

MINIFLEX® 3-BFN L-HD

0.3 mm pitch, 높이 0.9 mm, hold down 장착, 수평 결합 type, back flip FPC connector

Product Specifications:

Contact Pitch	0.3 mm
Board Pitch	0.6 mm
Contact Mating Length	Contact A: 0.9 mm 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 Close: 3.5 mm
Available Pin Count *	51

Applicable FPC/FFC:

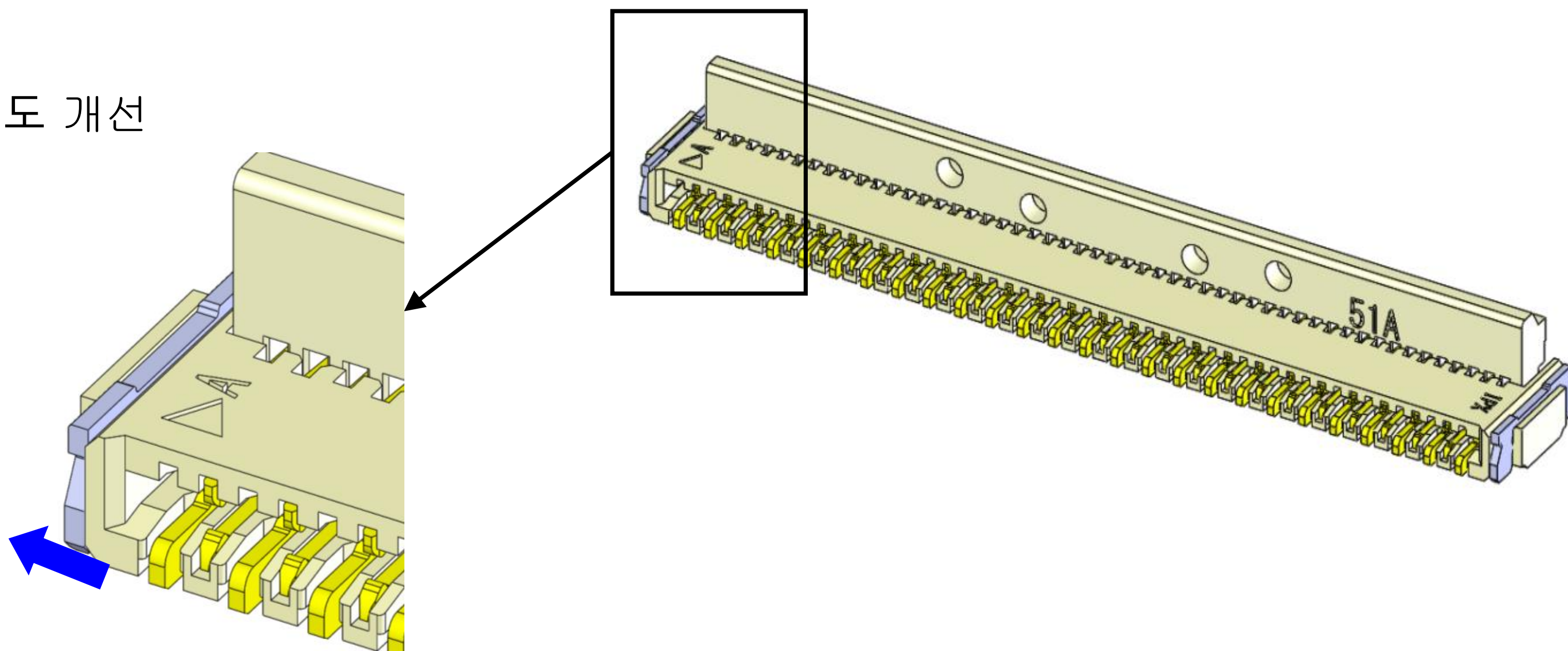
FPC/FFC Contact Pitch	0.3 mm
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness	0.2 +/- 0.03 mm

*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

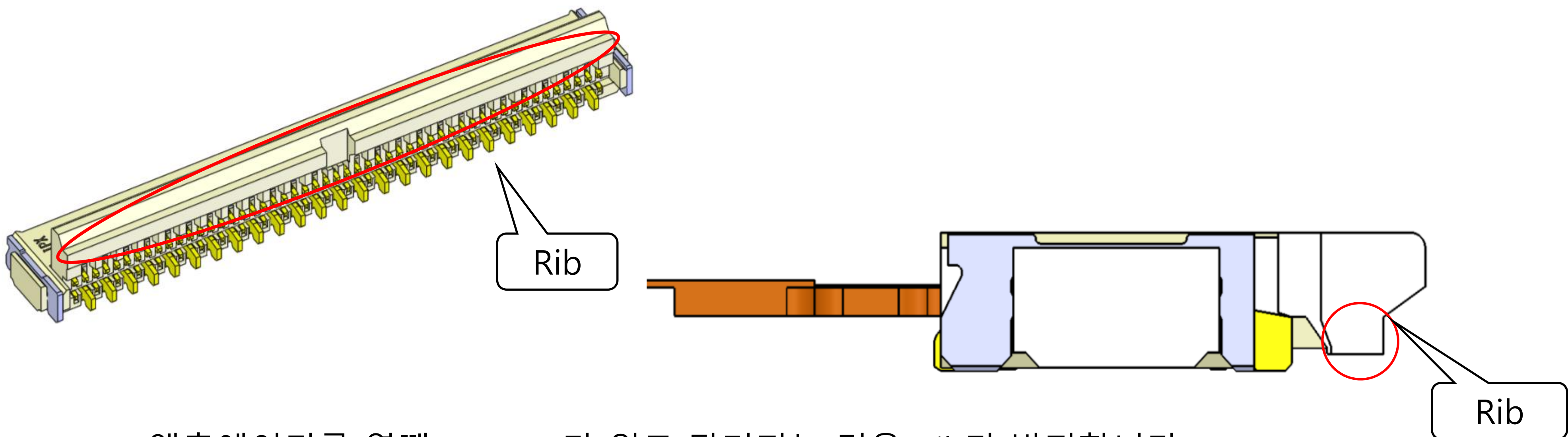


▶ 보강판에 의한 측벽 강도 강화

강도 개선



▶ 단자 변형 방지 설계

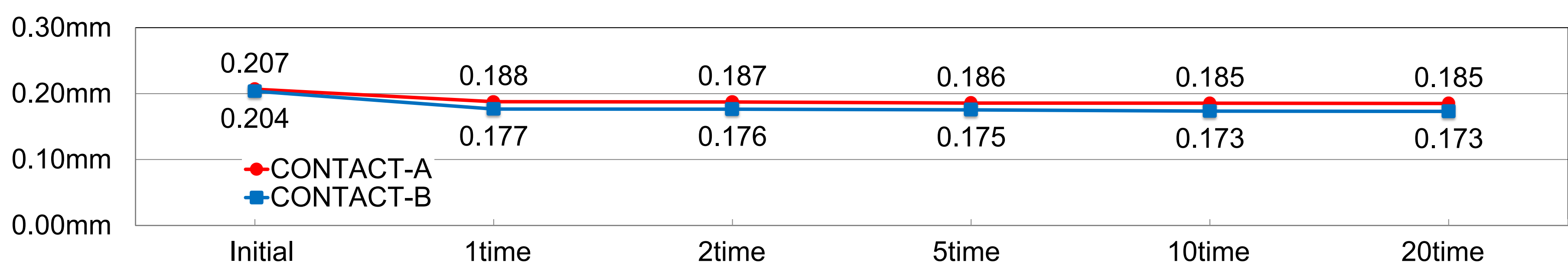


액추에이터를 열때 Contact가 위로 당겨지는 것을 Rib가 방지합니다

▶ FPC 미삽입 상태에서도 액추에이터 닫기 조작 가능(단자 변형 최소화)

SMT 공정 후에 FPC를 삽입하지 않고 우연히 액추에이터를 닫은 경우에도 Contact 변형 최소화

- 커넥터가 여전히 안정적으로 작동합니다(FPC를 삽입하지 않은 상태에서 액추에이터 작동 전후 접촉 간격 그래프 51핀)

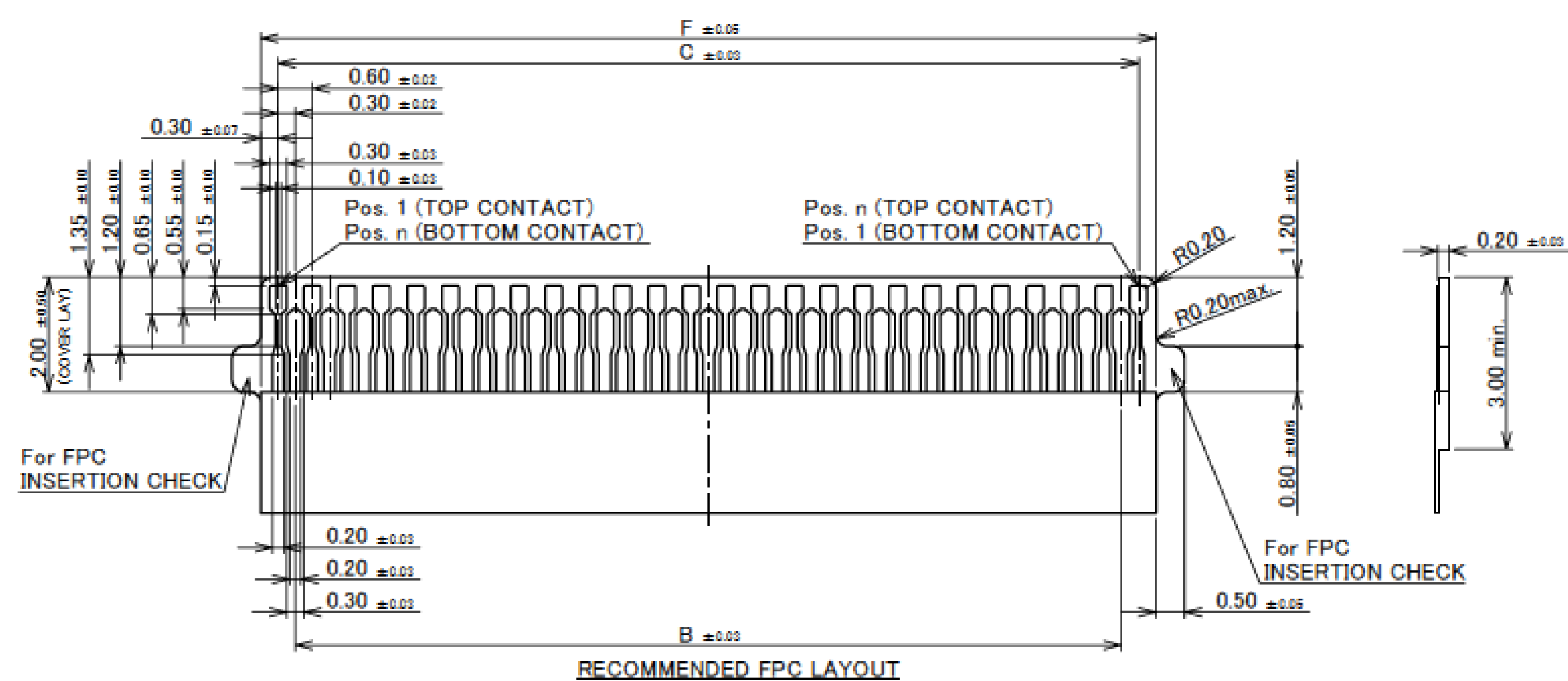


- 커넥터의 삽입력 상승
- 커넥터의 고정력은 큰 변화 없음

Connector Assembly

PART NO.		FINISH	
20982-0**E-01		CONTACT AREA : Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.	
5	HOLD DOWN	PHOSPHOR BRONZE	Sn 2~6 μ m MIN. OVER Ni 1.00 μ m MIN.
4	CONTACT (B)	PHOSPHOR BRONZE	SEE TABLE 1, WITH Ni STRIPE
3	CONTACT (A)	PHOSPHOR BRONZE	SEE TABLE 1
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO	DISCRPTION	MATERIAL	FINISH . REMARKS

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 : P1

CONDUCTOR : COPPER(RARE)
BASE FILM : PI

BASE FILM
STIFFNESS

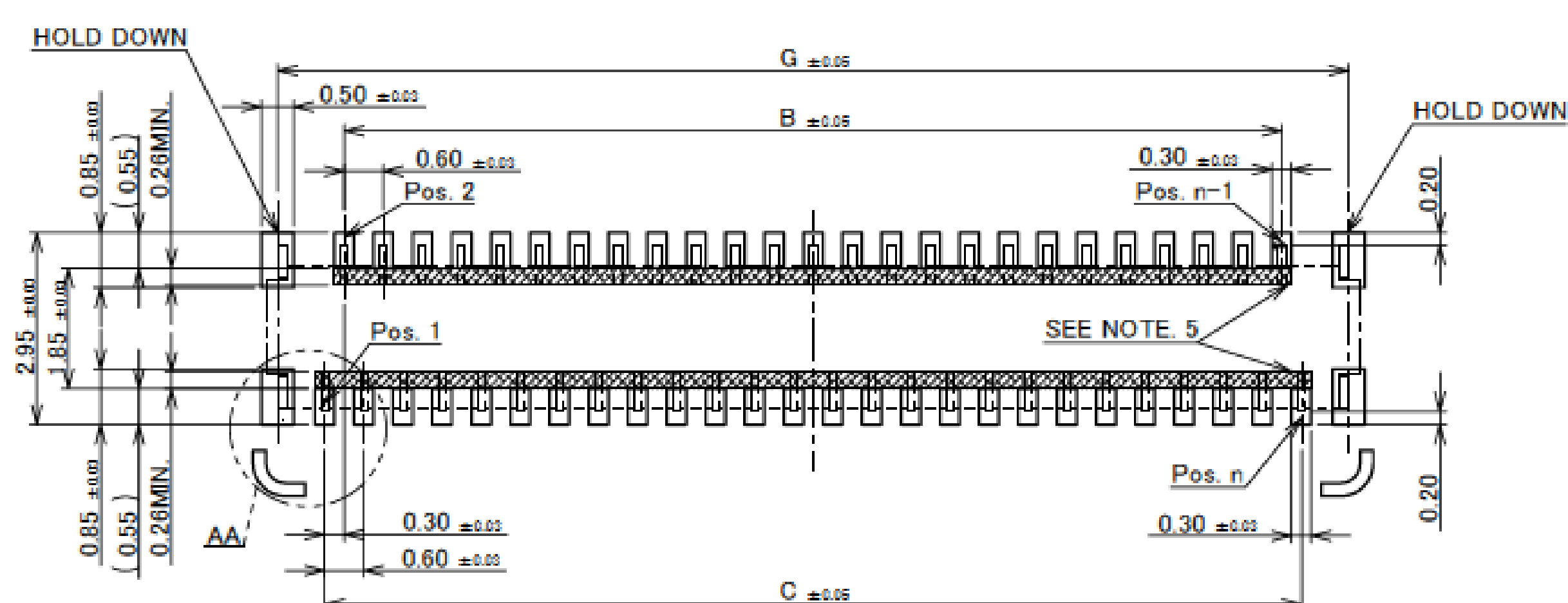
STIFFENER : PI
ADHESIVE : THERMOSETTING ADHESIVE

4. FINISH

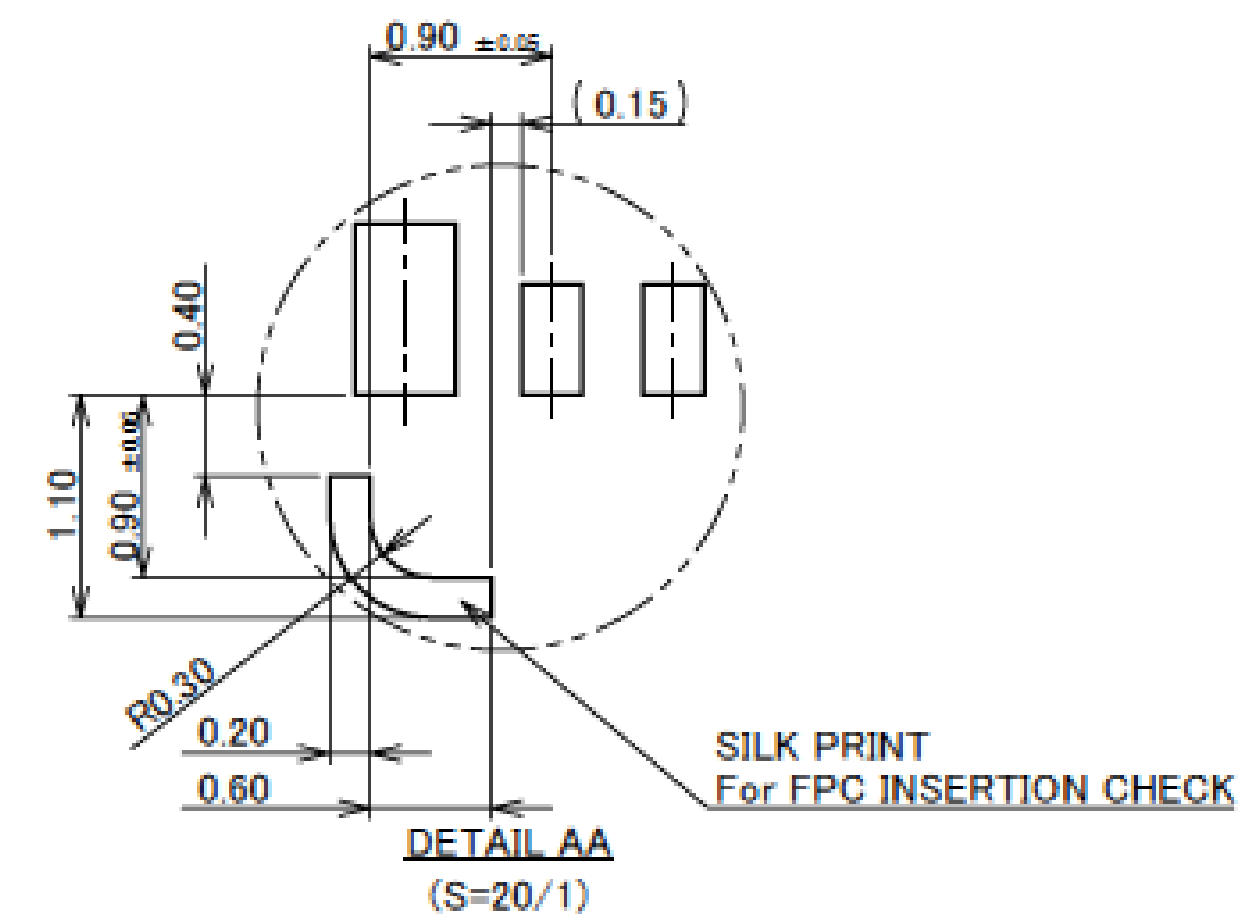
4. FINISH

Al OVER Ni UNDER PLATING.

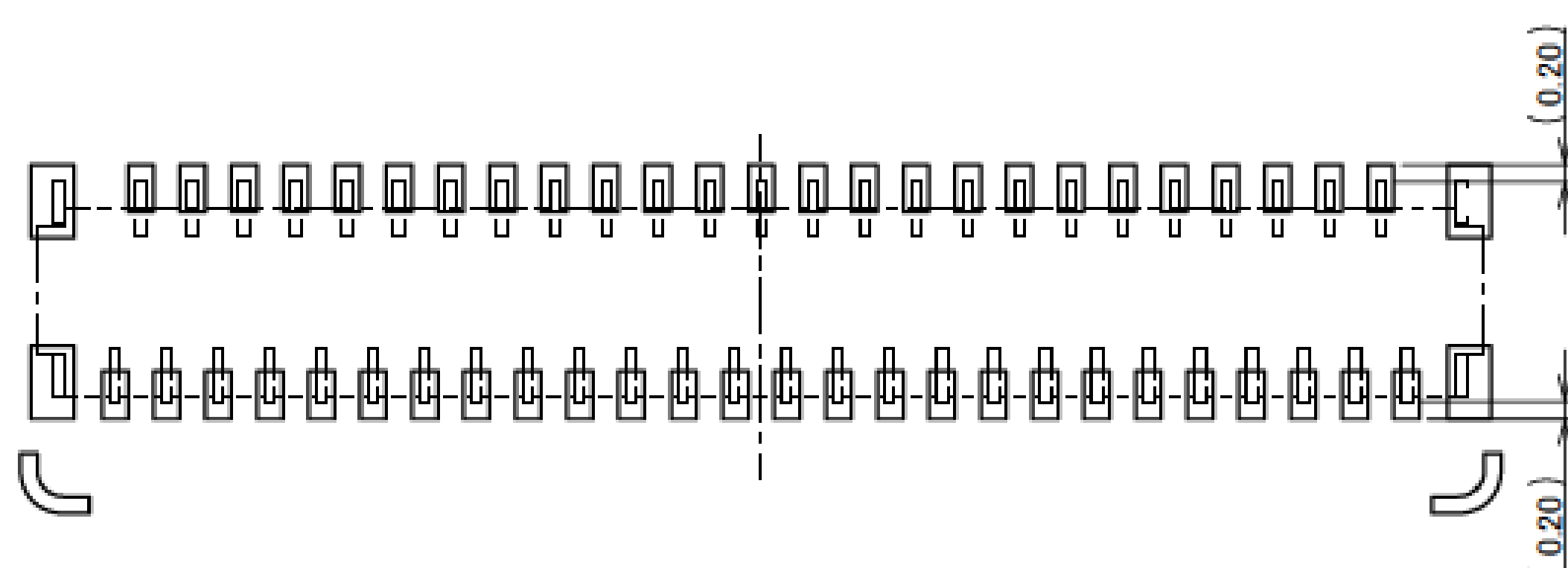
5. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



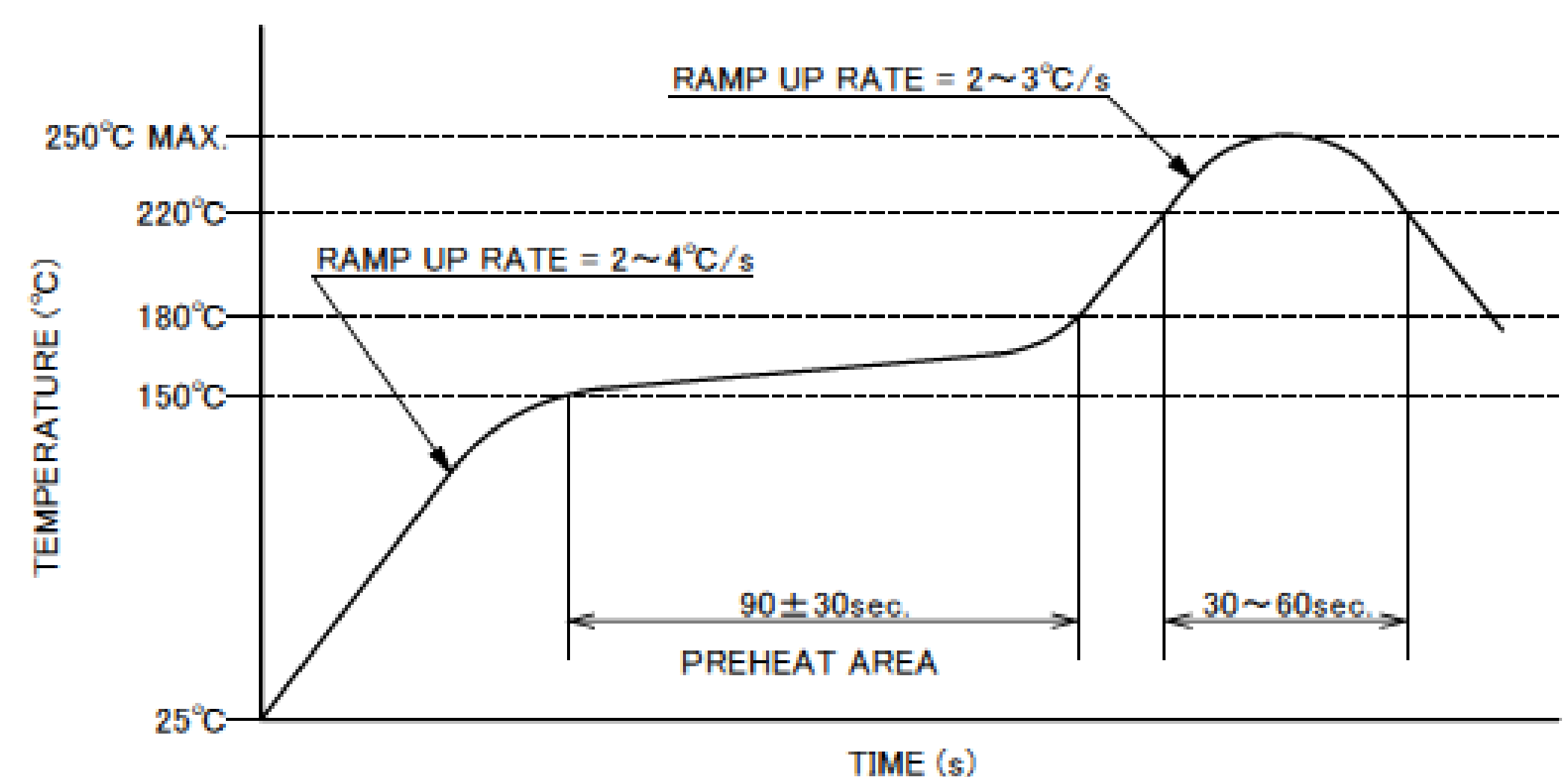
RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : $t=0.12\text{mm}$



Rev.0



CONNECTOR ON RECOMMENDED PCB LAYOUT



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

Connector Assembly

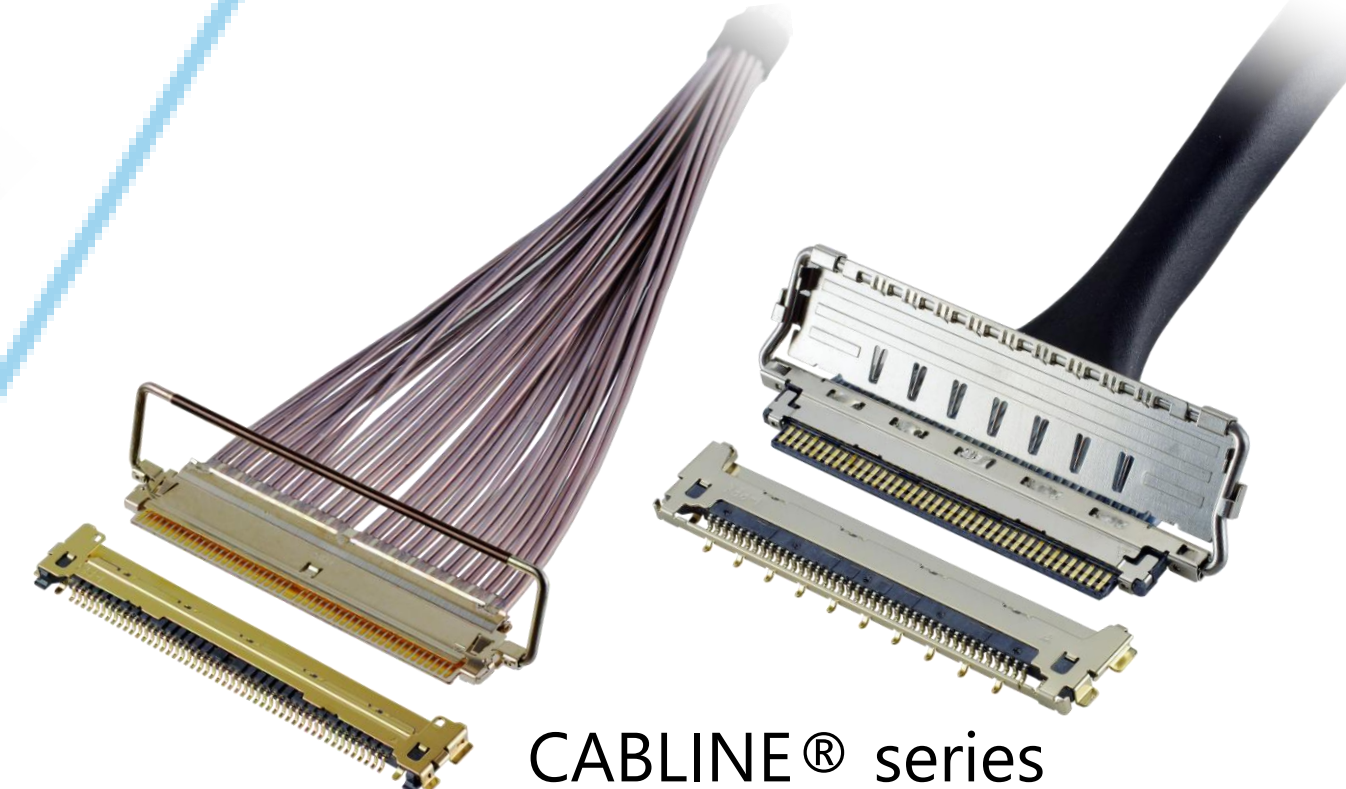
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K (-40°C~+85°C)
OPERATING HUMIDITY	20~80%RH (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC 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



CABLIN® series

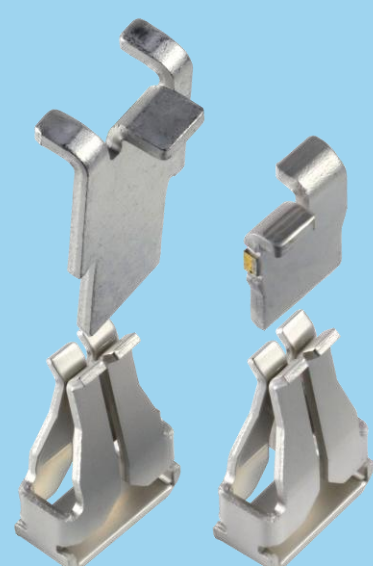


Micro-Coaxial/Twinaxial Connectors

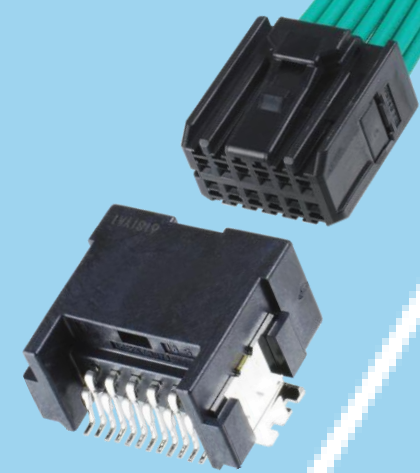


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



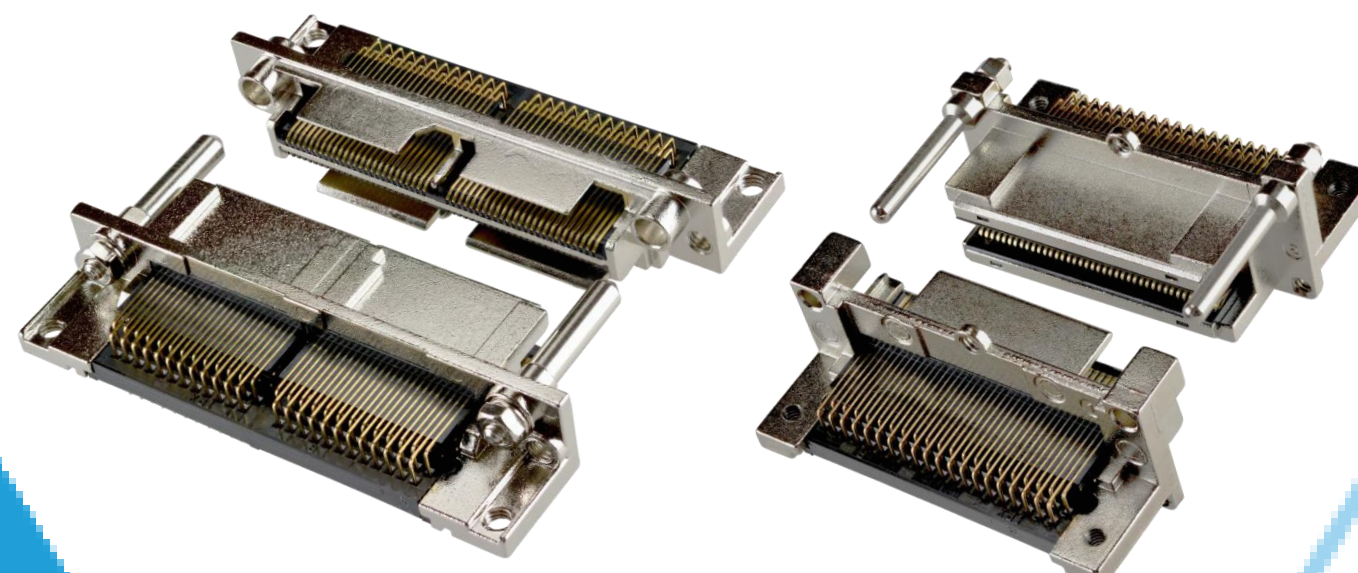
NOVASTACK® series



Board-to-Board Connectors

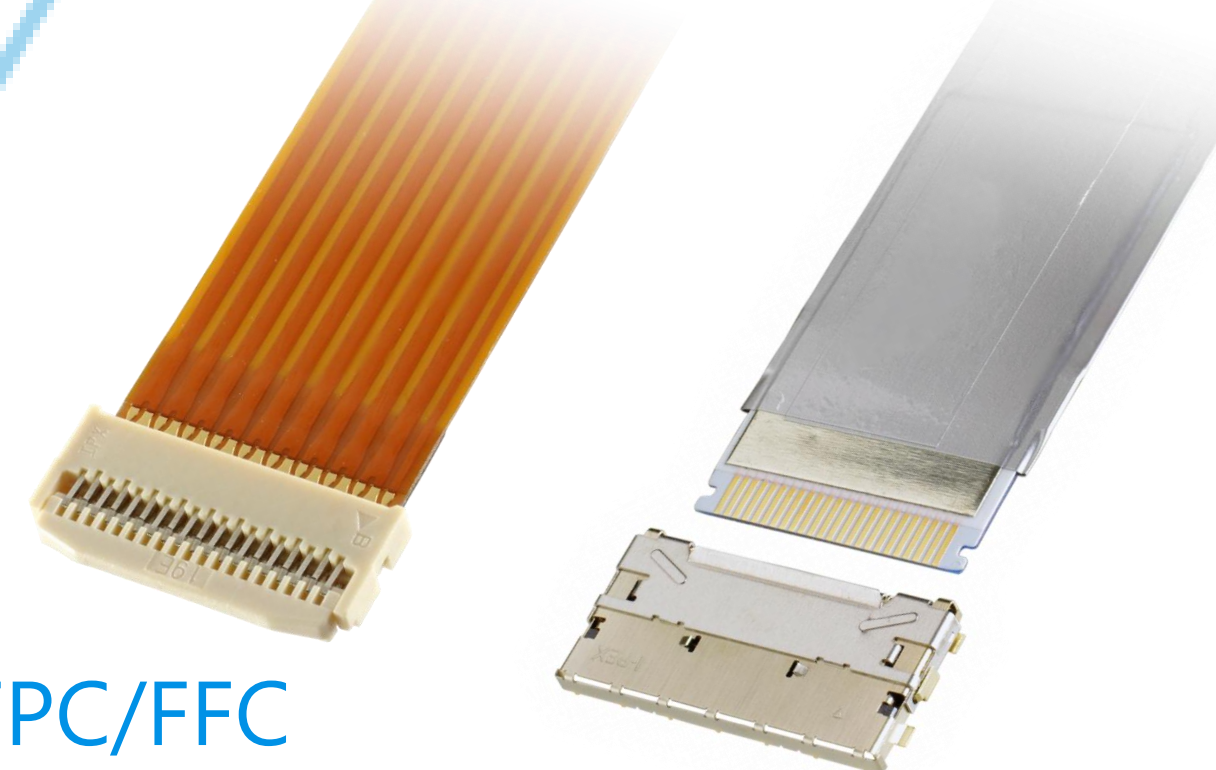


I/O Connectors



MINIDOCK™ series

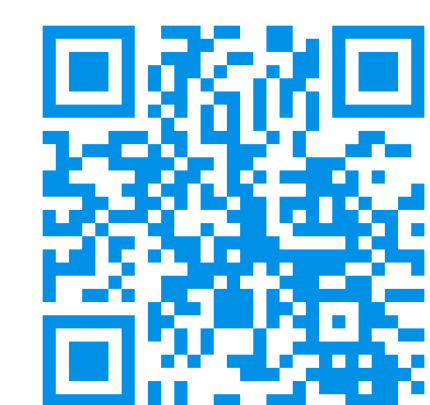
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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