454AFE-C#KA2	R7F7015454AFD-C#KA2
R7F7015483AFE#BA2	R7F7015483AFD#BA2	R7F7015483AFE-C#BA2	R7F7015483AFD-C#BA2
R7F7015483AFE#KA2	R7F7015483AFD#KA2	R7F7015483AFE-C#KA2	R7F7015483AFD-C#KA2
R7F7015484AFE#BA2	R7F7015484AFD#BA2	R7F7015484AFE-C#BA2	R7F7015484AFD-C#BA2
R7F7015484AFE#BA6	R7F7015484AFD#BA6	R7F7015484AFE-C#BA6	R7F7015484AFD-C#BA6
R7F7015484AFE#KA2	R7F7015484AFD#KA2	R7F7015484AFE-C#KA2	R7F7015484AFD-C#KA2
R7F7015484AFE#KA6	R7F7015484AFD#KA6	R7F7015484AFE-C#KA6	R7F7015484AFD-C#KA6
R7F7015493AFE#BA2	R7F7015493AFD#BA2	R7F7015493AFE-C#BA2	R7F7015493AFD-C#BA2
R7F7015493AFE#KA2	R7F7015493AFD#KA2	R7F7015493AFE-C#KA2	R7F7015493AFD-C#KA2
R7F7015494AFE#BA2	R7F7015494AFD#BA2	R7F7015494AFE-C#BA2	R7F7015494AFD-C#BA2
R7F7015494AFE#KA2	R7F7015494AFD#KA2	R7F7015494AFE-C#KA2	R7F7015494AFD-C#KA2
R7F7015643AFE#BA2	R7F7015643AFD#BA2	R7F7015643AFE-C#BA2	R7F7015643AFD-C#BA2
R7F7015643AFE#KA2	R7F7015643AFD#KA2	R7F7015643AFE-C#KA2	R7F7015643AFD-C#KA2
R7F7015644AFE#BA2	R7F7015644AFD#BA2	R7F7015644AFE-C#BA2	R7F7015644AFD-C#BA2
R7F7015644AFE#KA2	R7F7015644AFD#KA2	R7F7015644AFE-C#KA2	R7F7015644AFD-C#KA2
R7F7015653AFE#BA2	R7F7015653AFD#BA2	R7F7015653AFE-C#BA2	R7F7015653AFD-C#BA2
R7F7015653AFE#KA2	R7F7015653AFD#KA2	R7F7015653AFE-C#KA2	R7F7015653AFD-C#KA2
R7F7015654AFE#BA2	R7F7015654AFD#BA2	R7F7015654AFE-C#BA2	R7F7015654AFD-C#BA2
R7F7015654AFE#KA2	R7F7015654AFD#KA2	R7F7015654AFE-C#KA2	R7F7015654AFD-C#KA2

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015683AFE#BA2	R7F7015683AFD#BA2	R7F7015683AFE-C#BA2	R7F7015683AFD-C#BA2
R7F7015683AFE#KA2	R7F7015683AFD#KA2	R7F7015683AFE-C#KA2	R7F7015683AFD-C#KA2
R7F7015684AFE#BA2	R7F7015684AFD#BA2	R7F7015684AFE-C#BA2	R7F7015684AFD-C#BA2
R7F7015684AFE#KA2	R7F7015684AFD#KA2	R7F7015684AFE-C#KA2	R7F7015684AFD-C#KA2
R7F7015693AFE#BA2	R7F7015693AFD#BA2	R7F7015693AFE-C#BA2	R7F7015693AFD-C#BA2
R7F7015693AFE#KA2	R7F7015693AFD#KA2	R7F7015693AFE-C#KA2	R7F7015693AFD-C#KA2
R7F7015694AFE#BA2	R7F7015694AFD#BA2	R7F7015694AFE-C#BA2	R7F7015694AFD-C#BA2
R7F7015694AFE#KA2	R7F7015694AFD#KA2	R7F7015694AFE-C#KA2	R7F7015694AFD-C#KA2
R7F701A293AFE#BA2	R7F701A293AFD#BA2	R7F701A293AFE-C#BA2	R7F701A293AFD-C#BA2
R7F701A293AFE#KA2	R7F701A293AFD#KA2	R7F701A293AFE-C#KA2	R7F701A293AFD-C#KA2
R7F701A303AFE#BA2	R7F701A303AFD#BA2	R7F701A303AFE-C#BA2	R7F701A303AFD-C#BA2
R7F701A303AFE#KA2	R7F701A303AFD#KA2	R7F701A303AFE-C#KA2	R7F701A303AFD-C#KA2

F1H series

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015013AFE#BA2	R7F7015013AFD#BA2	R7F7015013AFE-C#BA2	R7F7015013AFD-C#BA2
R7F7015013AFE#KA2	R7F7015013AFD#KA2	R7F7015013AFE-C#KA2	R7F7015013AFD-C#KA2
R7F7015014AFE#BA2	R7F7015014AFD#BA2	R7F7015014AFE-C#BA2	R7F7015014AFD-C#BA2
R7F7015014AFE#KA2	R7F7015014AFD#KA2	R7F7015014AFE-C#KA2	R7F7015014AFD-C#KA2
R7F7015023AFE#BA2	R7F7015023AFD#BA2	R7F7015023AFE-C#BA2	R7F7015023AFD-C#BA2
R7F7015023AFE#KA2	R7F7015023AFD#KA2	R7F7015023AFE-C#KA2	R7F7015023AFD-C#KA2
R7F7015024AFE#BA2	R7F7015024AFD#BA2	R7F7015024AFE-C#BA2	R7F7015024AFD-C#BA2
R7F7015024AFE#KA2	R7F7015024AFD#KA2	R7F7015024AFE-C#KA2	R7F7015024AFD-C#KA2
R7F701A243AFE#BA2	R7F701A243AFD#BA2	R7F701A243AFE-C#BA2	R7F701A243AFD-C#BA2
R7F701A243AFE#KA2	R7F701A243AFD#KA2	R7F701A243AFE-C#KA2	R7F701A243AFD-C#KA2
R7F701A244AFE#BA2	R7F701A244AFD#BA2	R7F701A244AFE-C#BA2	R7F701A244AFD-C#BA2
R7F701A244AFE#KA2	R7F701A244AFD#KA2	R7F701A244AFE-C#KA2	R7F701A244AFD-C#KA2
R7F7015303AFE#BA2	R7F7015303AFD#BA2	R7F7015303AFE-C#BA2	R7F7015303AFD-C#BA2
R7F7015303AFE#KA2	R7F7015303AFD#KA2	R7F7015303AFE-C#KA2	R7F7015303AFD-C#KA2
R7F7015313AFE#BA2	R7F7015313AFD#BA2	R7F7015313AFE-C#BA2	R7F7015313AFD-C#BA2
R7F7015313AFE#KA2	R7F7015313AFD#KA2	R7F7015313AFE-C#KA2	R7F7015313AFD-C#KA2

F1K series

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015423AFE#BA3	R7F7015423AFD#BA3	R7F7015423AFE-C#BA3	R7F7015423AFD-C#BA3
R7F7015423AFE#KA3	R7F7015423AFD#KA3	R7F7015423AFE-C#KA3	R7F7015423AFD-C#KA3
R7F7015424AFE#BA3	R7F7015424AFD#BA3	R7F7015424AFE-C#BA3	R7F7015424AFD-C#BA3
R7F7015424AFE#KA3	R7F7015424AFD#KA3	R7F7015424AFE-C#KA3	R7F7015424AFD-C#KA3
R7F7015433AFE#BA3	R7F7015433AFD#BA3	R7F7015433AFE-C#BA3	R7F7015433AFD-C#BA3
R7F7015433AFE#KA3	R7F7015433AFD#KA3	R7F7015433AFE-C#KA3	R7F7015433AFD-C#KA3
R7F7015434AFE#BA3	R7F7015434AFD#BA3	R7F7015434AFE-C#BA3	R7F7015434AFD-C#BA3
R7F7015434AFE#KA3	R7F7015434AFD#KA3	R7F7015434AFE-C#KA3	R7F7015434AFD-C#KA3
R7F7015463AFE#BA3	R7F7015463AFD#BA3	R7F7015463AFE-C#BA3	R7F7015463AFD-C#BA3
R7F7015463AFE#KA3	R7F7015463AFD#KA3	R7F7015463AFE-C#KA3	R7F7015463AFD-C#KA3
R7F7015464AFE#BA3	R7F7015464AFD#BA3	R7F7015464AFE-C#BA3	R7F7015464AFD-C#BA3

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015464AFE#KA3	R7F7015464AFD#KA3	R7F7015464AFE-C#KA3	R7F7015464AFD-C#KA3
R7F7015473AFE#BA3	R7F7015473AFD#BA3	R7F7015473AFE-C#BA3	R7F7015473AFD-C#BA3
R7F7015473AFE#KA3	R7F7015473AFD#KA3	R7F7015473AFE-C#KA3	R7F7015473AFD-C#KA3
R7F7015474AFE#BA3	R7F7015474AFD#BA3	R7F7015474AFE-C#BA3	R7F7015474AFD-C#BA3
R7F7015474AFE#KA3	R7F7015474AFD#KA3	R7F7015474AFE-C#KA3	R7F7015474AFD-C#KA3
R7F7015543AFE#BA3	R7F7015543AFD#BA3	R7F7015543AFE-C#BA3	R7F7015543AFD-C#BA3
R7F7015543AFE#KA3	R7F7015543AFD#KA3	R7F7015543AFE-C#KA3	R7F7015543AFD-C#KA3
R7F7015544AFE#BA3	R7F7015544AFD#BA3	R7F7015544AFE-C#BA3	R7F7015544AFD-C#BA3
R7F7015544AFE#KA3	R7F7015544AFD#KA3	R7F7015544AFE-C#KA3	R7F7015544AFD-C#KA3
R7F7015553AFE#BA3	R7F7015553AFD#BA3	R7F7015553AFE-C#BA3	R7F7015553AFD-C#BA3
R7F7015553AFE#KA3	R7F7015553AFD#KA3	R7F7015553AFE-C#KA3	R7F7015553AFD-C#KA3
R7F7015554AFE#BA3	R7F7015554AFD#BA3	R7F7015554AFE-C#BA3	R7F7015554AFD-C#BA3
R7F7015554AFE#KA3	R7F7015554AFD#KA3	R7F7015554AFE-C#KA3	R7F7015554AFD-C#KA3
R7F7015573AFE#BA3	R7F7015573AFD#BA3	R7F7015573AFE-C#BA3	R7F7015573AFD-C#BA3
R7F7015573AFE#KA3	R7F7015573AFD#KA3	R7F7015573AFE-C#KA3	R7F7015573AFD-C#KA3
R7F7015574AFE#BA3	R7F7015574AFD#BA3	R7F7015574AFE-C#BA3	R7F7015574AFD-C#BA3
R7F7015574AFE#KA3	R7F7015574AFD#KA3	R7F7015574AFE-C#KA3	R7F7015574AFD-C#KA3
R7F7015623AFE#BA3	R7F7015623AFD#BA3	R7F7015623AFE-C#BA3	R7F7015623AFD-C#BA3
R7F7015623AFE#KA3	R7F7015623AFD#KA3	R7F7015623AFE-C#KA3	R7F7015623AFD-C#KA3
R7F7015624AFE#BA3	R7F7015624AFD#BA3	R7F7015624AFE-C#BA3	R7F7015624AFD-C#BA3
R7F7015624AFE#KA3	R7F7015624AFD#KA3	R7F7015624AFE-C#KA3	R7F7015624AFD-C#KA3
R7F7015633AFE#BA3	R7F7015633AFD#BA3	R7F7015633AFE-C#BA3	R7F7015633AFD-C#BA3
R7F7015633AFE#KA3	R7F7015633AFD#KA3	R7F7015633AFE-C#KA3	R7F7015633AFD-C#KA3
R7F7015634AFE#BA3	R7F7015634AFD#BA3	R7F7015634AFE-C#BA3	R7F7015634AFD-C#BA3
R7F7015634AFE#KA3	R7F7015634AFD#KA3	R7F7015634AFE-C#KA3	R7F7015634AFD-C#KA3
R7F7015663AFE#BA3	R7F7015663AFD#BA3	R7F7015663AFE-C#BA3	R7F7015663AFD-C#BA3
R7F7015663AFE#KA3	R7F7015663AFD#KA3	R7F7015663AFE-C#KA3	R7F7015663AFD-C#KA3
R7F7015664AFE#BA3	R7F7015664AFD#BA3	R7F7015664AFE-C#BA3	R7F7015664AFD-C#BA3
R7F7015664AFE#KA3	R7F7015664AFD#KA3	R7F7015664AFE-C#KA3	R7F7015664AFD-C#KA3
R7F7015673AFE#BA3	R7F7015673AFD#BA3	R7F7015673AFE-C#BA3	R7F7015673AFD-C#BA3
R7F7015673AFE#KA3	R7F7015673AFD#KA3	R7F7015673AFE-C#KA3	R7F7015673AFD-C#KA3
R7F7015674AFE#BA3	R7F7015674AFD#BA3	R7F7015674AFE-C#BA3	R7F7015674AFD-C#BA3
R7F7015674AFE#KA3	R7F7015674AFD#KA3	R7F7015674AFE-C#KA3	R7F7015674AFD-C#KA3
R7F7015753AFE#BA3	R7F7015753AFD#BA3	R7F7015753AFE-C#BA3	R7F7015753AFD-C#BA3
R7F7015753AFE#KA3	R7F7015753AFD#KA3	R7F7015753AFE-C#KA3	R7F7015753AFD-C#KA3
R7F7015754AFE#BA3	R7F7015754AFD#BA3	R7F7015754AFE-C#BA3	R7F7015754AFD-C#BA3
R7F7015754AFE#KA3	R7F7015754AFD#KA3	R7F7015754AFE-C#KA3	R7F7015754AFD-C#KA3
R7F7015773AFE#BA3	R7F7015773AFD#BA3	R7F7015773AFE-C#BA3	R7F7015773AFD-C#BA3
R7F7015773AFE#KA3	R7F7015773AFD#KA3	R7F7015773AFE-C#KA3	R7F7015773AFD-C#KA3
R7F7015774AFE#BA3	R7F7015774AFD#BA3	R7F7015774AFE-C#BA3	R7F7015774AFD-C#BA3
R7F7015774AFE#KA3	R7F7015774AFD#KA3	R7F7015774AFE-C#KA3	R7F7015774AFD-C#KA3
R7F7015823AFE#BA3	R7F7015823AFD#BA3	R7F7015823AFE-C#BA3	R7F7015823AFD-C#BA3
R7F7015823AFE#KA3	R7F7015823AFD#KA3	R7F7015823AFE-C#KA3	R7F7015823AFD-C#KA3
R7F7015824AFE#BA3	R7F7015824AFD#BA3	R7F7015824AFE-C#BA3	R7F7015824AFD-C#BA3
R7F7015824AFE#KA3	R7F7015824AFD#KA3	R7F7015824AFE-C#KA3	R7F7015824AFD-C#KA3
R7F7015833AFE#BA3	R7F7015833AFD#BA3	R7F7015833AFE-C#BA3	R7F7015833AFD-C#BA3
R7F7015833AFE#KA3	R7F7015833AFD#KA3	R7F7015833AFE-C#KA3	R7F7015833AFD-C#KA3
R7F7015834AFE#BA3	R7F7015834AFD#BA3	R7F7015834AFE-C#BA3	R7F7015834AFD-C#BA3

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7015834AFE#KA3	R7F7015834AFD#KA3	R7F7015834AFE-C#KA3	R7F7015834AFD-C#KA3
R7F7015863AFE#BA3	R7F7015863AFD#BA3	R7F7015863AFE-C#BA3	R7F7015863AFD-C#BA3
R7F7015863AFE#KA3	R7F7015863AFD#KA3	R7F7015863AFE-C#KA3	R7F7015863AFD-C#KA3
R7F7015864AFE#BA3	R7F7015864AFD#BA3	R7F7015864AFE-C#BA3	R7F7015864AFD-C#BA3
R7F7015864AFE#KA3	R7F7015864AFD#KA3	R7F7015864AFE-C#KA3	R7F7015864AFD-C#KA3
R7F7015873AFE#BA3	R7F7015873AFD#BA3	R7F7015873AFE-C#BA3	R7F7015873AFD-C#BA3
R7F7015873AFE#KA3	R7F7015873AFD#KA3	R7F7015873AFE-C#KA3	R7F7015873AFD-C#KA3
R7F7015874AFE#BA3	R7F7015874AFD#BA3	R7F7015874AFE-C#BA3	R7F7015874AFD-C#BA3
R7F7015874AFE#KA3	R7F7015874AFD#KA3	R7F7015874AFE-C#KA3	R7F7015874AFD-C#KA3
R7F7015953AFE#BA3	R7F7015953AFD#BA3	R7F7015953AFE-C#BA3	R7F7015953AFD-C#BA3
R7F7015953AFE#KA3	R7F7015953AFD#KA3	R7F7015953AFE-C#KA3	R7F7015953AFD-C#KA3
R7F7015954AFE#BA3	R7F7015954AFD#BA3	R7F7015954AFE-C#BA3	R7F7015954AFD-C#BA3
R7F7015954AFE#KA3	R7F7015954AFD#KA3	R7F7015954AFE-C#KA3	R7F7015954AFD-C#KA3
R7F7015973AFE#BA3	R7F7015973AFD#BA3	R7F7015973AFE-C#BA3	R7F7015973AFD-C#BA3
R7F7015973AFE#KA3	R7F7015973AFD#KA3	R7F7015973AFE-C#KA3	R7F7015973AFD-C#KA3
R7F7015974AFE#BA3	R7F7015974AFD#BA3	R7F7015974AFE-C#BA3	R7F7015974AFD-C#BA3
R7F7015974AFE#KA3	R7F7015974AFD#KA3	R7F7015974AFE-C#KA3	R7F7015974AFD-C#KA3
R7F7016023AFE#BA3	R7F7016023AFD#BA3	R7F7016023AFE-C#BA3	R7F7016023AFD-C#BA3
R7F7016023AFE#KA3	R7F7016023AFD#KA3	R7F7016023AFE-C#KA3	R7F7016023AFD-C#KA3
R7F7016024AFE#BA3	R7F7016024AFD#BA3	R7F7016024AFE-C#BA3	R7F7016024AFD-C#BA3
R7F7016024AFE#KA3	R7F7016024AFD#KA3	R7F7016024AFE-C#KA3	R7F7016024AFD-C#KA3
R7F7016033AFE#BA3	R7F7016033AFD#BA3	R7F7016033AFE-C#BA3	R7F7016033AFD-C#BA3
R7F7016033AFE#KA3	R7F7016033AFD#KA3	R7F7016033AFE-C#KA3	R7F7016033AFD-C#KA3
R7F7016034AFE#BA3	R7F7016034AFD#BA3	R7F7016034AFE-C#BA3	R7F7016034AFD-C#BA3
R7F7016034AFE#KA3	R7F7016034AFD#KA3	R7F7016034AFE-C#KA3	R7F7016034AFD-C#KA3
R7F7016053AFE#BA3	R7F7016053AFD#BA3	R7F7016053AFE-C#BA3	R7F7016053AFD-C#BA3
R7F7016053AFE#KA3	R7F7016053AFD#KA3	R7F7016053AFE-C#KA3	R7F7016053AFD-C#KA3
R7F7016054AFE#BA3	R7F7016054AFD#BA3	R7F7016054AFE-C#BA3	R7F7016054AFD-C#BA3
R7F7016054AFE#KA3	R7F7016054AFD#KA3	R7F7016054AFE-C#KA3	R7F7016054AFD-C#KA3
R7F7016063AFE#BA3	R7F7016063AFD#BA3	R7F7016063AFE-C#BA3	R7F7016063AFD-C#BA3
R7F7016063AFE#KA3	R7F7016063AFD#KA3	R7F7016063AFE-C#KA3	R7F7016063AFD-C#KA3
R7F7016064AFE#BA3	R7F7016064AFD#BA3	R7F7016064AFE-C#BA3	R7F7016064AFD-C#BA3
R7F7016064AFE#KA3	R7F7016064AFD#KA3	R7F7016064AFE-C#KA3	R7F7016064AFD-C#KA3
R7F7016073AFE#BA3	R7F7016073AFD#BA3	R7F7016073AFE-C#BA3	R7F7016073AFD-C#BA3
R7F7016073AFE#KA3	R7F7016073AFD#KA3	R7F7016073AFE-C#KA3	R7F7016073AFD-C#KA3
R7F7016074AFE#BA3	R7F7016074AFD#BA3	R7F7016074AFE-C#BA3	R7F7016074AFD-C#BA3
R7F7016074AFE#KA3	R7F7016074AFD#KA3	R7F7016074AFE-C#KA3	R7F7016074AFD-C#KA3
R7F7016123AFE#BA3	R7F7016123AFD#BA3	R7F7016123AFE-C#BA3	R7F7016123AFD-C#BA3
R7F7016123AFE#KA3	R7F7016123AFD#KA3	R7F7016123AFE-C#KA3	R7F7016123AFD-C#KA3
R7F7016124AFE#BA3	R7F7016124AFD#BA3	R7F7016124AFE-C#BA3	R7F7016124AFD-C#BA3
R7F7016124AFE#KA3	R7F7016124AFD#KA3	R7F7016124AFE-C#KA3	R7F7016124AFD-C#KA3
R7F7016133AFE#BA3	R7F7016133AFD#BA3	R7F7016133AFE-C#BA3	R7F7016133AFD-C#BA3
R7F7016133AFE#KA3	R7F7016133AFD#KA3	R7F7016133AFE-C#KA3	R7F7016133AFD-C#KA3
R7F7016134AFE#BA3	R7F7016134AFD#BA3	R7F7016134AFE-C#BA3	R7F7016134AFD-C#BA3
R7F7016134AFE#KA3	R7F7016134AFD#KA3	R7F7016134AFE-C#KA3	R7F7016134AFD-C#KA3
R7F7016223AFE#BA3	R7F7016223AFD#BA3	R7F7016223AFE-C#BA3	R7F7016223AFD-C#BA3
R7F7016223AFE#KA3	R7F7016223AFD#KA3	R7F7016223AFE-C#KA3	R7F7016223AFD-C#KA3
R7F7016224AFE#BA3	R7F7016224AFD#BA3	R7F7016224AFE-C#BA3	R7F7016224AFD-C#BA3

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F7016224AFE#KA3	R7F7016224AFD#KA3	R7F7016224AFE-C#KA3	R7F7016224AFD-C#KA3
R7F7016233AFE#BA3	R7F7016233AFD#BA3	R7F7016233AFE-C#BA3	R7F7016233AFD-C#BA3
R7F7016233AFE#KA3	R7F7016233AFD#KA3	R7F7016233AFE-C#KA3	R7F7016233AFD-C#KA3
R7F7016234AFE#BA3	R7F7016234AFD#BA3	R7F7016234AFE-C#BA3	R7F7016234AFD-C#BA3
R7F7016234AFE#KA3	R7F7016234AFD#KA3	R7F7016234AFE-C#KA3	R7F7016234AFD-C#KA3
R7F7015603AFE#BA3	R7F7015603AFD#BA3	R7F7015603AFE-C#BA3	R7F7015603AFD-C#BA3
R7F7015603AFE#KA3	R7F7015603AFD#KA3	R7F7015603AFE-C#KA3	R7F7015603AFD-C#KA3
R7F7015604AFE#BA3	R7F7015604AFD#BA3	R7F7015604AFE-C#BA3	R7F7015604AFD-C#BA3
R7F7015604AFE#KA3	R7F7015604AFD#KA3	R7F7015604AFE-C#KA3	R7F7015604AFD-C#KA3
R7F7015613AFE#BA3	R7F7015613AFD#BA3	R7F7015613AFE-C#BA3	R7F7015613AFD-C#BA3
R7F7015613AFE#KA3	R7F7015613AFD#KA3	R7F7015613AFE-C#KA3	R7F7015613AFD-C#KA3
R7F7015614AFE#BA3	R7F7015614AFD#BA3	R7F7015614AFE-C#BA3	R7F7015614AFD-C#BA3
R7F7015614AFE#KA3	R7F7015614AFD#KA3	R7F7015614AFE-C#KA3	R7F7015614AFD-C#KA3
R7F7015803AFE#BA3	R7F7015803AFD#BA3	R7F7015803AFE-C#BA3	R7F7015803AFD-C#BA3
R7F7015803AFE#KA3	R7F7015803AFD#KA3	R7F7015803AFE-C#KA3	R7F7015803AFD-C#KA3
R7F7015804AFE#BA3	R7F7015804AFD#BA3	R7F7015804AFE-C#BA3	R7F7015804AFD-C#BA3
R7F7015804AFE#KA3	R7F7015804AFD#KA3	R7F7015804AFE-C#KA3	R7F7015804AFD-C#KA3
R7F7015813AFE#BA3	R7F7015813AFD#BA3	R7F7015813AFE-C#BA3	R7F7015813AFD-C#BA3
R7F7015813AFE#KA3	R7F7015813AFD#KA3	R7F7015813AFE-C#KA3	R7F7015813AFD-C#KA3
R7F7015814AFE#BA3	R7F7015814AFD#BA3	R7F7015814AFE-C#BA3	R7F7015814AFD-C#BA3
R7F7015814AFE#KA3	R7F7015814AFD#KA3	R7F7015814AFE-C#KA3	R7F7015814AFD-C#KA3
R7F7016103AFE#BA3	R7F7016103AFD#BA3	R7F7016103AFE-C#BA3	R7F7016103AFD-C#BA3
R7F7016103AFE#KA3	R7F7016103AFD#KA3	R7F7016103AFE-C#KA3	R7F7016103AFD-C#KA3
R7F7016104AFE#BA3	R7F7016104AFD#BA3	R7F7016104AFE-C#BA3	R7F7016104AFD-C#BA3
R7F7016104AFE#KA3	R7F7016104AFD#KA3	R7F7016104AFE-C#KA3	R7F7016104AFD-C#KA3
R7F7016113AFE#BA3	R7F7016113AFD#BA3	R7F7016113AFE-C#BA3	R7F7016113AFD-C#BA3
R7F7016113AFE#KA3	R7F7016113AFD#KA3	R7F7016113AFE-C#KA3	R7F7016113AFD-C#KA3
R7F7016114AFE#BA3	R7F7016114AFD#BA3	R7F7016114AFE-C#BA3	R7F7016114AFD-C#BA3
R7F7016114AFE#KA3	R7F7016114AFD#KA3	R7F7016114AFE-C#KA3	R7F7016114AFD-C#KA3
R7F7016203AFE#BA3	R7F7016203AFD#BA3	R7F7016203AFE-C#BA3	R7F7016203AFD-C#BA3
R7F7016203AFE#KA3	R7F7016203AFD#KA3	R7F7016203AFE-C#KA3	R7F7016203AFD-C#KA3
R7F7016204AFE#BA3	R7F7016204AFD#BA3	R7F7016204AFE-C#BA3	R7F7016204AFD-C#BA3
R7F7016204AFE#KA3	R7F7016204AFD#KA3	R7F7016204AFE-C#KA3	R7F7016204AFD-C#KA3
R7F7016213AFE#BA3	R7F7016213AFD#BA3	R7F7016213AFE-C#BA3	R7F7016213AFD-C#BA3
R7F7016213AFE#KA3	R7F7016213AFD#KA3	R7F7016213AFE-C#KA3	R7F7016213AFD-C#KA3
R7F7016214AFE#BA3	R7F7016214AFD#BA3	R7F7016214AFE-C#BA3	R7F7016214AFD-C#BA3
R7F7016214AFE#KA3	R7F7016214AFD#KA3	R7F7016214AFE-C#KA3	R7F7016214AFD-C#KA3

D1L1, D1L2 series

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F701401EAFE#BA0	R7F701401EAFD#BA0	R7F701401EAFE-C#BA1	R7F701401EAFD-C#BA1
R7F701401EAFE#KA0	R7F701401EAFD#KA0	R7F701401EAFE-C#KA1	R7F701401EAFD-C#KA1
R7F701421EAFE#BA0	R7F701421EAFD#BA0	R7F701421EAFE-C#BA1	R7F701421EAFD-C#BA1
R7F701421EAFE#KA0	R7F701421EAFD#KA0	R7F701421EAFE-C#KA1	R7F701421EAFD-C#KA1
R7F701402EAFE#BA0	R7F701402EAFD#BA0	R7F701402EAFE-C#BA1	R7F701402EAFD-C#BA1
R7F701402EAFE#KA0	R7F701402EAFD#KA0	R7F701402EAFE-C#KA1	R7F701402EAFD-C#KA1

Current		After Change	
ASE-KH	ATJ-Kumamoto	ASE-KH	ATJ-Kumamoto
R7F701403EAFE#BA0	R7F701403EAFD#BA0	R7F701403EAFE-C#BA1	R7F701403EAFD-C#BA1
R7F701403EAFE#KA0	R7F701403EAFD#KA0	R7F701403EAFE-C#KA1	R7F701403EAFD-C#KA1
R7F701422EAFE#BA0	R7F701422EAFD#BA0	R7F701422EAFE-C#BA1	R7F701422EAFD-C#BA1
R7F701422EAFE#KA0	R7F701422EAFD#KA0	R7F701422EAFE-C#KA1	R7F701422EAFD-C#KA1
R7F701423EAFE#BA0	R7F701423EAFD#BA0	R7F701423EAFE-C#BA1	R7F701423EAFD-C#BA1
R7F701423EAFE#KA0	R7F701423EAFD#KA0	R7F701423EAFE-C#KA1	R7F701423EAFD-C#KA1

D1S1-V2 series

Current	After Change	
ASE-KH	ASE-KH	ATJ-Kumamoto
R7F701416EAFE#BA0	R7F701416EAFE-C#BA0	R7F701416EAFD-C#BA0
R7F701416EAFE#KA0	R7F701416EAFE-C#KA0	R7F701416EAFD-C#KA0
R7F701417EAFE#BA0	R7F701417EAFE-C#BA0	R7F701417EAFD-C#BA0
R7F701417EAFE#KA0	R7F701417EAFE-C#KA0	R7F701417EAFD-C#KA0
R7F701436EAFE#BA0	R7F701436EAFE-C#BA0	R7F701436EAFD-C#BA0
R7F701436EAFE#KA0	R7F701436EAFE-C#KA0	R7F701436EAFD-C#KA0
R7F701437EAFE#BA0	R7F701437EAFE-C#BA0	R7F701437EAFD-C#BA0
R7F701437EAFE#KA0	R7F701437EAFE-C#KA0	R7F701437EAFD-C#KA0

F1KM series

Current	After Change	
RSC	ASE-KH	ATJ-Kumamoto
R7F7016843AFP-C#BA1	R7F7016843AFE-C#BA1	R7F7016843AFD-C#BA1
R7F7016843AFP-C#KA1	R7F7016843AFE-C#KA1	R7F7016843AFD-C#KA1
R7F7016844AFP-C#BA1	R7F7016844AFE-C#BA1	R7F7016844AFD-C#BA1
R7F7016844AFP-C#KA1	R7F7016844AFE-C#KA1	R7F7016844AFD-C#KA1
R7F7016853AFP-C#BA1	R7F7016853AFE-C#BA1	R7F7016853AFD-C#BA1
R7F7016853AFP-C#KA1	R7F7016853AFE-C#KA1	R7F7016853AFD-C#KA1
R7F7016854AFP-C#BA1	R7F7016854AFE-C#BA1	R7F7016854AFD-C#BA1
R7F7016854AFP-C#KA1	R7F7016854AFE-C#KA1	R7F7016854AFD-C#KA1
R7F7016863AFP-C#BA1	R7F7016863AFE-C#BA1	R7F7016863AFD-C#BA1
R7F7016863AFP-C#KA1	R7F7016863AFE-C#KA1	R7F7016863AFD-C#KA1
R7F7016864AFP-C#BA1	R7F7016864AFE-C#BA1	R7F7016864AFD-C#BA1
R7F7016864AFP-C#KA1	R7F7016864AFE-C#KA1	R7F7016864AFD-C#KA1
R7F7016463AFP-C#BA1	R7F7016463AFE-C#BA1	R7F7016463AFD-C#BA1
R7F7016463AFP-C#KA1	R7F7016463AFE-C#KA1	R7F7016463AFD-C#KA1
R7F7016473AFP-C#BA1	R7F7016473AFE-C#BA1	R7F7016473AFD-C#BA1
R7F7016473AFP-C#KA1	R7F7016473AFE-C#KA1	R7F7016473AFD-C#KA1
R7F7016483AFP-C#BA1	R7F7016483AFE-C#BA1	R7F7016483AFD-C#BA1
R7F7016483AFP-C#KA1	R7F7016483AFE-C#KA1	R7F7016483AFD-C#KA1
R7F7016493AFP-C#BA1	R7F7016493AFE-C#BA1	R7F7016493AFD-C#BA1
R7F7016493AFP-C#KA1	R7F7016493AFE-C#KA1	R7F7016493AFD-C#KA1
R7F7016443AFP-C#BA1	R7F7016443AFE-C#BA1	R7F7016443AFD-C#BA1
R7F7016443AFP-C#KA1	R7F7016443AFE-C#KA1	R7F7016443AFD-C#KA1
R7F7016453AFP-C#BA1	R7F7016453AFE-C#BA1	R7F7016453AFD-C#BA1
R7F7016453AFP-C#KA1	R7F7016453AFE-C#KA1	R7F7016453AFD-C#KA1

変更内容一覧

F1L,F1M,F1H,F1K,D1L1,D1L2 シリーズ

		Auワイヤ(変更前)	Cuワイヤ(変更後)	備考
製造 拠点	ウエハプロセス	変更無し		生産フロー参照
	ウエハテスト	変更無し		
	バックグラインド	ATJ熊本追加		
	組立	変更無し		
	ファイナルテスト	TPJ追加 *1		
材料	PAD開口(μm)	50um	55um	D1L1/D1L2のみ
	ワイヤボンディング材	Auワイヤ	Cuワイヤ	*2
	モールド樹脂材	Au用樹脂	Cu用樹脂	
	ダイアタッチ材	変更無し		

D1S1-V2 シリーズ

		Auワイヤ(変更前)	Cuワイヤ(変更後)	備考
製造 拠点	ウエハプロセス	変更無し		生産フロー参照
	ウエハテスト	変更無し		
	バックグラインド	ATJ熊本/ATJ白杵追加		
	組立	ATJ熊本追加		
	ファイナルテスト	TPJ追加 *1		
材料	PAD開口(μm)	変更無し		
	ワイヤボンディング材	Auワイヤ	Cuワイヤ	*2
	モールド樹脂材	Au用樹脂	Cu用樹脂	
	ダイアタッチ材	ASE-KH標準材	ASE-KH/ATJ熊本標準材	

F1KM シリーズ

		Cuワイヤ(変更前)	Cuワイヤ(変更後)	備考
製造 拠点	ウエハプロセス	変更無し		生産フロー参照
	ウエハテスト	変更無し		
	バックグラインド	ASE-KH/ATJ熊本/ATJ白杵追加		
	組立	ASE-KH/ATJ熊本追加		
	ファイナルテスト	TPW/TPJ追加 *1		
材料	PAD開口(μm)	変更無し		
	ワイヤボンディング材	変更無し		
	モールド樹脂材	RSC標準材	ASE-KH/ATJ熊本標準材	
	ダイアタッチ材	RSC標準材	ASE-KH/ATJ熊本標準材	

*1 TPJ 追加の対象は ATJ 熊本組立品のみに なります。

*2 Cu ワイヤ径は ASE-KH : φ20um ATJ 熊本 : φ18um となります。

ATJ 熊本: Amkor Technology Japan, Inc. Kumamoto

ATJ 白杵: Amkor Technology Japan, Inc. Usuki

TPW: TeraPower Technology Inc.

TPJ: Tera Probe, Inc. Kyushu Operation Center

ASE-KH: Advanced Semiconductor Engineering Inc. Kaohsiung

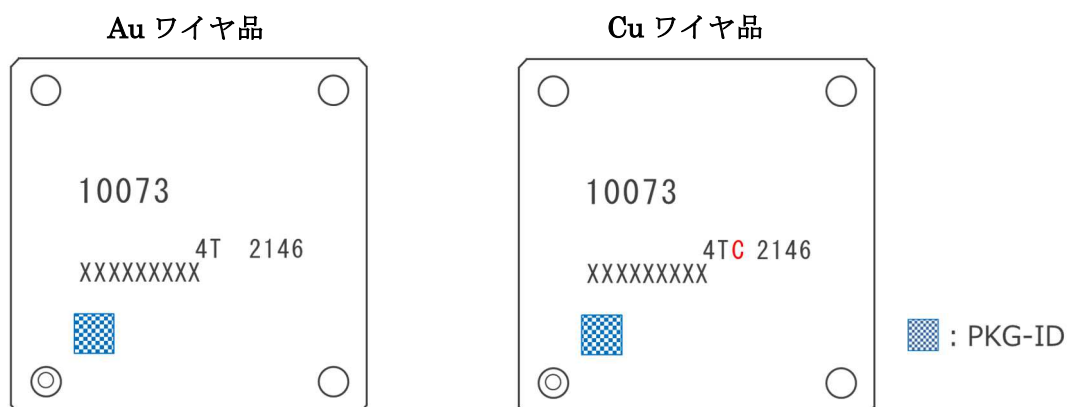
Cu ワイヤ品識別方法

現品マークでの Cu ワイヤ品識別方法

マーク仕様例：ATJ 熊本品, F1L-2M 176pin

R7F7010073AFD#BA4(Au ワイヤ品)と R7F7010073AFD-**C**#BA4(Cu ワイヤ品)の比較

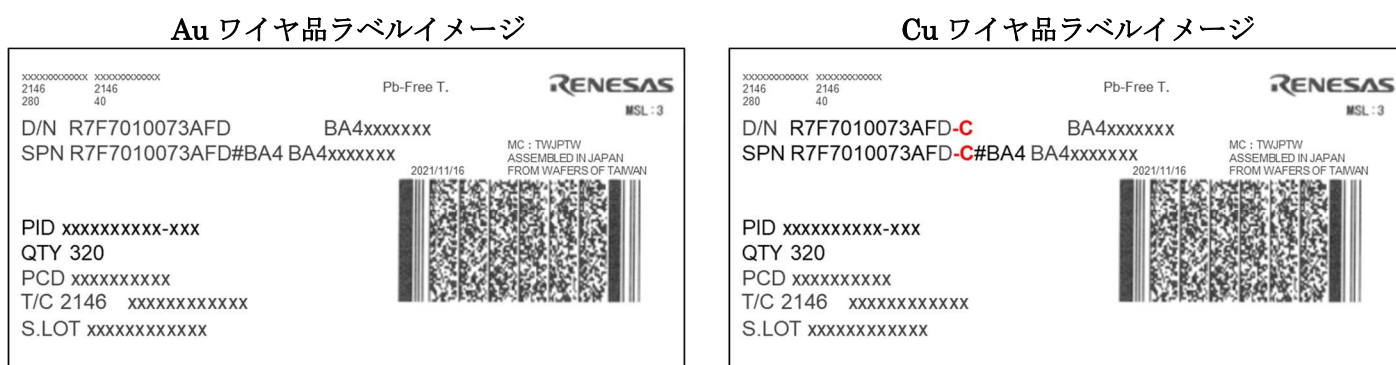
Cu ワイヤ品のレーザーマークは、印字の一部に「**C**」が追加となります(赤字部分)



ラベルでの Cu ワイヤ品識別方法

ラベル印字例：ATJ 熊本品, F1L-2M 176pin

R7F7010073AFD#BA4(Au ワイヤ品)と R7F7010073AFD-**C**#BA4 (Cu ワイヤ品)の比較

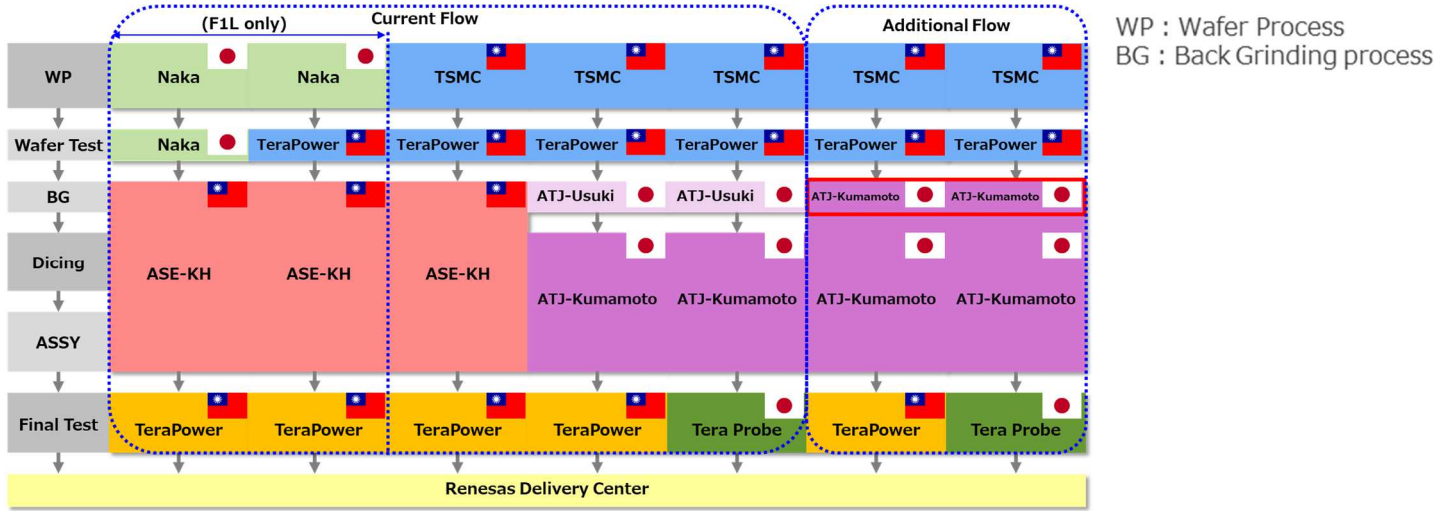


赤字の部分が異なります。

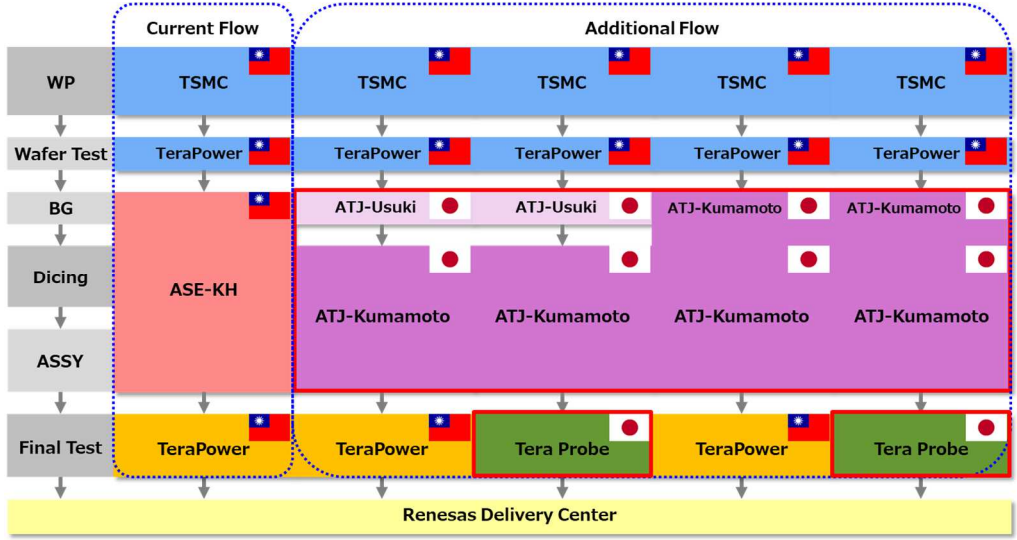
生産フロー

Additional sites

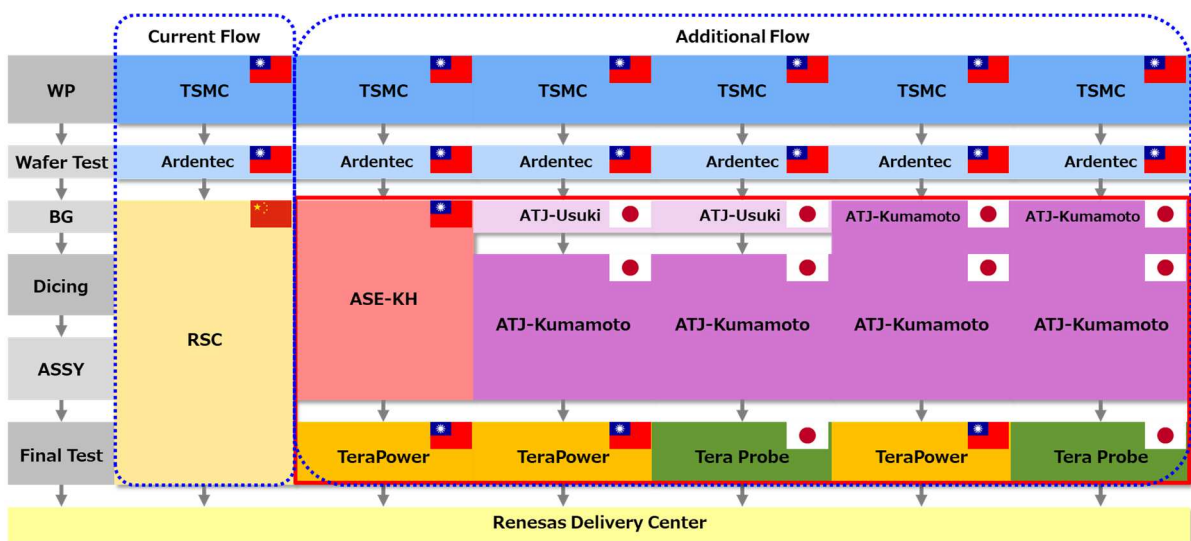
RH850/F1L, F1M, F1H, F1K, D1L1, D1L2 シリーズ



RH850/D1S1-V2 シリーズ



RH850/F1KM シリーズ



RSC : Renesas Semiconductor(Suzhou) Co. Ltd.