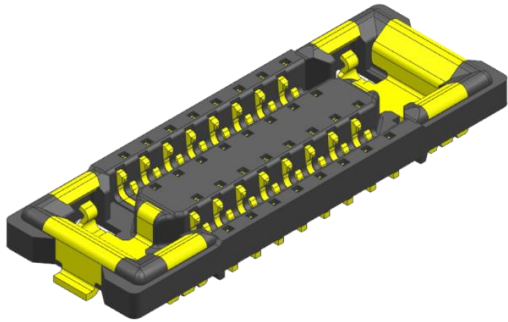
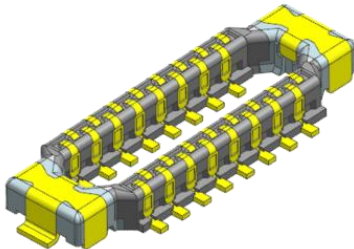


**Quad Row**  
**Board to Board**  
**CONNECTOR SYSTEM**

Receptacle	Plug
	
Series: 203389	Series: 203390

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CHANGE NO.	723243								
REVISED BY	AISHII	DATE	2022/10/05	DOC TYPE	DOC TYPE DESCRIPTION		DOC PART	SERIES	
REV APPR BY	KSASAKI	DATE	2022/10/19	PS	ENGINEERING SPECIFICATION WORD		000	203389	
INITIAL RELEASE				CUSTOMER		DOCUMENT NUMBER		REVISION	SHEET
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## 1. 主題

## SUBJECT:

“0.175mm ピッチ 基板対基板用 コネクタ” の取り扱いについて規定する。

This product specification covers handling of the “0.175mm PITCH BOARD TO BOARD” connector system.

## 2. 製品について

## PRODUCTS:

## 2.1 製品:

## PRODUCTS:

SERIES	DESCRIPTION
2033890**1 2033890**3	Embossed Tape Package of Receptacle Assembly
2033900**1 2033900**3	Embossed Tape Package of Plug Assembly

## 2.2 注記

## Notes

この取扱説明書はプラグ側がFPC、リセプタクル（以下リセ）側が基板（硬質基板）に実装された場合を想定して作成していますが、プラグ側が基板（硬質基板）、リセ側がFPCの場合にも適用します。

リセは変形しやすいばね端子を内蔵しておりますので、FPCに実装する場合は、特に抜去作業にご注意ください。

This specification is issued based on the supposition that the plug is mounted on FPC and the receptacle is mounted on PWB (Hard PWB).

In the case of the plug is mounted on PWB (Hard PWB) and the receptacle is mounted on FPC is also covered. Receptacle contains formable terminal. So please pay attention to un-mating process of connectors if you mount Receptacle on FPC.

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## 3. 回路設計に関して:

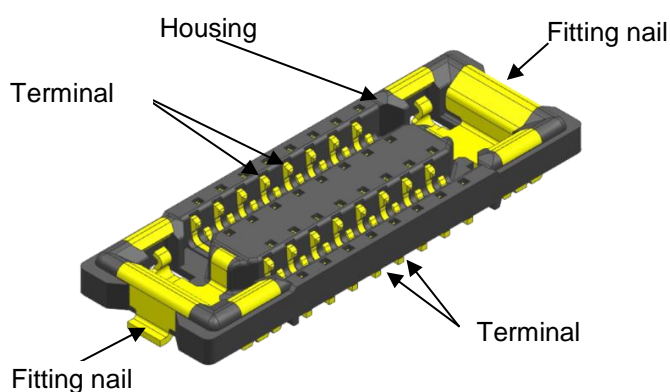
## DESIGNING WIRING:

## 3.1 コネクタの定格電流に関して:

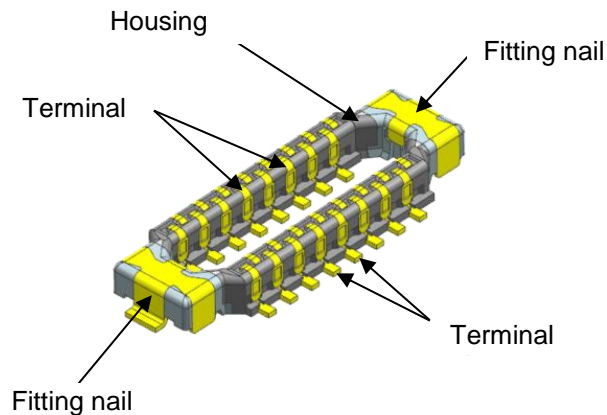
## CURRENT RATE OF CONNECTOR:

## 3.1.1. コネクタ構造

## CONNECTOR STRUCTURE



リセプタクル Receptacle  
PN: 2033890\*\*1  
2033890\*\*3



プラグ Plug  
PN: 2033900\*\*1  
2033900\*\*3

## 3.1.2. 定格電流に関して

## CURRENT RATE

コネクタの定格電流に関しては製品仕様書 2033890000-PSを確認ください。

Regarding the spec of current rating of this product, please confirm the product specification document "2033890000-PS".

## 3.2 電源回路の設計時の注意点:

## NOTES OF CAUTION ABOUT WIRTING OF POWER CIRCUIT:

3.2.1. 本コネクタを搭載する基板(PWB/FPC)において、過度な温度上昇を避ける為、適切なパターンデザインを行ってください。

To prevent excessive temperature increase, please make appropriate circuit design for PWB/FPC on which the connectors mount.

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#### 4. 実装に関して SMT PROCESS

##### 4.1 基板(PWB/FPC)の状態に関して: PWB/FPC CONDITION

- 4.1.1. 基板の反りはコネクタ両端部を基準とし、コネクタ中央部にて Max0.02mm としてください。  
The warpage of PWB should be a maximum of 0.02mm if measuring from one connector edge to the other.
- 4.1.2. FPC に実装する場合は、基板の変形を防止するため、補強板のご使用をお勧めします。FR-4 0.5mm 厚以上、SUS 0.3mm 厚以上、もしくはそれ同等以上の強度を有する補強板の使用をお勧めします。  
Recommend to place any stiffener board or film on the backside of FPC when you mount the connector to prevent deformation. Recommended material and thickness of stiffener board is FR-4 T $\geq$ 0.5mm, SUS T $\geq$ 0.3mm or more stronger.

##### 4.2 実装条件に関して: SOLDERING CONDITION:

- 4.2.1. 半田耐熱性のリフロー条件に関しては製品仕様書 2033890000-PSを確認ください。  
Regarding the reflow condition for resistance to soldering heat, please confirm the product specification document "2033890000-PS".
- 4.2.2. 推奨ランド寸法 及び 推奨メタルマスクに関しては製品図面 2033891000-SD / 2033901000-SD、製品仕様書 2033890000-PS に記載していますが、リフロー装置及び基板などにより条件が異なりますので事前に実装評価(リフロー評価)の御確認を御願い致します。  
Recommended PWB layout and stencil is written in the drawing "2033891000-SD" / "2033901000-SD" and the product specification document "2033890000-PS".  
However, please check the mount condition (reflow soldering condition) by your own devices beforehand, because the condition changes by the soldering devices, PWB, and so on.

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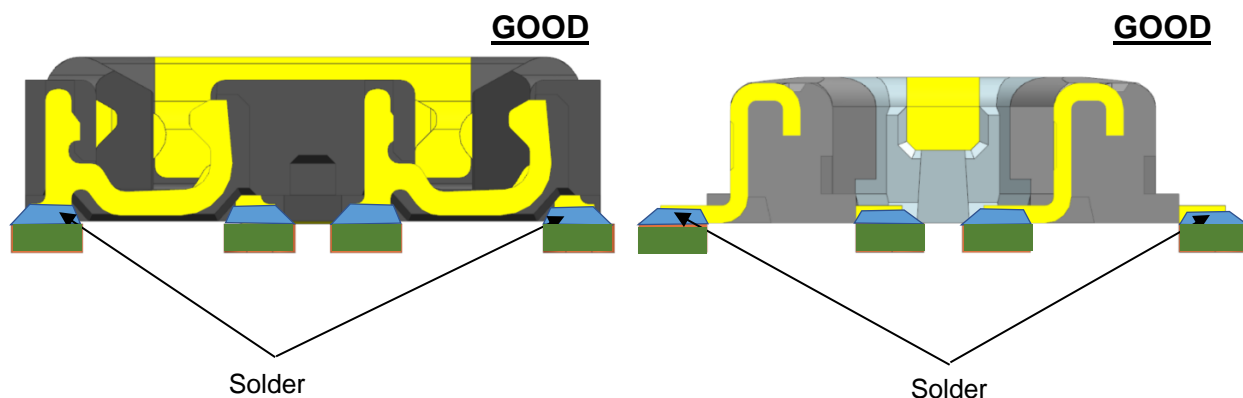
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## 4.3 実装時の注意点

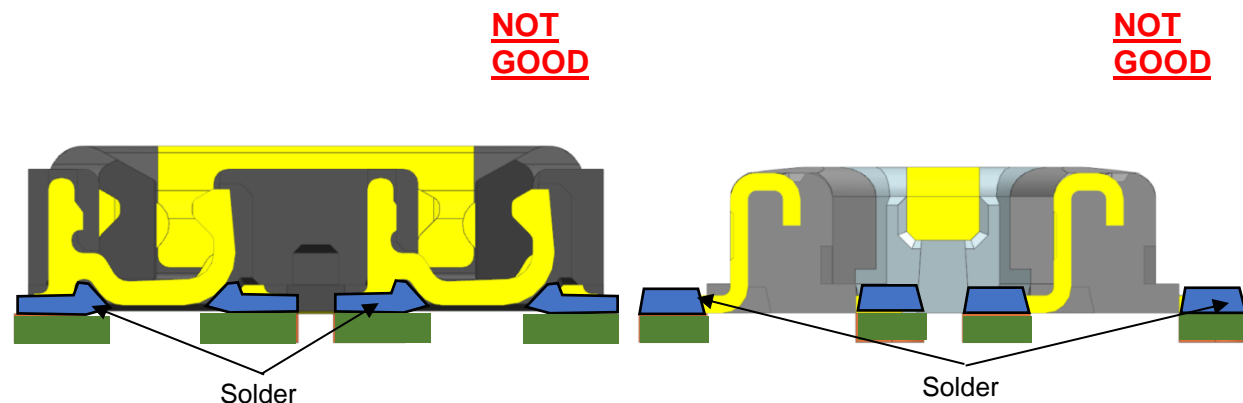
## NOTES OF CAUTION ABOUT SMT

- 4-3-1. ランド形状が弊社推奨寸法よりもコネクタ底面側に広い場合、コネクタの半田付け部以外に半田が付着し、製品性能が低下する可能性があります。弊社推奨ランド形状と異なる場合は、下図のように半田付け部以外に半田が付着しないように設定してください。

If the layout of PWB and solder paste is not same to molex recommendation, especially the pad extends to the direction under the connector, there is higher risk to significant performance degradation of connector by soldered the outside the zone of solder tail. In case of tracing the individual layout not same to molex recommendation, please design not to solder the outside the zone of solder tail.



推奨基板での半田付け状態イメージ  
Soldering image on recommended PWB



推奨外基板での半田付け状態イメージ  
Soldering image on non-recommended PWB

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**5. 嵌合に関して  
MATING OPERATION**

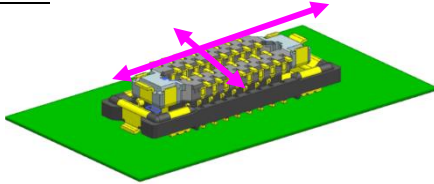
**5.1 嵌合方法(挿入方法)**

**HOW TO MATE (INSERTION)**

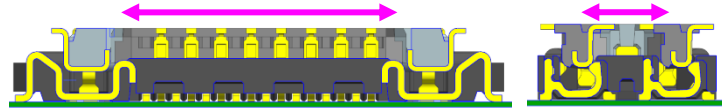
嵌合時(挿入時)は正しく位置合わせを行ってください。正しく位置合わせすると、基板間が約 0.8mm になります。  
その後、プラグ側をリセ側と平行に保ったまま挿入して頂けます様、宜しくお願い致します。

After positioning correctly for mating, then the distance between PWB and FPC is around 0.8mm, insert the plug to the receptacle in parallel with each other.

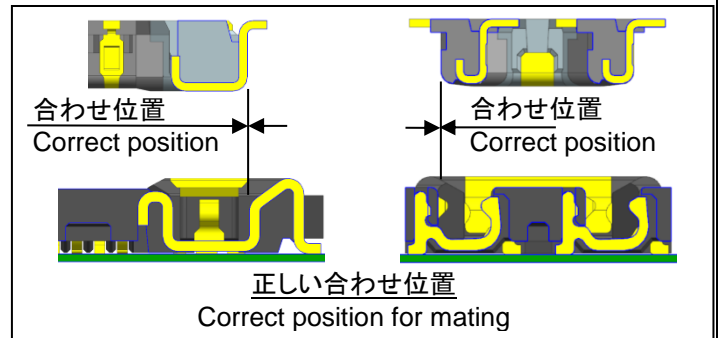
**STEP 1**



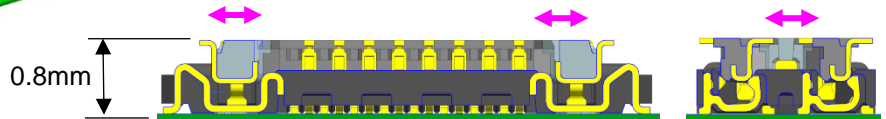
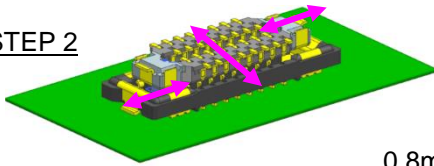
正しい位置合わせは右図の様に、  
リセ外壁とプラグ外壁で行ってください。  
Please find correct position  
at outside wall of receptacle  
and outside wall of plug.



プラグ側をリセ側と平行にして位置合わせをしてください。  
Positioning the plug correctly in parallel with the receptacle.

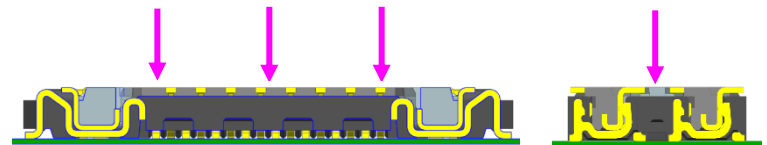
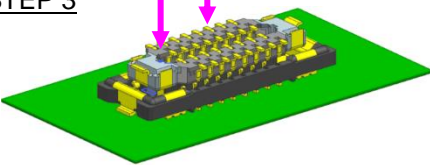


**STEP 2**

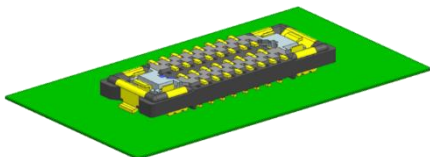


プラグ側を軽く動かし、位置合わせが正しいか確認してください。  
Position the plug correct by adjusting back or forth.

**STEP 3**



**STEP 4**



プラグ側をリセ側と平行に押し込んでください。  
Insert the plug in parallel with the receptacle until fully seated.

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5.2 嵌合時位置合わせ方法 (平行な位置合わせが困難な場合)

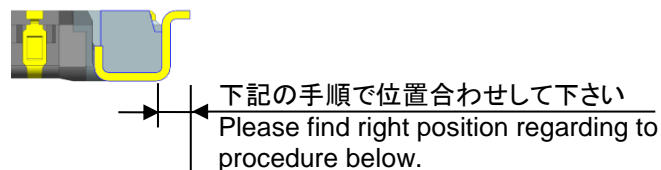
MATING POSITIONING WITH SLIGHTLY INCLINED

5.2.1. 長手方向に自由度がある場合

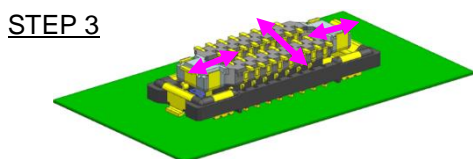
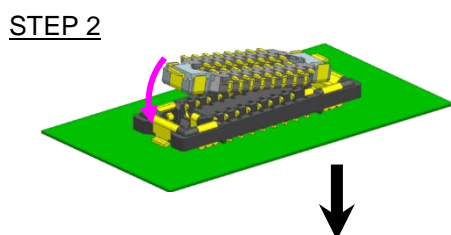
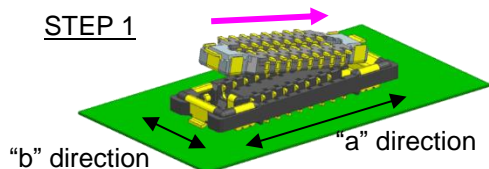
When operated in "a" direction (pitch direction)



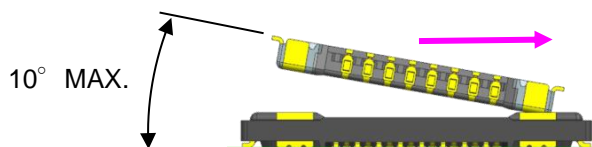
短手方向 "b" direction (width direction)



長手方向 "a" direction (pitch direction)

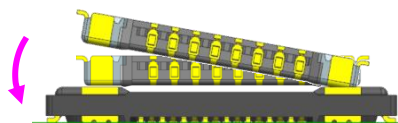


Please back to the STEP3  
in sheet 7



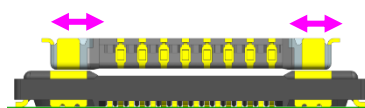
嵌合時の位置合わせは、プラグ側を少し傾けて (10° 以下) 行ってください。

Position for mating by inclining the plug to the receptacle approximately less than 10° .



位置合わせを行った後、プラグ側とリセ側を 平行にしてください。

Once the plug is positioned over the receptacle, move it to the parallel position.



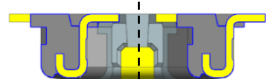
プラグ側を軽く動かし、位置合わせが正しいか確認してください。

Position the plug correct by adjusting back or forth.

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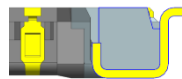
5.2.2. 短手方向に自由度がある場合  
When operated in "b" direction (width direction)



下記の手順で位置合わせして下さい  
Please find right position regarding to procedure below.



短手方向 "b" direction (width direction)

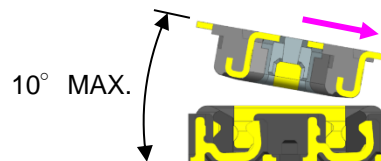
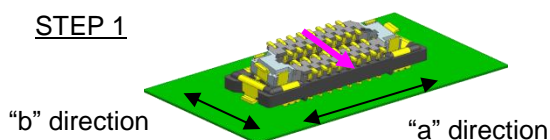


0.4mm 以内に保持してください  
Please keep it within 0.4mm.



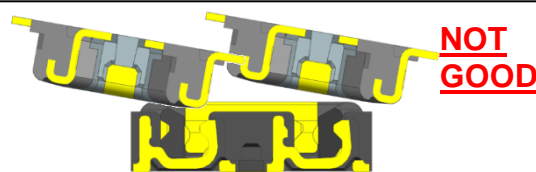
長手方向 "a" direction (pitch direction)

**STEP 1**



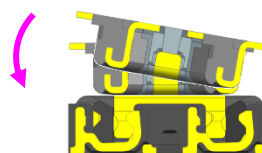
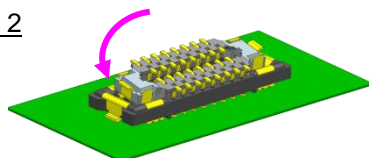
10° MAX.

嵌合時の位置合わせは、プラグ側を少し傾けて  
(10° 以下) 行ってください。  
Position for mating by inclining the plug to the  
receptacle approximately less than 10° .

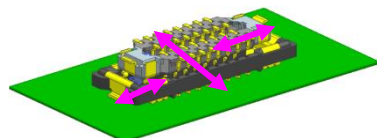


注) 位置合わせが大きくズレない様、ご注意ください。  
Notes) Pay attentions not to have the wrong position  
in "b" direction.

**STEP 2**



**STEP 3**



位置合わせを行った後、リセ側とプラグ側を平行にして  
ください。  
Once the plug is positioned over the receptacle,  
move it to the parallel position.

Please back to the STEP  
3 in sheet 7.

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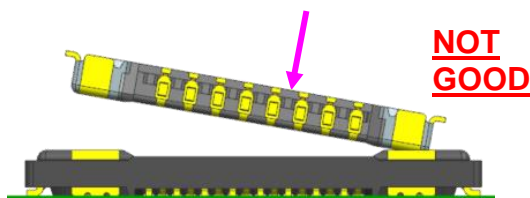
## 5.3 嵌合時 取扱注意点

## CONNECTOR HANDLING WHEN MATING

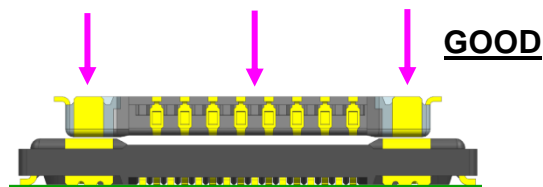
コネクタ同士は平行にして嵌合してください。コネクタ同士を平行に嵌合せず、斜めにしたまま嵌合すると、ハウジング同士が干渉し、ハウジングが破損する恐れがあります。

または、不完全嵌合による不導通の恐れがあります。

Please **DO NOT** apply force while mating the receptacle or plug at an angle in the “a” direction (pitch direction). It may cause damage to the connector. Or it may cause disconnect to the incomplete mating condition.



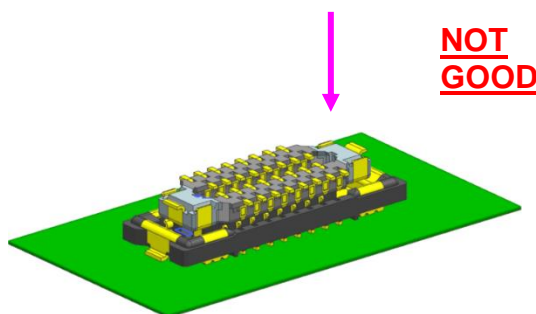
コネクタ斜め嵌合  
Mating with angle (Wrong Handling)



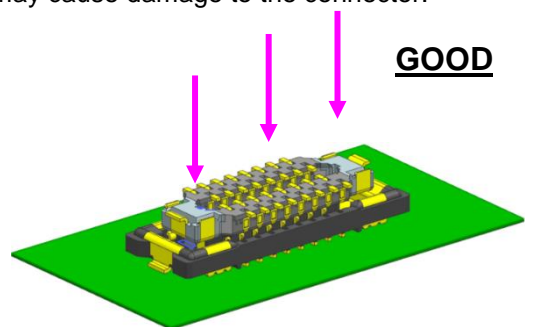
コネクタ平行嵌合  
Mating with Parallel (Correct Handling)

当該製品は既存製品に比べ小型化した製品であり、コネクタ単体の強度（ハウジング強度）は低下しています。嵌合（挿入）の際は、コネクタ端部片側のみの押し込みではなく、全体を平行に押し込んで頂けます様、お願い致します。FPC 補強板の強度が十分でない場合、コネクタ端部のみを押し込むと、コネクタが割れる可能性があります。

This product is downsized comparing with the current products and needs to be handled more carefully. When mating (inserting), **DO NOT** push the only end of connector but the whole connector in parallel with the plug. When pushed only the end of connector, it may cause damage to the connector.



コネクタ端部だけの押し込み  
Pushing Only End (Wrong Handling)



コネクタ全体 平行押し込み  
Pushing Whole Paralleled (Correct Handling)

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CHANGE NO.	723243			DOC TYPE	DOC TYPE DESCRIPTION		DOC PART	SERIES
REVISED BY	AISHII	DATE	2022/10/05	PS	ENGINEERING SPECIFICATION WORD		000	203389
REV APPR BY	KSASAKI	DATE	2022/10/19	CUSTOMER		DOCUMENT NUMBER	REVISION	SHEET
INITIAL RELEASE			GENERAL		2033890000-AS		D	10 OF 14
INITIAL DRWN	DGONDO	DATE	2020/06/19					
INITIAL APPR	YKOBAYASHI02	DATE	2020/07/07					

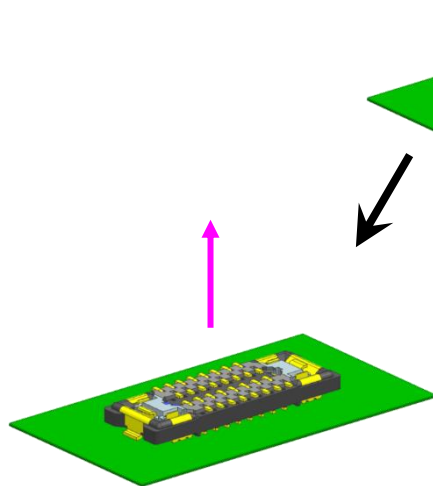
## 6. 抜去に関して UN-MATING OPERATION

### 6.1 抜去方法

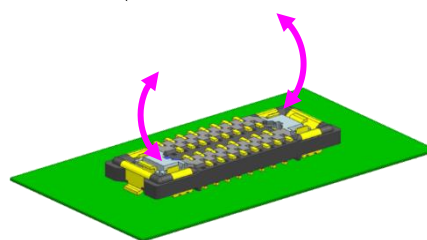
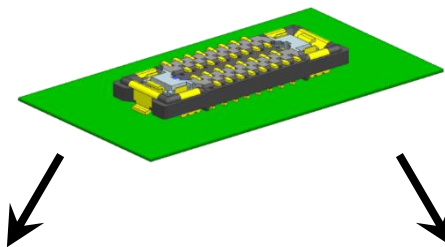
#### HOW TO WITHDRAW

極力嵌合軸に沿って平行に抜去して頂くか、左右に少しずつ振りながら抜去して頂けます様、  
宜しくお願い致します。

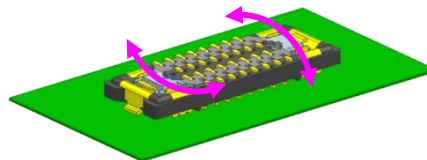
The receptacle shall be released from the plug paralleled to the mated axis or by moving the plug slowly.



嵌合軸に沿って平行に抜く  
Releasing the receptacle paralleled to the mated axis.



左右に少しずつ振りながら抜く(長手方向)  
Releasing the receptacle by moving slowly in "a"  
direction. (pitch direction)



左右に少しずつ振りながら抜く(短手方向)  
Releasing the receptacle by moving slowly in "b"  
direction. (width direction)

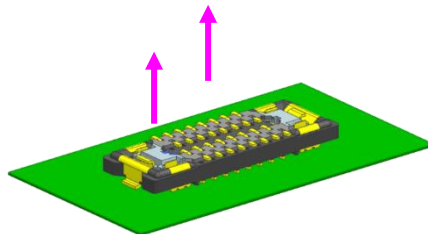
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INITIAL APPR	YKOBAYASHI02	DATE	2020/07/07						

## 6.2 抜去時 取扱注意点

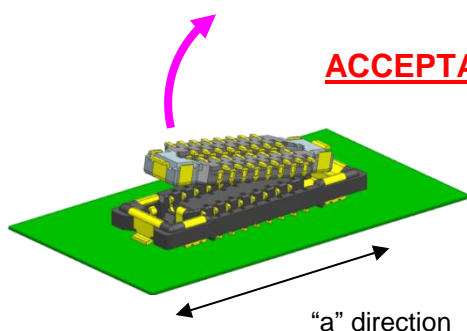
## CONNECTOR HANDLING WHEN WITHDRAWING

当該製品は既存製品に比べ小型化されている製品であり、コネクタ単体の強度（ハウジング強度）は低下しています。抜去の際に、過度のこじり抜去（斜め抜去）を行うとコネクタが破壊する可能性があります。This product is downsized comparing with the current products and needs to be handled more carefully. When un-mating (withdrawing), **DO NOT** twist the receptacle to release. It may cause damage to the connector.

**GOOD**

平行抜去

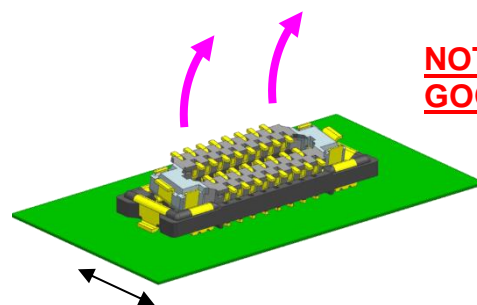
Releasing the receptacle paralleled to the mated axis.

**ACCEPTABLE**

“a” direction

長手方向の斜め抜去

Slant releasing in “a” direction. (pitch direction)

**NOT GOOD**

“b” direction

短手方向の斜め抜去

Slant releasing in “b” direction. (width direction)

尚、長手方向の斜め抜去と短手方向の斜め抜去では以下のメリット・デメリットがあります。  
Merit and demerit for slant releasing are below.

	長手方向斜め抜去 Slant releasing in “a” direction (pitch direction)	短手方向斜め抜去 Slant releasing in “b” direction (width direction)
メリット Merit	<ul style="list-style-type: none"> <li>端子変形が起きにくい Not easily cause the damage to the terminals.</li> <li>多極の場合、低い抜去力で抜去できる High pin count connector can be released with low withdrawal force.</li> </ul>	<ul style="list-style-type: none"> <li>特にありません None</li> </ul>
デメリット Demerit	<ul style="list-style-type: none"> <li>多極の場合、コネクタが折れる可能性がある High pin count connector can be damaged in its plug.</li> </ul>	<ul style="list-style-type: none"> <li>端子捲れが発生する可能性がある。 The terminals on the receptacle can be damaged.</li> <li>端子が変形し不導通になる可能性がある The continuity defect can be caused by the damage to the terminals.</li> <li>ハウジングが割れる可能性がある。 The housing can be damaged.</li> </ul>

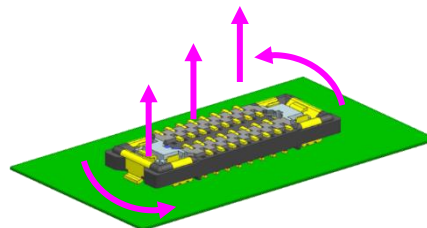
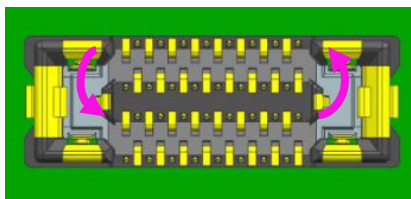
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また、抜去の際に、コネクタが回転された状態で行うとコネクタが破壊する可能性があります。  
And then, when un-mating (withdrawing), **DO NOT** maintain rotational state the connector to release.  
It may cause damage to the connector.

**NOT GOOD**

Maintain rotational state the connector to release



**NOT  
GOOD**

コネクタ回転状態での抜去

Releasing the connector paralleled to the mated axis  
with connector rotational state.

尚、コネクタ回転状態での抜去では以下のメリット・デメリットがあります。

Merit and demerit for above releasing are below.

	コネクタ回転状態での抜去 Releasing the connector paralleled to the mated axis with connector rotational state.
メリット Merit	・ 特にありません None
デメリット Demerit	<ul style="list-style-type: none"> <li>・ 端子捲れが発生する可能性がある。 The terminals on the receptacle can be damaged.</li> <li>・ 端子が変形し不導通になる可能性がある The continuity defect can be caused by the damage to the terminals.</li> <li>・ハウジングが割れる可能性がある。 The housing can be damaged.</li> </ul>

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