

# MINIFLEX® 3-BFN L-HD

0.3 mm pitch, 0.9 mm height, equipped with hold-down, horizontal mating, backflip FPC connector

## Product Specifications:

|                       |                                         |
|-----------------------|-----------------------------------------|
| Contact Pitch         | 0.3 mm                                  |
| Board Pitch           | 0.6 mm                                  |
| Contact Mating Length | Contact A: 0.9 mm<br>Contact B: 0.45 mm |
| Mated Size            | Height: 0.9 +/- 0.1 mm                  |
|                       | Width: 1.5 + (0.3 x pin count) mm       |
|                       | Depth: Open: 2.55 mm<br>Close: 3.5 mm   |
| Available Pin Count * | 51                                      |

\* Please inquire for pin counts not listed or outside of the pin count range.

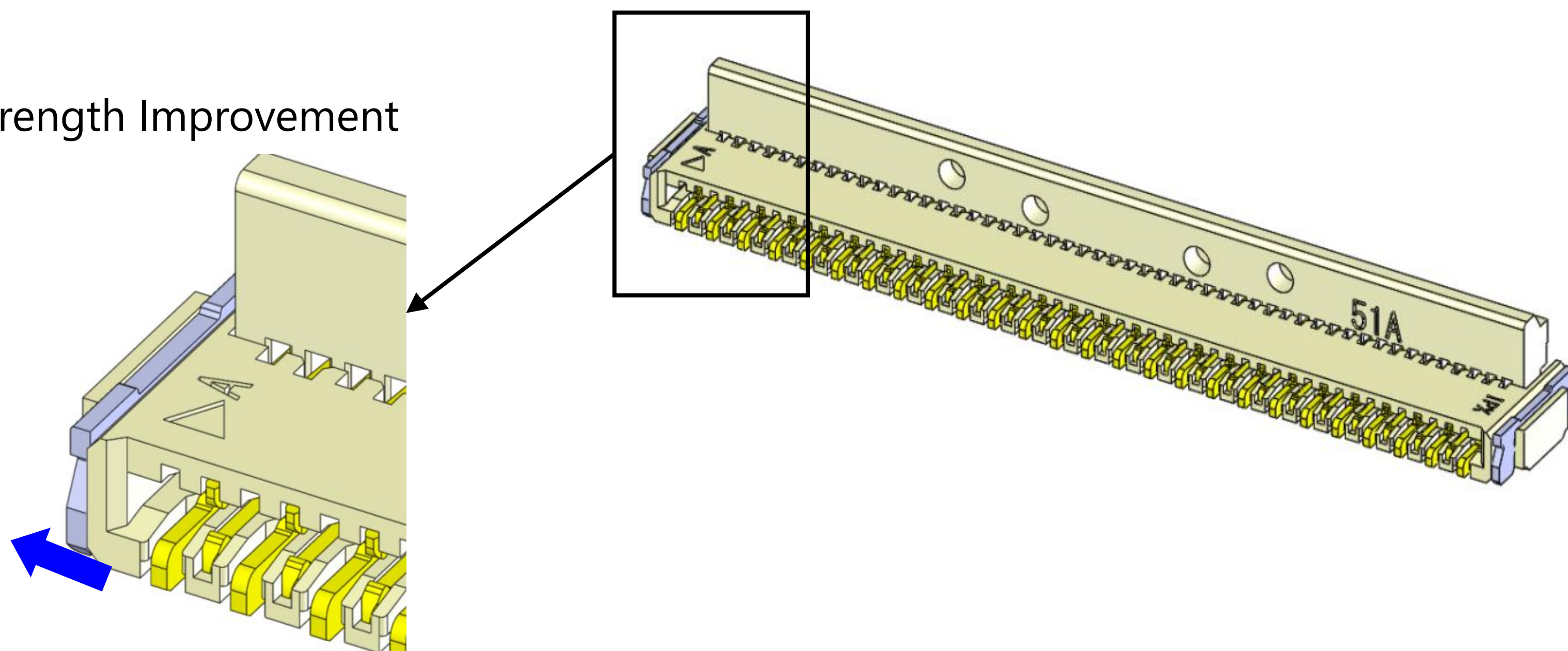
## Applicable FPC/FFC:

|                       |                 |
|-----------------------|-----------------|
| FPC/FFC Contact Pitch | 0.3 mm          |
| FPC/FFC Contact Point | Top and Bottom  |
| FPC/FFC Thickness     | 0.2 +/- 0.03 mm |

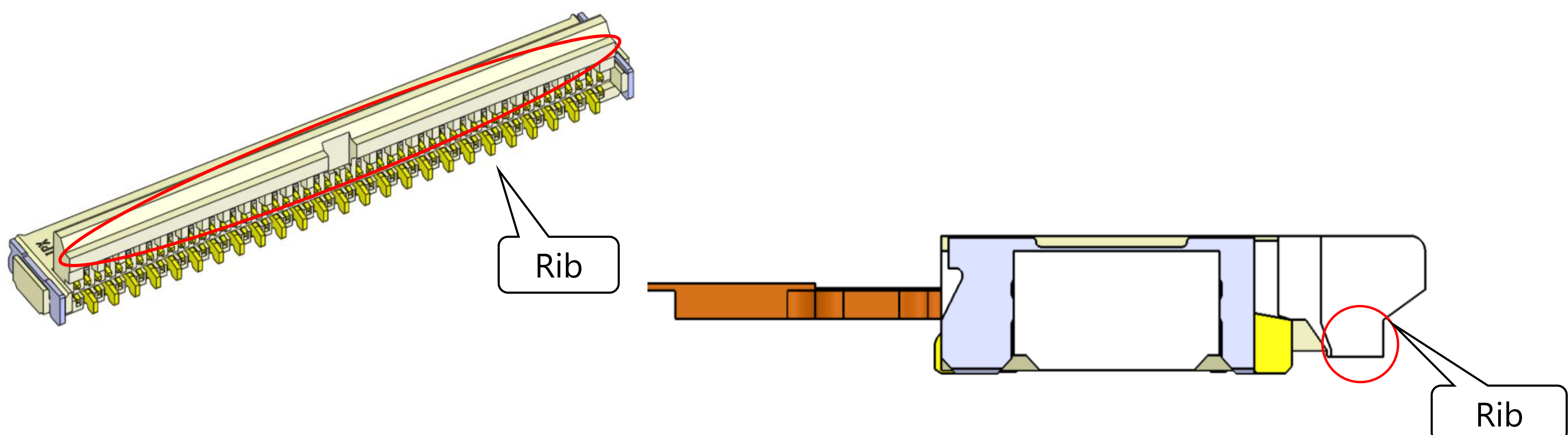


## ► Hold-down feature improves strength of side wall

Strength Improvement



## ► Designed to prevent contact distortion

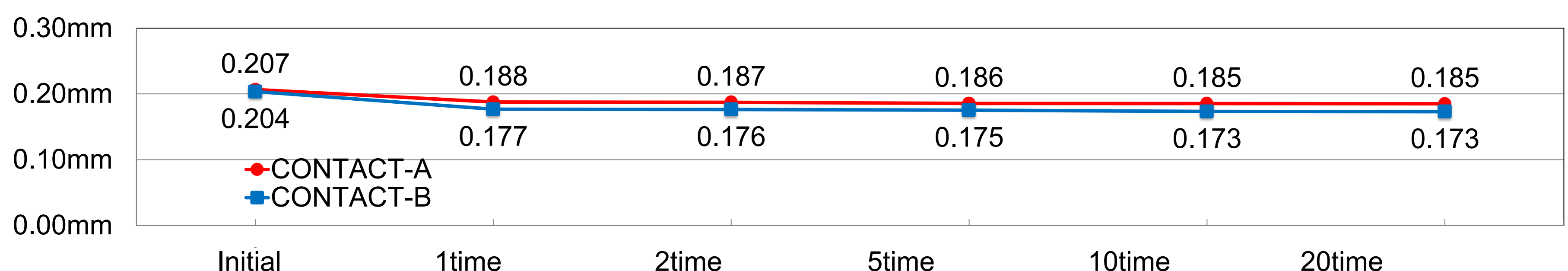


When opening the actuator, the rib will prevent the contacts from being pulled up

## ► Usability for closing actuator without FPC

The connector will still function even if the actuator is accidentally closed without the FPC being inserted after the SMT process.

- Connector will still function reliably (contact gap graph 51 pins before and after operating actuator without FPC inserted).

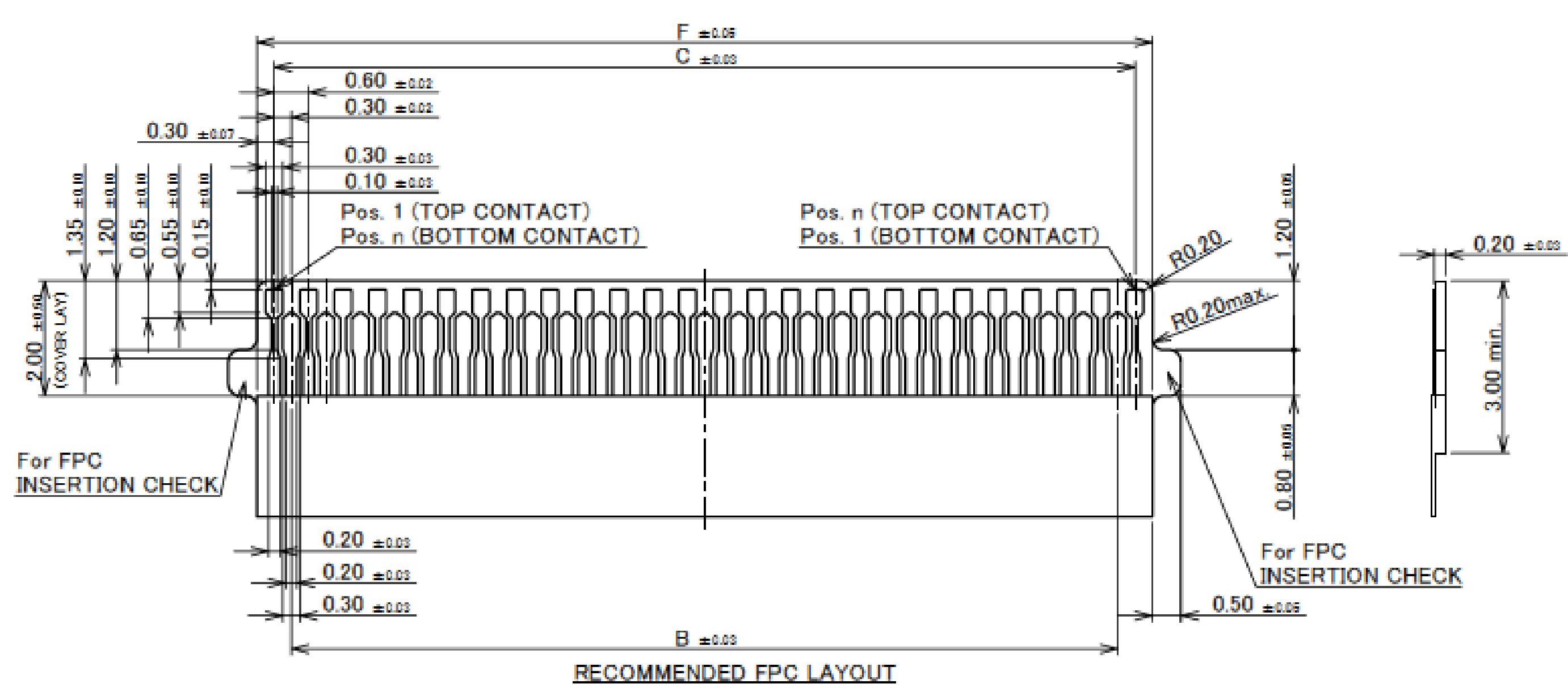


- Insertion force of connector goes up
- Retention force of connector does not change greatly

## Connector Assembly

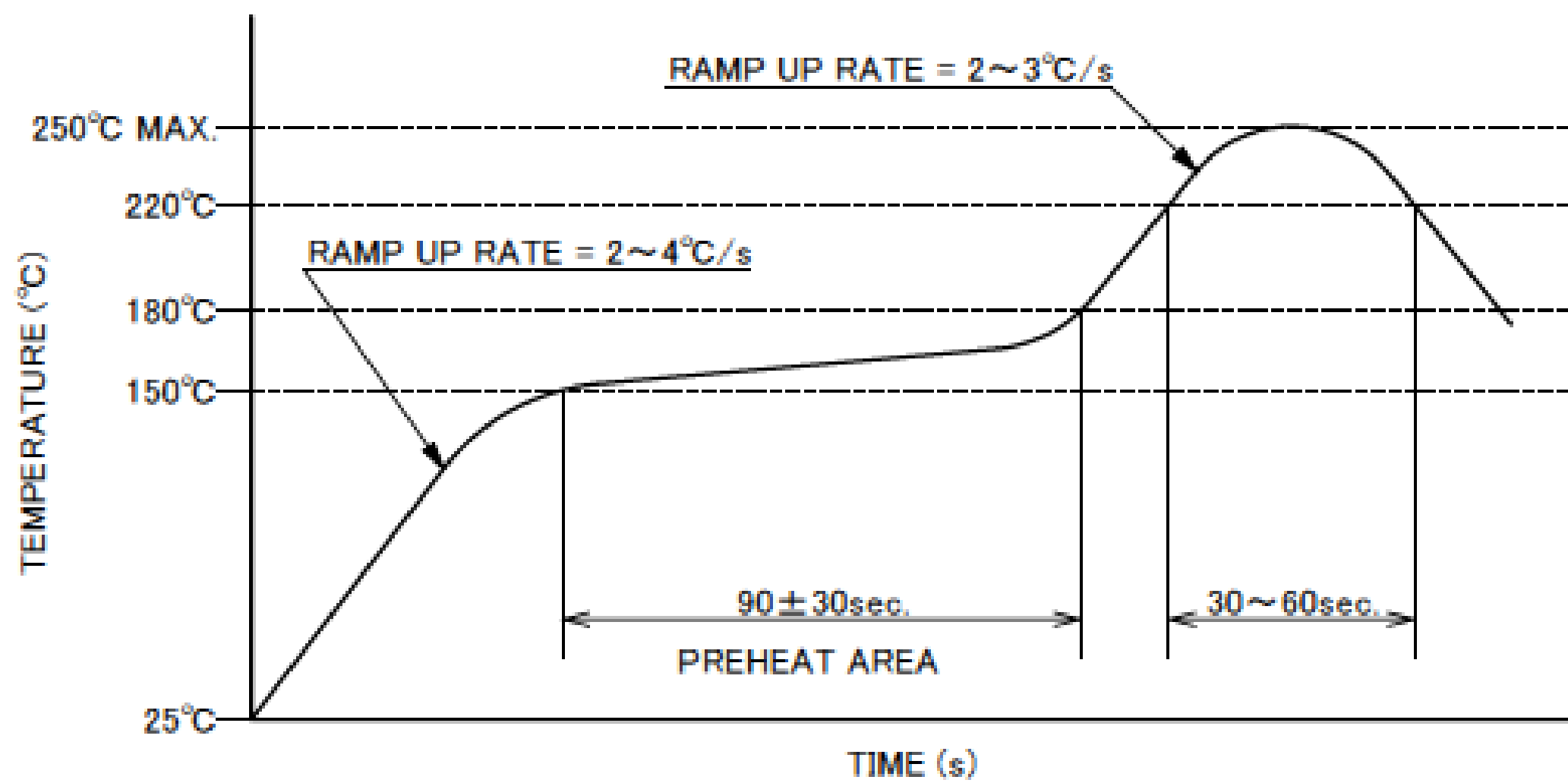
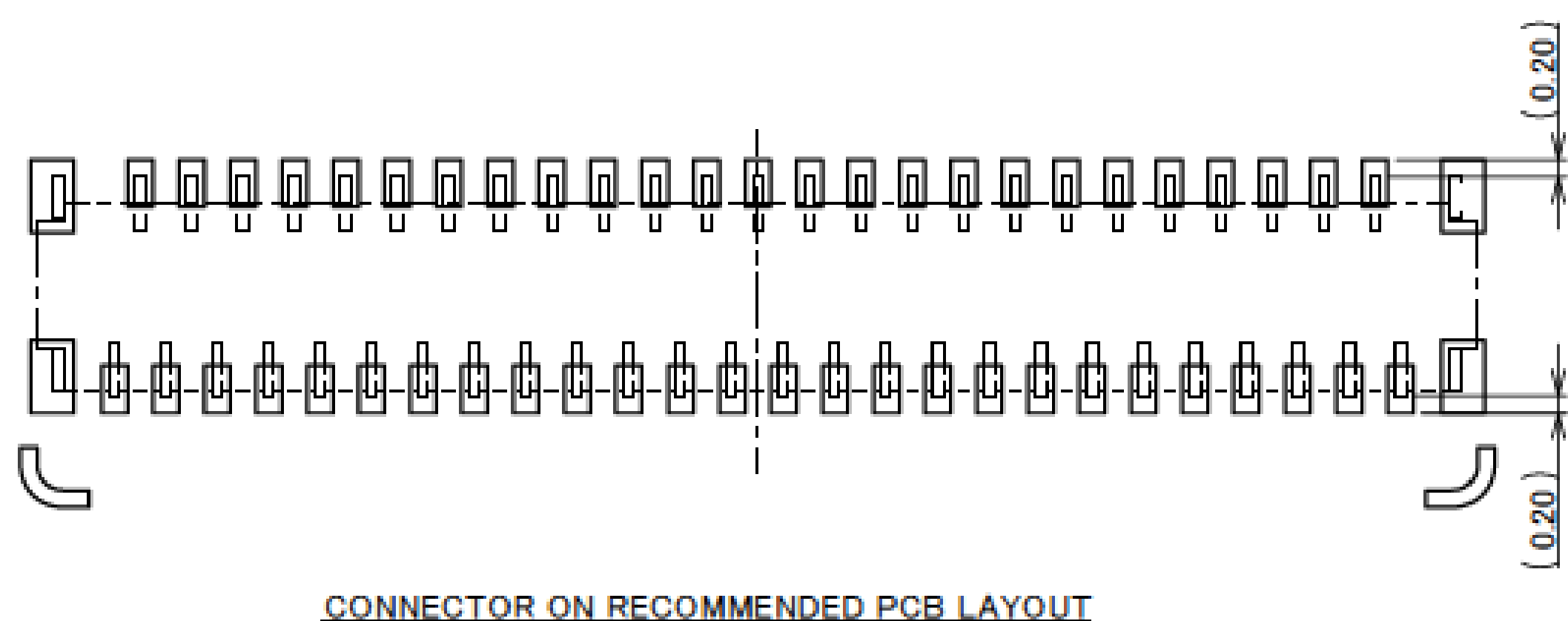
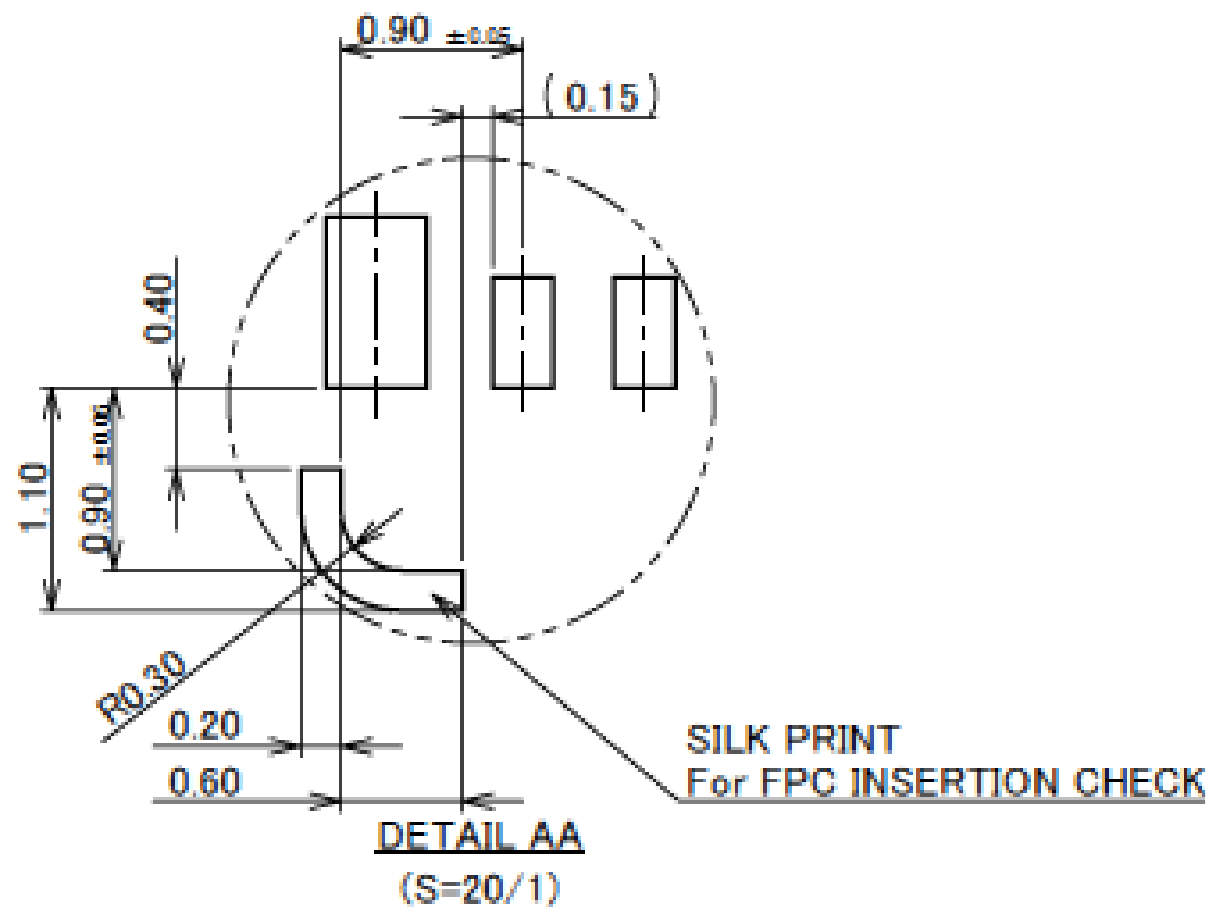
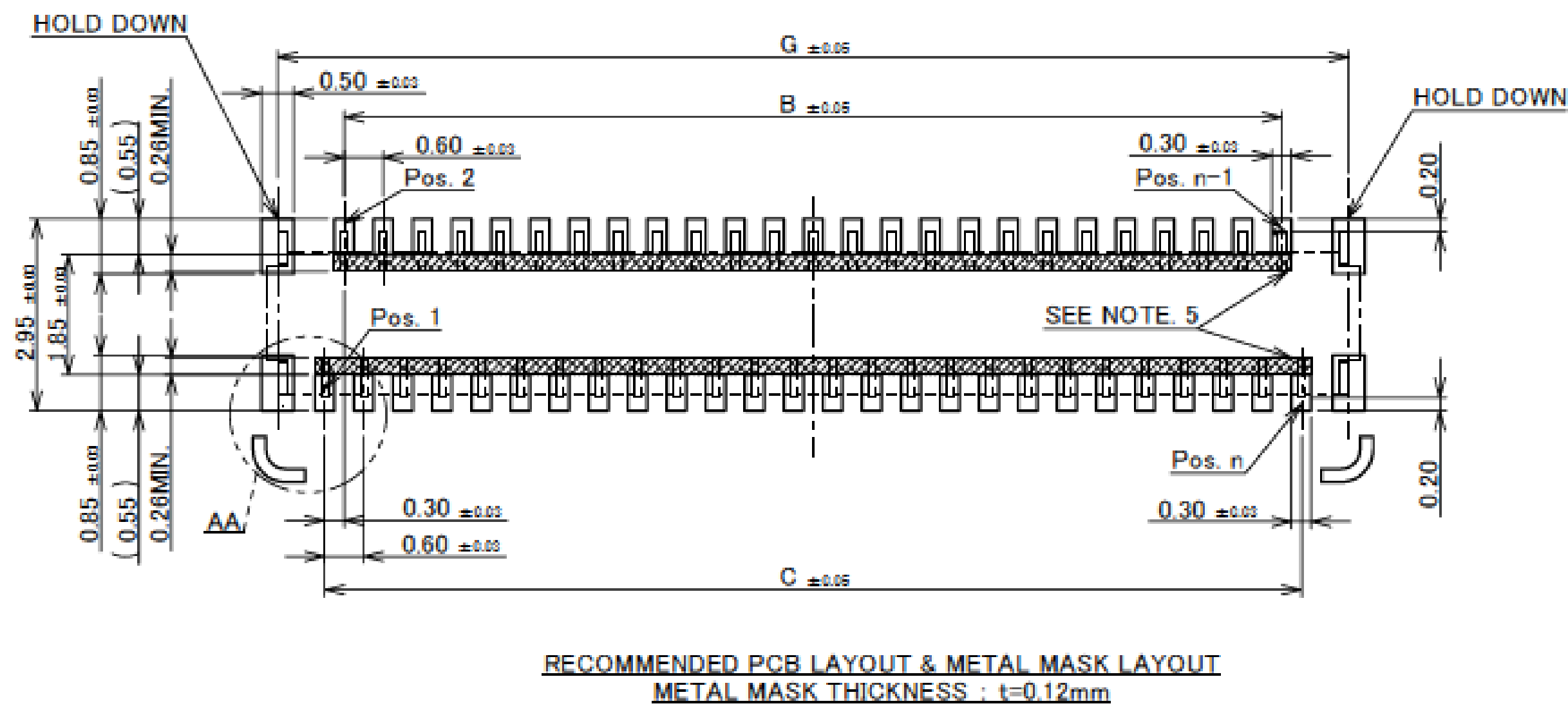
Contact your sales representative for more detailed information. [www.i-pex.com](http://www.i-pex.com)

Connector Assembly



| PART NO.       | Pos. | B     | C     | F     | G     |
|----------------|------|-------|-------|-------|-------|
| ◆20982-015E-01 | 15P  | 3.60  | 4.20  | 4.80  | 5.65  |
| ◆20982-033E-01 | 33P  | 9.00  | 9.60  | 10.20 | 11.05 |
| ◆20982-035E-01 | 35P  | 9.60  | 10.20 | 10.80 | 11.65 |
| ◆20982-037E-01 | 37P  | 10.20 | 10.80 | 11.40 | 12.25 |
| ◆20982-039E-01 | 39P  | 10.80 | 11.40 | 12.00 | 12.85 |
| ◆20982-041E-01 | 41P  | 11.40 | 12.00 | 12.60 | 13.45 |
| ◆20982-045E-01 | 45P  | 12.60 | 13.20 | 13.80 | 14.65 |
| ◆20982-049E-01 | 49P  | 13.80 | 14.40 | 15.00 | 15.85 |
| ◆20982-051E-01 | 51P  | 14.40 | 15.00 | 15.60 | 16.45 |
| ◆20982-055E-01 | 55P  | 15.60 | 16.20 | 16.80 | 17.65 |
| ◆20982-057E-01 | 57P  | 16.20 | 16.80 | 17.40 | 18.25 |
| ◆20982-061E-01 | 61P  | 17.40 | 18.00 | 18.60 | 19.45 |
| ◆20982-065E-01 | 65P  | 18.60 | 19.20 | 19.80 | 20.65 |
| ◆20982-067E-01 | 67P  | 19.20 | 19.80 | 20.40 | 21.25 |
| ◆20982-071E-01 | 71P  | 20.40 | 21.00 | 21.60 | 22.45 |
| ◆20982-075E-01 | 75P  | 21.60 | 22.20 | 22.80 | 23.65 |

- ◆ MARK MEANS NOT AVAILABLE.
- NOTES.
3. MATERIAL  
COVER FILM : PI  
CONDUCTOR : COPPER(RARE)  
BASE FILM : PI  
STIFFENER : PI  
ADHESIVE : THERMOSETTING ADHESIVE
4. FINISH  
Au OVER Ni UNDER PLATING.
5. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



REFLOW TEMPERATURE PROFILE  
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.0

Rev.0

# Connector Assembly

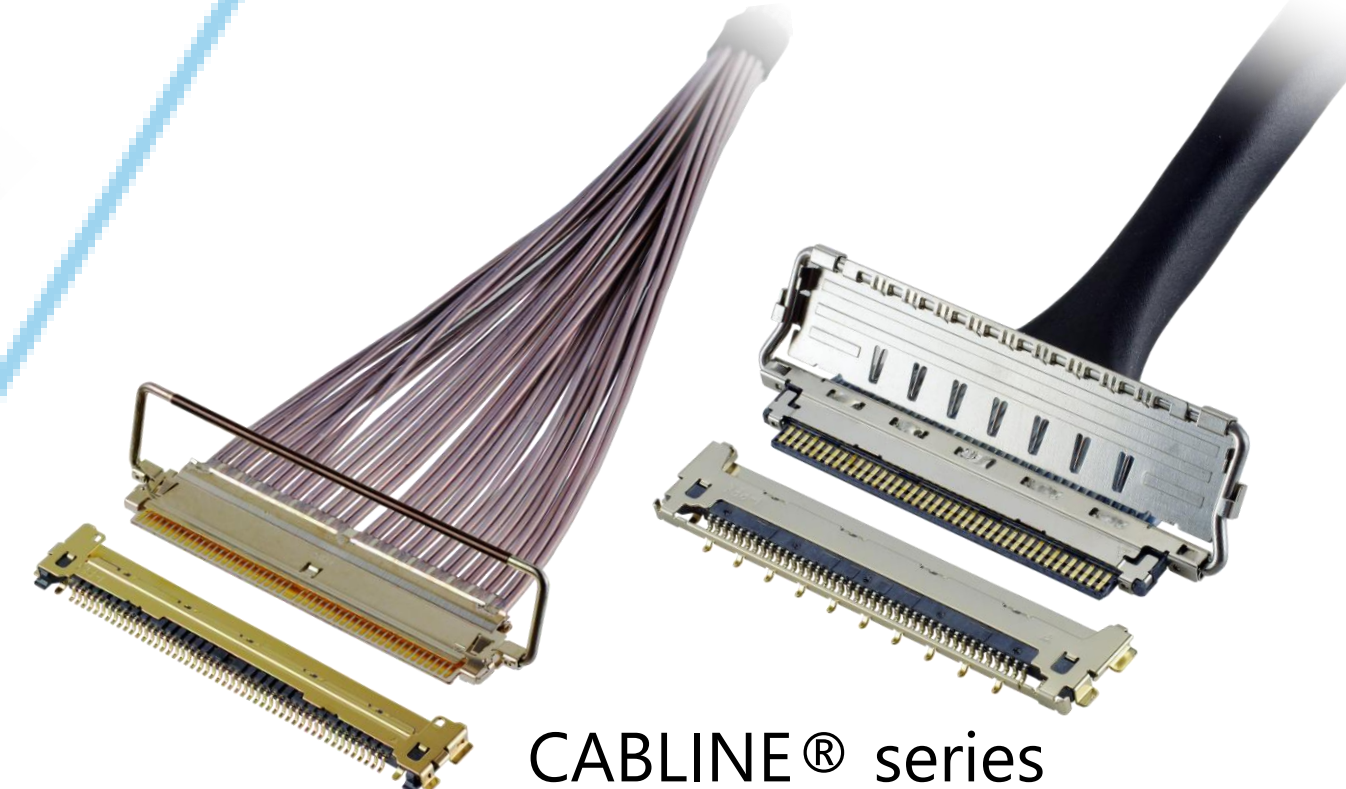
| ITEMS                                          | SPECIFICATION                                                      |
|------------------------------------------------|--------------------------------------------------------------------|
| RATING VOLTAGE                                 | 50V AC (PER CONTACT)                                               |
| RATING AMPERAGE                                | 0.3A DC (PER CONTACT)                                              |
| OPERATING TEMPERATURE                          | 233~358K (-40°C~+85°C)                                             |
| OPERATING HUMIDITY                             | 20~80%RH (NON-CONDENSING)                                          |
| CONTACT RESISTANCE                             | INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.       |
| INSULATION RESISTANCE                          | 100Mohm MIN.                                                       |
| DIELECTRIC WITHSTANDING VOLTAGE                | AC250V 1min                                                        |
| DURABILITY                                     | 20 CYCLES                                                          |
| ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)   | INITIAL / 20 CYCLES 0.21N (21gf) × n MAX.                          |
| ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES) | INITIAL / 20 CYCLES 0.014N (1.4gf) × n MIN.                        |
| FPC RETENTION FORCE (INITIAL / AFTER TEST)     | INITIAL: 0.13N (13gf) × n MIN. / AFTER TEST: 0.10N (10gf) × n MIN. |
| COPLANARITY                                    | 0.10 MAX.                                                          |
| PRODUCT SPECIFICATION                          | PRS-2650                                                           |
| TEST REPORT                                    | TR-20010                                                           |
| PACKING STANDARD                               | PST-15093                                                          |
| INSTRUCTION MANUAL                             | HIM-12007                                                          |
| APPEARANCE CRITERIA No.                        | QLS-A***                                                           |

※ “n” IS THE NUMBER OF PIN

# Custom Connectors Available

## RF Connectors

MHF® series



CABLINE® series

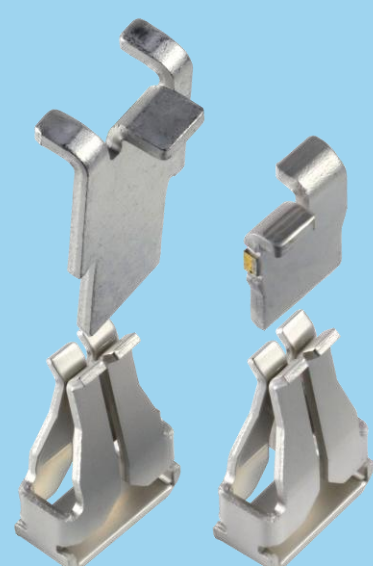


## Micro-Coaxial/Twinaxial Connectors

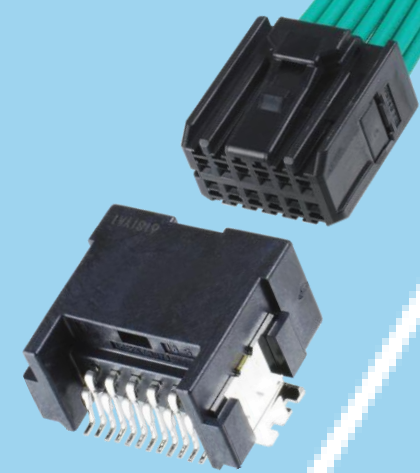


## Wire-to-Board Connectors/ Terminals

AP series



ISH® series



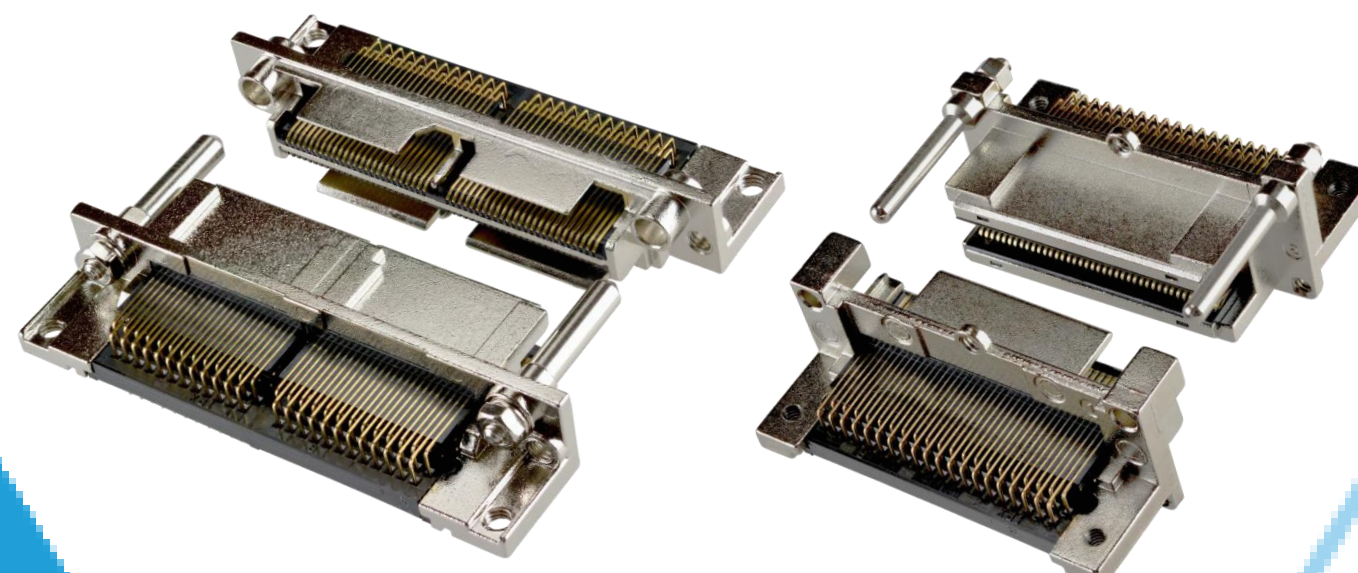
NOVASTACK® series



## Board-to-Board Connectors

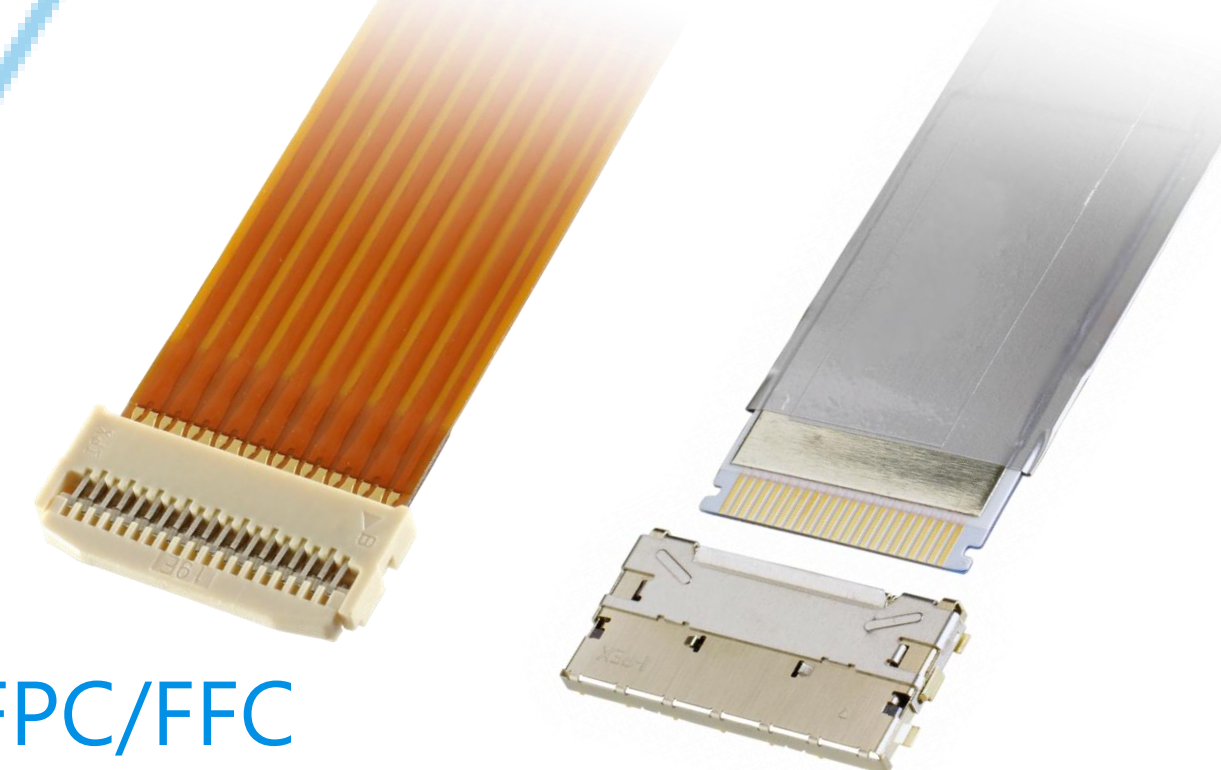


## I/O Connectors



MINIDOCK™ series

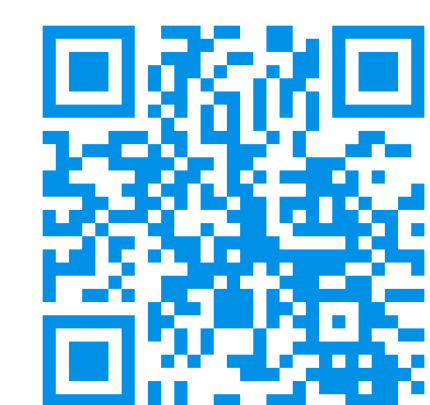
MINIFLEX® series EVAFLEX® series



## FPC/FFC Connectors



Inquiry



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