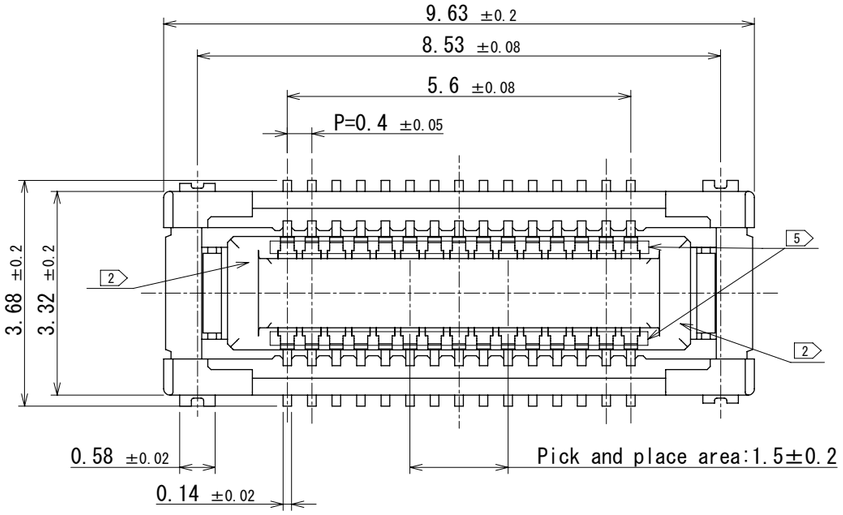
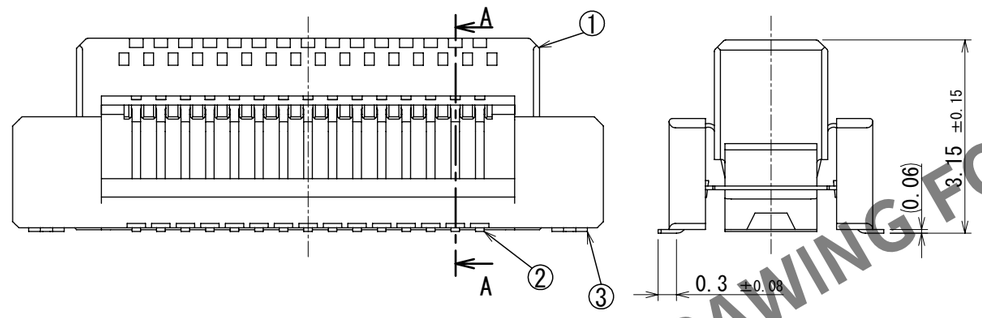
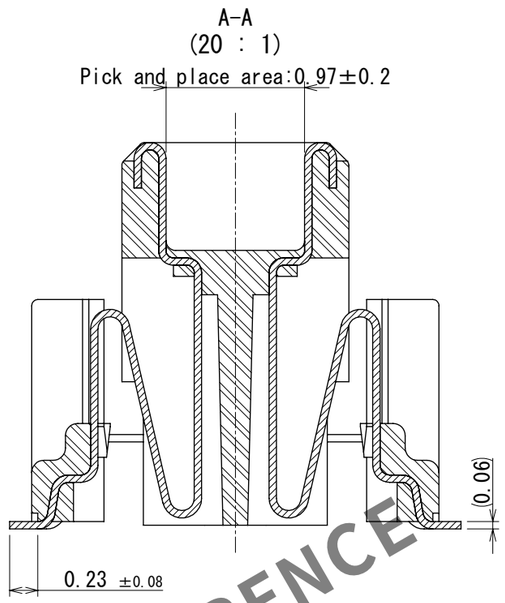
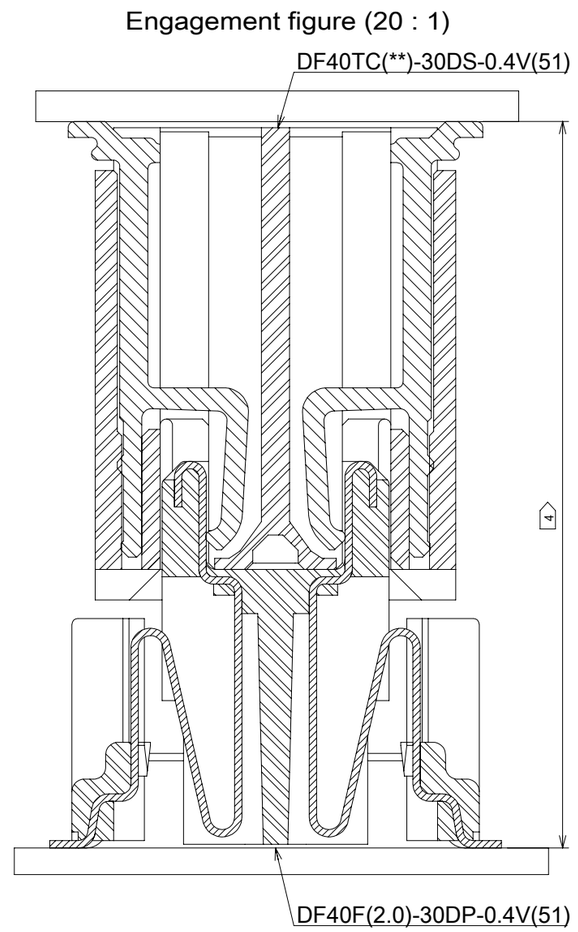


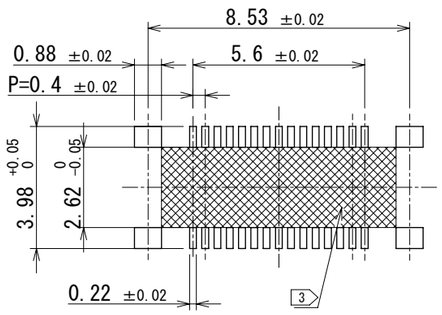



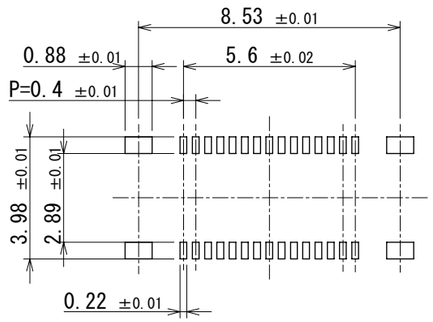



Notes 4
1. All lead co-planarity will be 0.1mm MAX.
2 HRS mark and cavity number are indicated at approximate location.
3 For the rounting on the indicated PCB surface, apply solder resist in order for the insulation treatment.
4 Please use specified dimensions between PCBs.
5 The resin may overlap the top surface of the metal but will not affect the contact reliability.

Recommended pattern




Recommended metal mask dimensions
Recommended metal mask thickness:120μm




4

| | DF40F(2.0)-30DP-0.4V(51) |
|---|---|
| DF40TC-30DS-0.4V(51) | 3.5 +0.25 / 0 |
| DF40TC(2.0)-30DS-0.4V(51) | 4.0 +0.25 / 0 |
| DF40TC(2.5)-30DS-0.4V(51) | 4.5 +0.25 / 0 |
| DF40TC(3.0)-30DS-0.4V(51) | 5.0 +0.25 / 0 |
| DF40TC(3.5)-30DS-0.4V(51) | 5.5 +0.25 / 0 |
| DF40TC(4.0)-30DS-0.4V(51) | 6.0 +0.25 / 0 |

4 CAD Change

| NO. | MATERIAL | FINISH , REMARKS | NO. | MATERIAL | FINISH , REMARKS |
|---|---|---|---|---|---|
| 3 | Copper ally | SMT Lead:Gold 0.05μm Min<br>Underplating: Nickel 1μm Min | 7 | PS | Clear, Reinforcement collar |
| 2 | Copper alloy | Contact area:Gold 0.05μm Min<br>SMT Lead:Gold 0.05μm Min<br>Underplating: Nickel 1μm Min | 6 | PS | Black, Plastic reel |
| | | | 5 | Polyester | Clear, Cover tape |
| 1 | LCP | BLACK | 4 | PS | Clear, Embossed carrier tape |

| UNITS | SCALE | | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|---|---|
| mm | 10:1 | 4 | 4 | DIS-H-00019006 | YK. SATAKE | RT. SHIMIZU | 2023.08.31 |

HIROSE ELECTRIC CO., LTD.

| | | |
|---|---|---|
| APPROVED | WR. FUKUCHI | 2022.01.26 |
| CHECKED | RT. SHIMIZU | 2022.01.26 |
| DESIGNED | YK. SATAKE | 2022.01.25 |
| DRAWN | YK. SATAKE | 2022.01.25 |

| | |
|---|---|
| DRAWING NO. | EDC-376700-51-00 |
| PART NO. | DF40F(2.0)-30DP-0.4V(51) |
| CODE NO. | CL0684-4501-0-51 |

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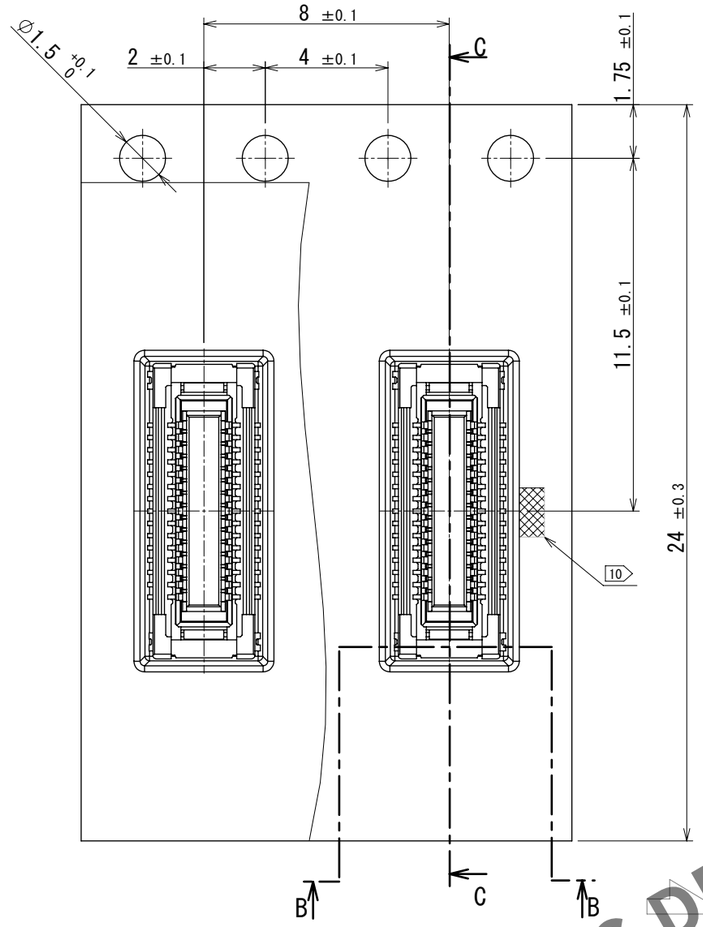
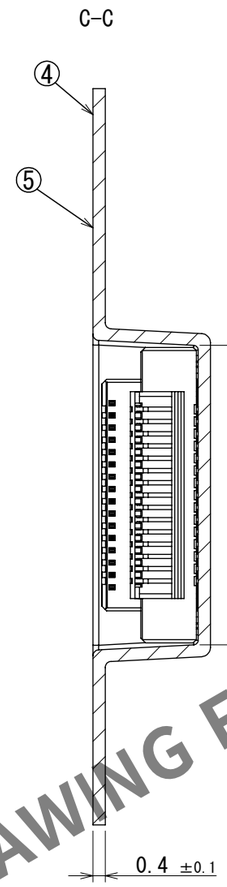
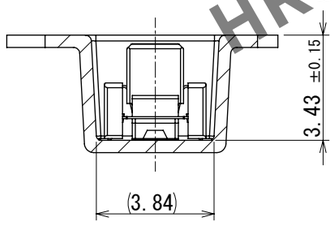
Embosses carrier tape packaging (5:1)

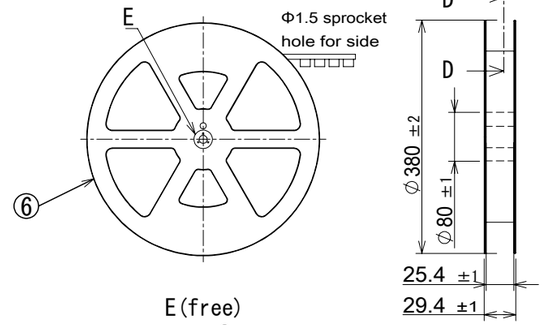


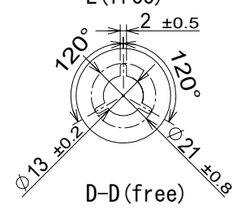

Direction of unreeling



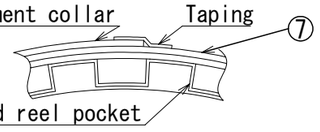

Style and dimension of reel(free) 4



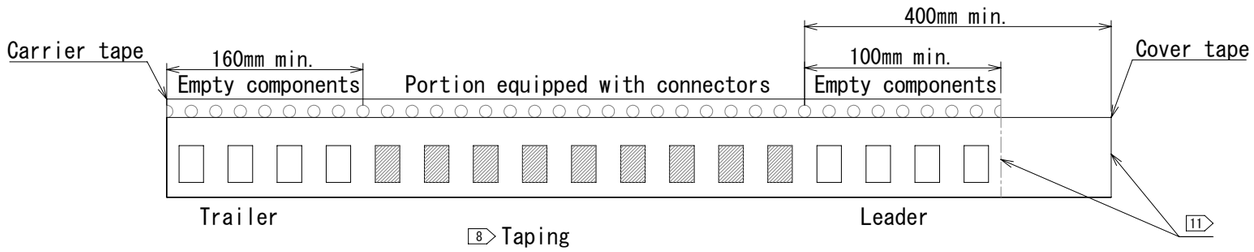

E(free)




D-D(free)




Taping(free)




Notes
6 . 3,000 connectors per reel.
7 . The dimensions in parentheses are only for reference.
8 . Refer to IEC 60286-3 (packaging of components for automatic handling)
9 . The reinforcing collar is wrapped around the emboss tape and taped down at the end of the collar.
10 . Some of the pockets may have a different shape.
11 . The end of cover tape might be the same length with emboss carrier tape.



| | |
|---|---|
| DRAWING NO. | EDC-376700-51-00 |
| PART NO. | DF40F(2.0)-30DP-0.4V(51) |
| CODE NO. | CL0684-4501-0-51 |

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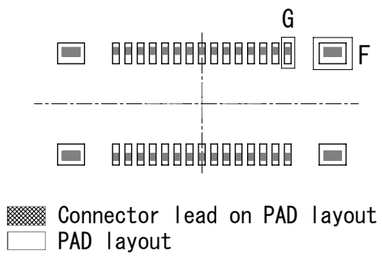
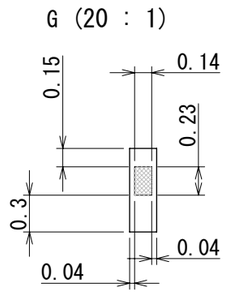
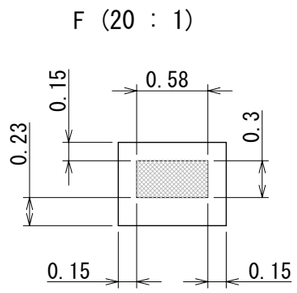
3D Model File Name:Customer-DF40F-30DP-0.4V

12. Please refer to the pruduct guideline for detail of connector handling. △4

## The position between the connector and PAD

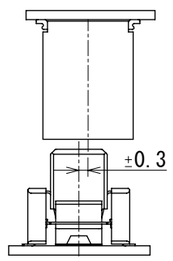


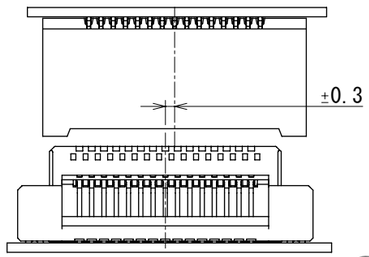




## Mating method

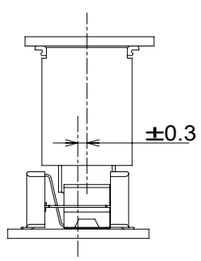
(1) The alignment dimension is ±0.3mm in the X and Y directions.
After the start of mating, follow the alignment and mate perpendicularly to the board without applying an overloading to the connector.

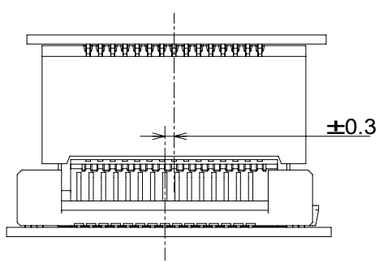



## Misalignment allowance in mated condition (Floating range)

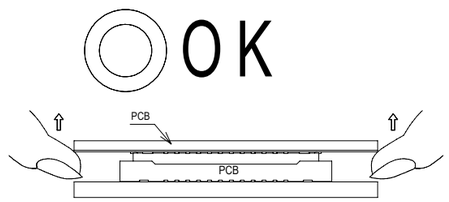
(1) Because of floating design, this connector has a ±0.3mm board misalignment tolerance in the X and Y directions when mated. However, it is not suitable for absorption when the range of misalignment constantly changes due to vibration, etc.
The number of repetitions of floating movable operations is stipulated to be no more than 10 times.

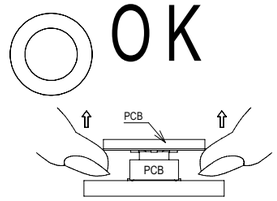


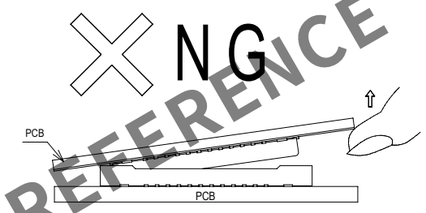

## Un-mating method

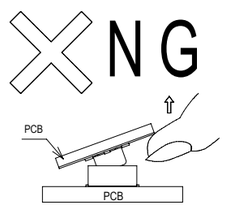
(1) Un-mate the connectors parallel to each other.




(2) When un-mating the connector, pull it out in parallel.
If it is un-mated in an inclined position, connector may deform.

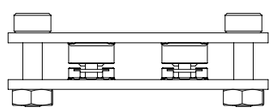


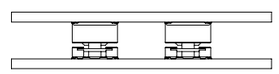

## Securing PCBs

(1) This connector can absorb misalignment between PCBs, but not vibration.
If you support PCBs only with the connectors without taking any fixing measures, the load on the connectors will be excessive and may cause broken or contact failure.
Be sure to secure PCBs except for the connectors as shown below to prevent the board from moving. This connector connects the board to the board.
When using mounting to FPC, fasten the board and FPC to the case separately.

OK
Fixing PCBs with a spacer or case



NG
Do not use the product without fixing PCBs together





| | | |
|---|---|---|
| HRS | DRAWING NO. | EDC-376700-51-00 |
| | PART NO. | DF40F(2.0)-30DP-0.4V(51) |
| | CODE NO. | CL0684-4501-0-51 △4 3/3 |



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