

MINIFLEX® 3-BFN L-HD

Robust design with hold-down feature, long actuator, low profile (Height 0.9 mm), 0.3 mm pitch, horizontal, backflip

Product Specifications:

Board Pitch		0.3 mm
Wiping Length		Contact A: 0.9 mm
		Contact B: 0.45 mm
Size	Height	0.90 +/- 0.10 mm
	Width	1.5 + (0.3 x pin count) mm
	Depth	Open: 2.55 mm
Close: 3.5 mm		
Pin Counts	Range	15 to 75
	Available	51

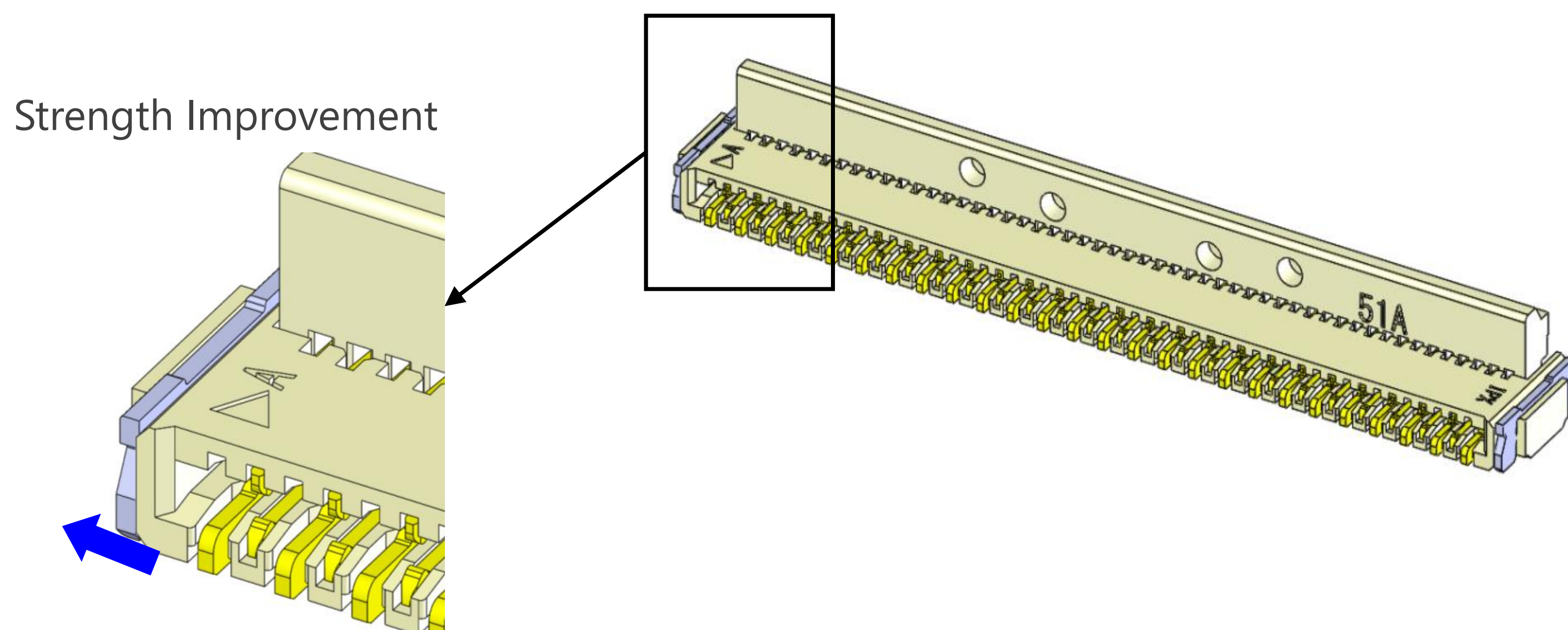
Applicable FPC/FFC:

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

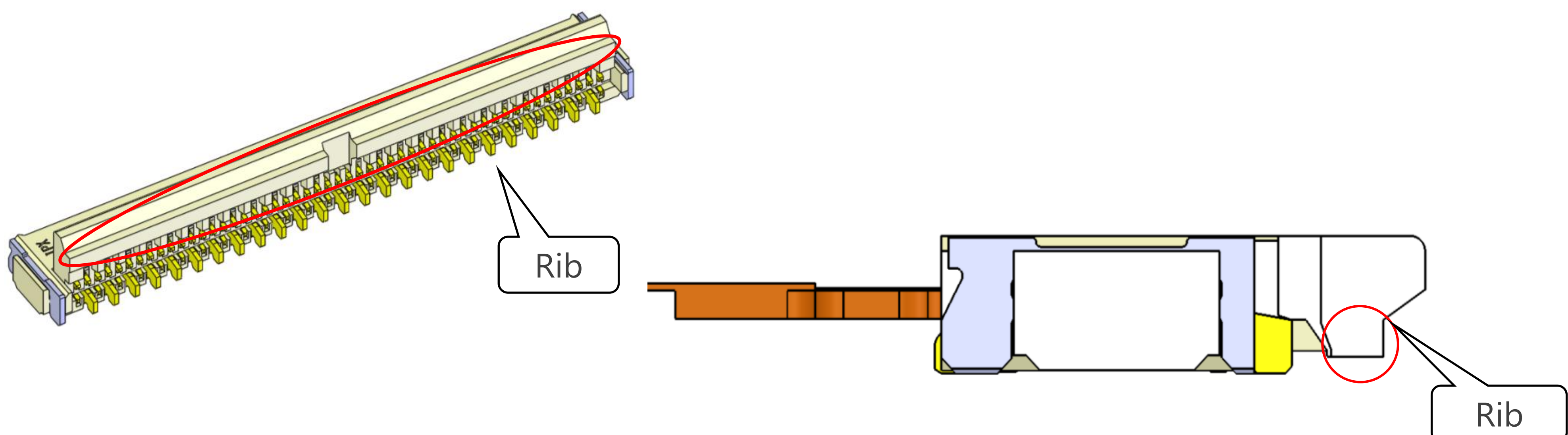
* Please inquire for pin counts not listed or outside of the pin count range.



► Hold-down feature improves strength of side wall



► Designed to prevent contact distortion

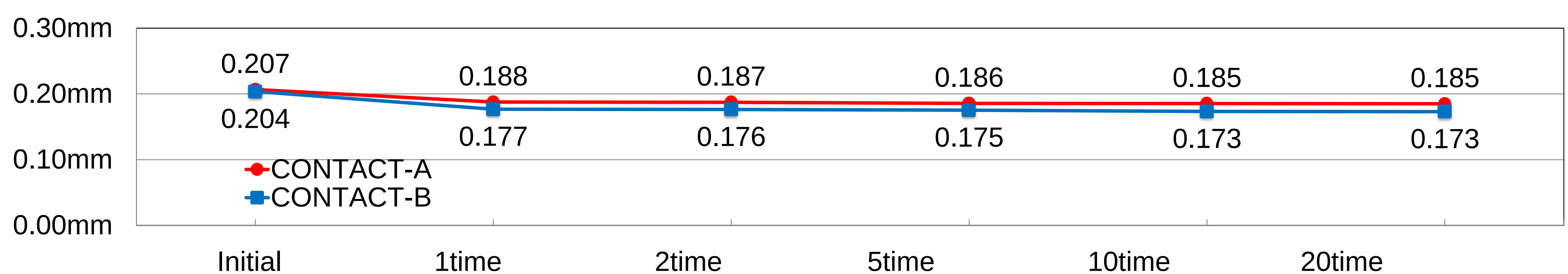


When opening the actuator, the rib will prevent the contacts from being pulled up

► 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).

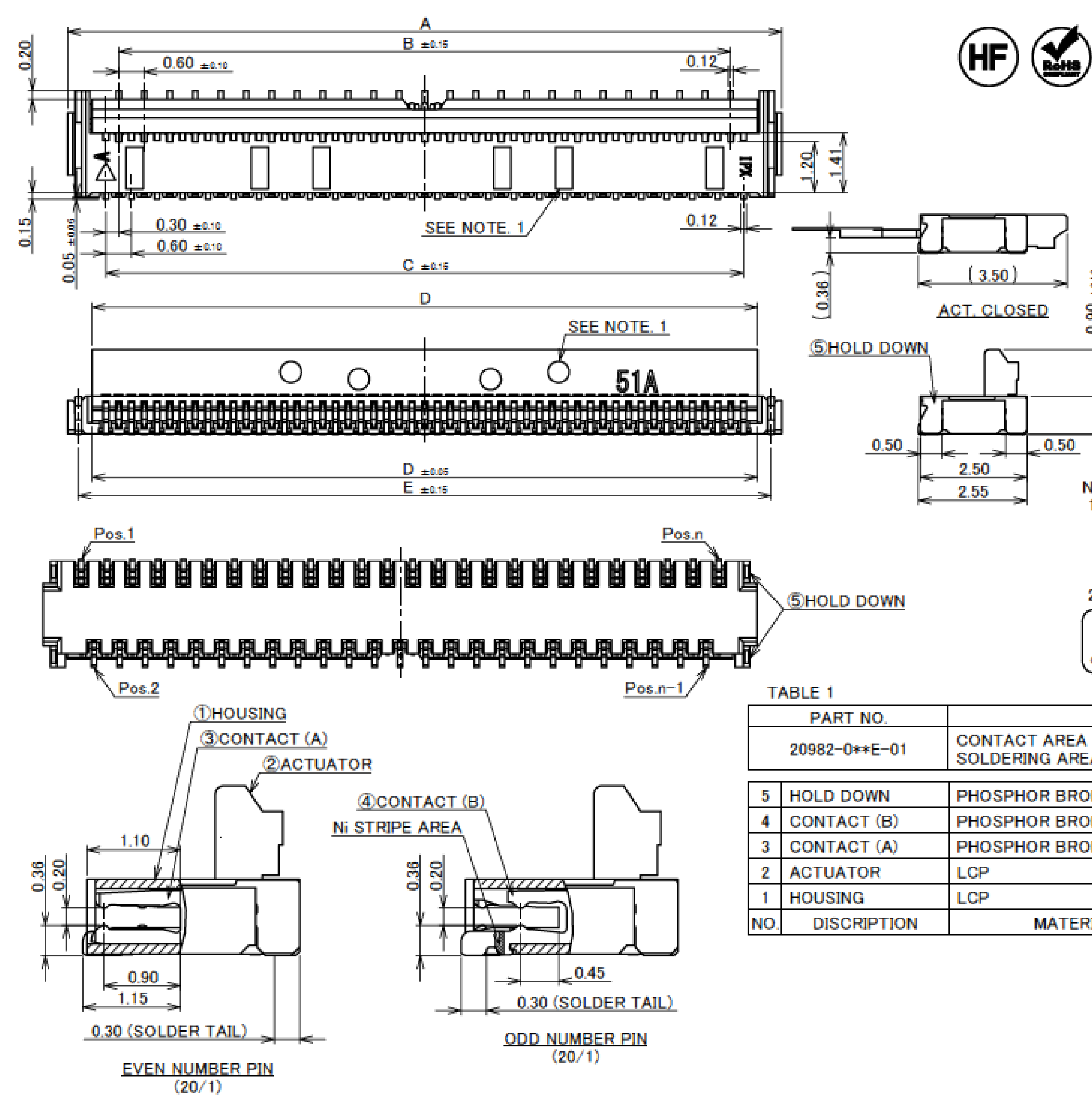


- Insertion force of connector goes up
- Retention force of connector does not change greatly

Component Parts Details

Connector Assembly

Recommended P/N 20982-0**E-01



PART NO.	Pos.	A	B	C	D	E
◆20982-015E-01	15P	6.00	3.60	4.20	4.85	5.50
◆20982-033E-01	33P	11.40	9.00	9.60	10.25	10.90
◆20982-035E-01	35P	12.00	9.60	10.20	10.85	11.50
◆20982-037E-01	37P	12.60	10.20	10.80	11.45	12.10
◆20982-039E-01	39P	13.20	10.80	11.40	12.05	12.70
◆20982-041E-01	41P	13.80	11.40	12.00	12.65	13.30
◆20982-045E-01	45P	15.00	12.60	13.20	13.85	14.50
◆20982-049E-01	49P	16.20	13.80	14.40	15.05	15.70
20982-051E-01	51P	16.80	14.40	15.00	15.65	16.30
◆20982-055E-01	55P	18.00	15.60	16.20	16.85	17.50
◆20982-057E-01	57P	18.60	16.20	16.80	17.45	18.10
◆20982-061E-01	61P	19.80	17.40	18.00	18.65	19.30
◆20982-065E-01	65P	21.00	18.60	19.20	19.85	20.50
◆20982-067E-01	67P	21.60	19.20	19.80	20.45	21.10
◆20982-071E-01	71P	22.80	20.40	21.00	21.65	22.30
◆20982-075E-01	75P	24.00	21.60	22.20	22.85	23.50

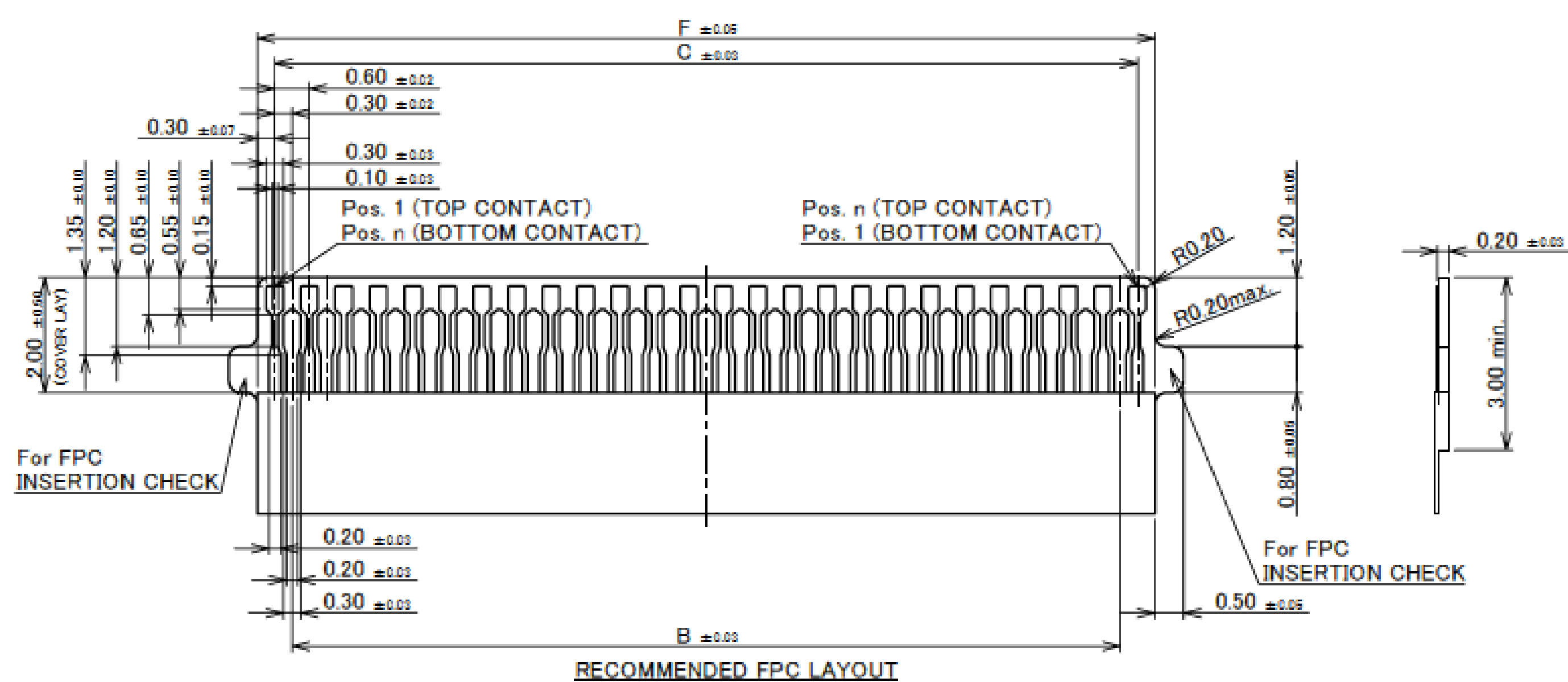
◆MARK MEANS NOT AVAILABLE.

NOTES:
1. THIS DENT SHAPE IS PURPOSED FOR GOOD INJECTION QUALITY.
THIS DENT SHAPE WILL NOT AFFECT CONNECTR FUNCTION.
DENT SHAPE SHOWN ON DRAWING IS JUST FOR REFERENCE.
DENT SHAPE AND QUANTITY MIGHT CHABGE FROM DIFFERENT
PIN COUNT AND DIFFERENT TOOLING.
2. CONTACT POINT: TOP AND BOTTOM CONTACT

CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL
NO. HIM-12007 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

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.	DISCRIPTION	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 : PI

CONDUCTOR : COPPER(RARE)

BASE FILM : PI

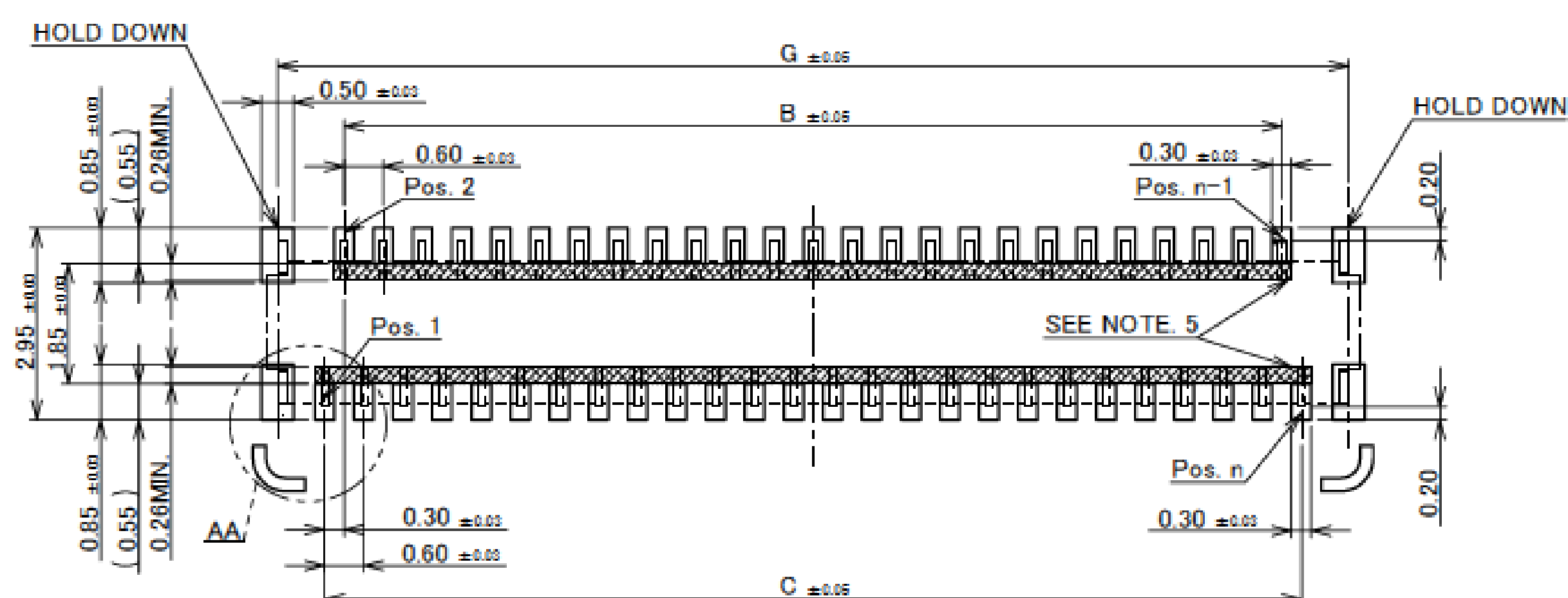
STIFFENER : PI
ADHESIVE : THERMOSETTING A

ADHESIVE: THERMOSETTING ADHESIVE

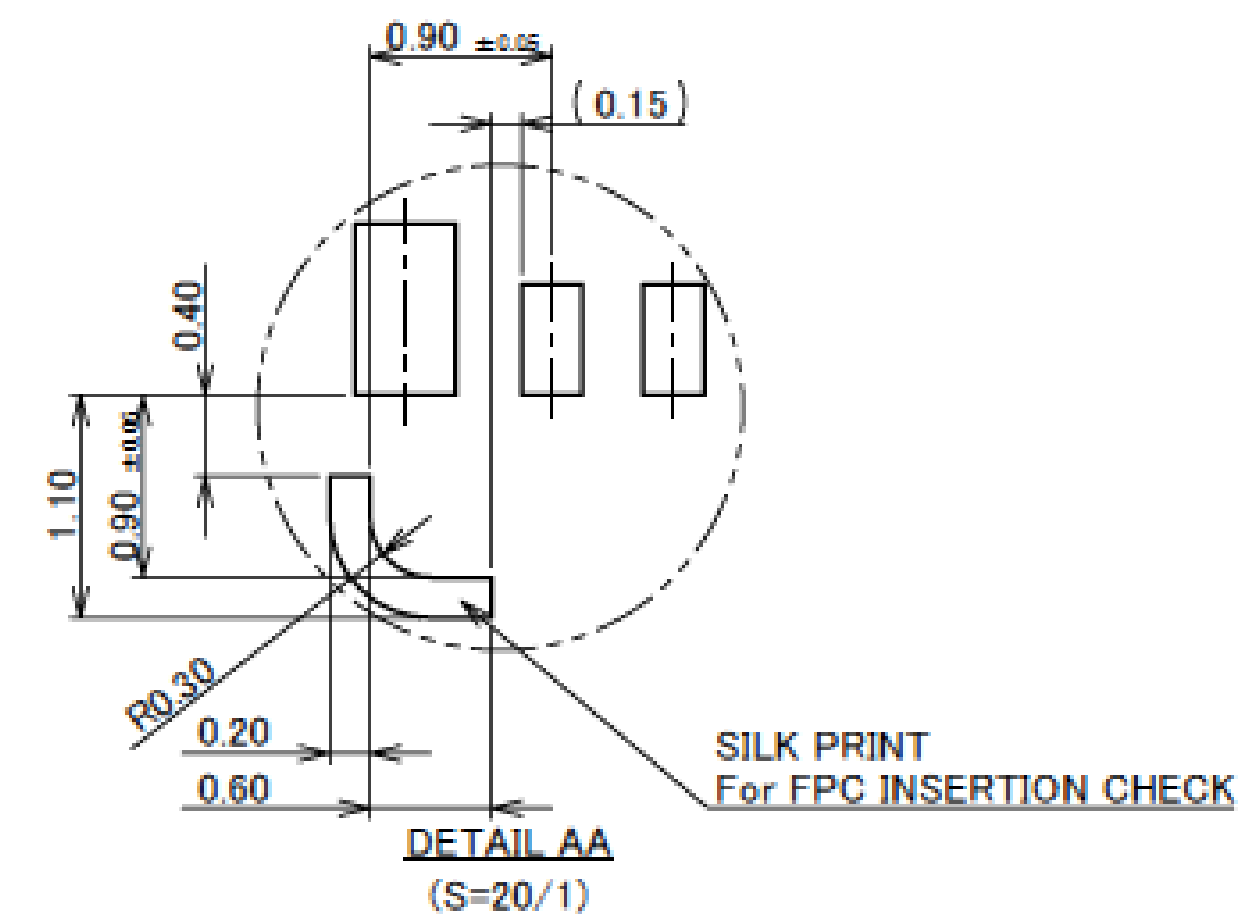
4. FINISH

Au OVER Ni UNDER PLATING.

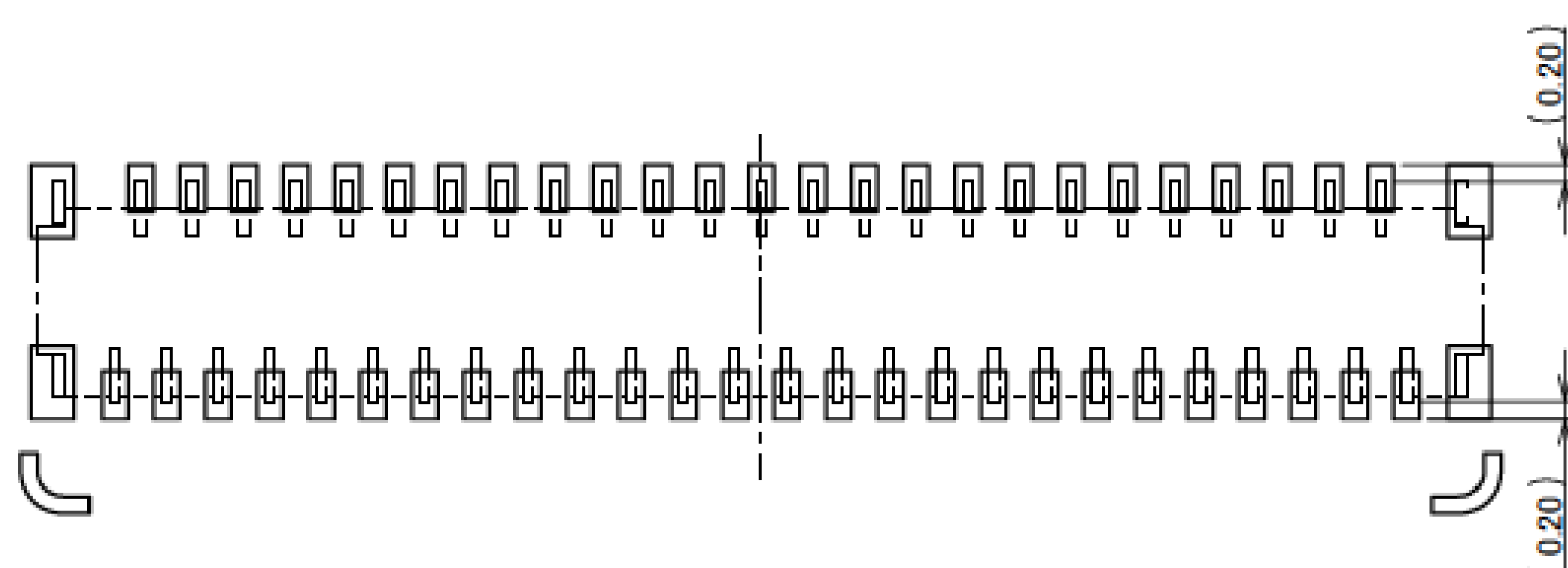
5. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



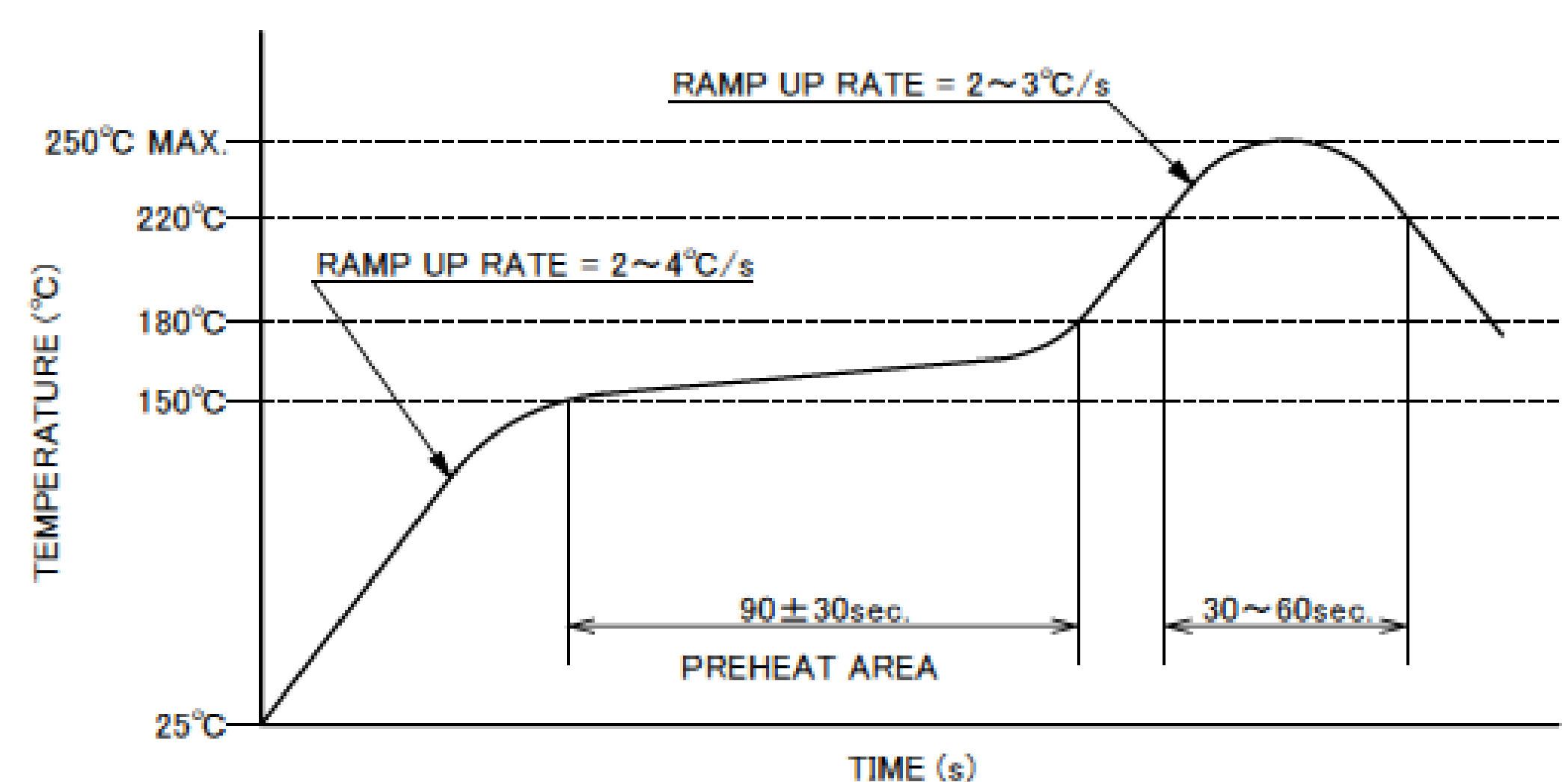
RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : $t=0.12\text{mm}$



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

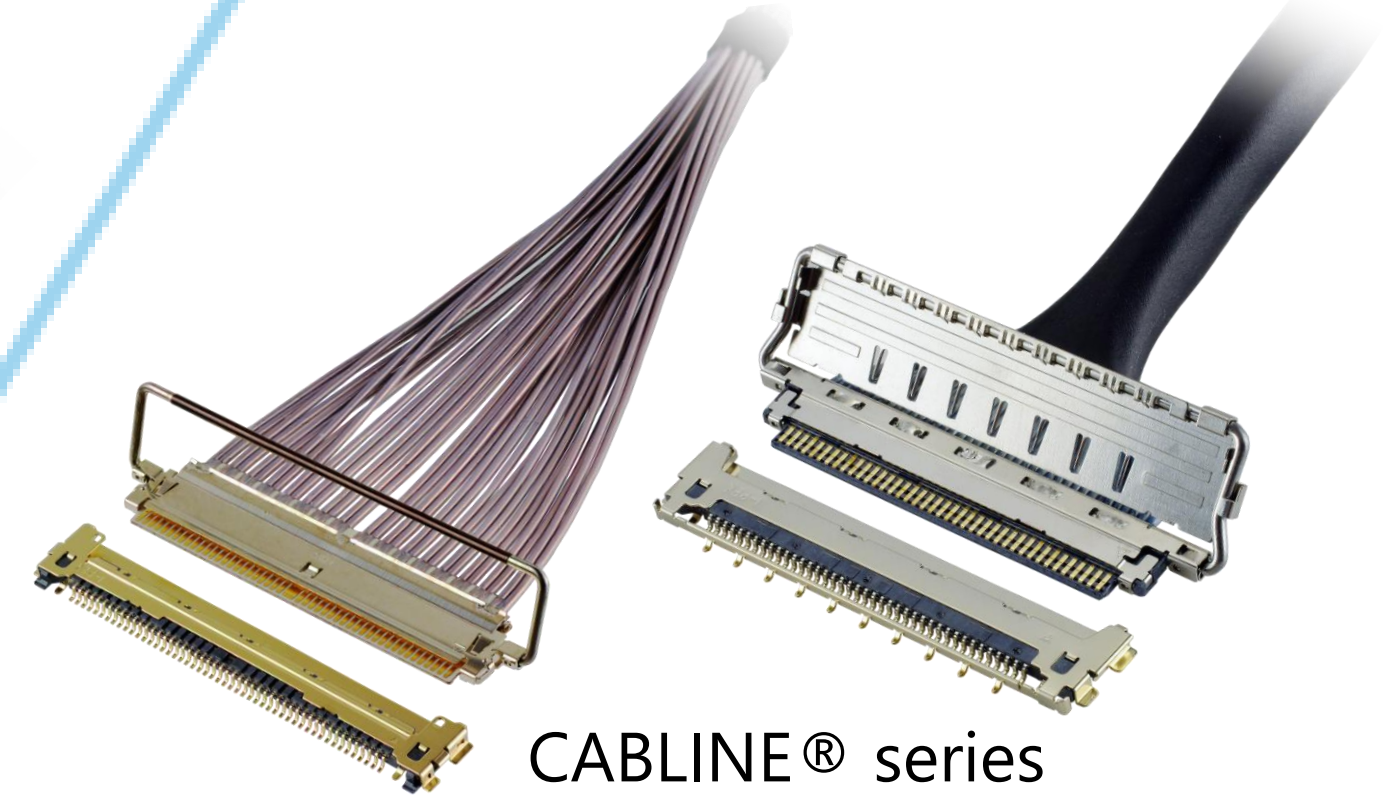
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K (-40℃~+85℃)
OPERATING HUMIDITY	20~80%RH (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC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

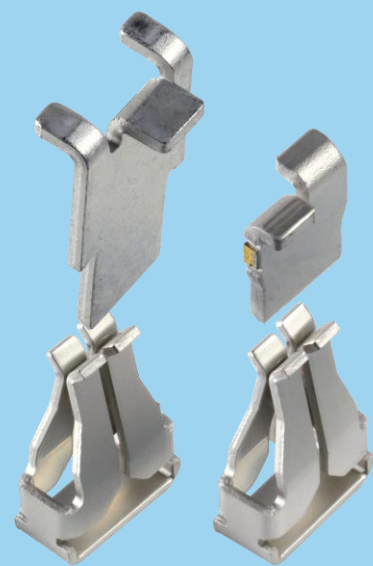


Micro-Coaxial/Twinaxial Connectors

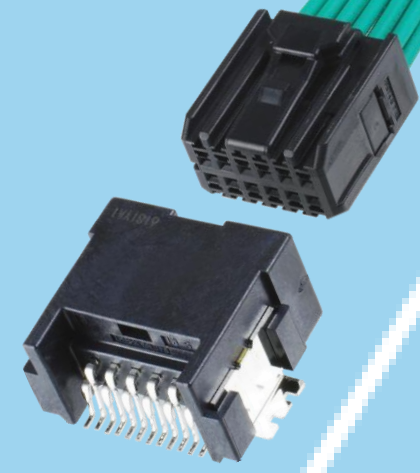


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



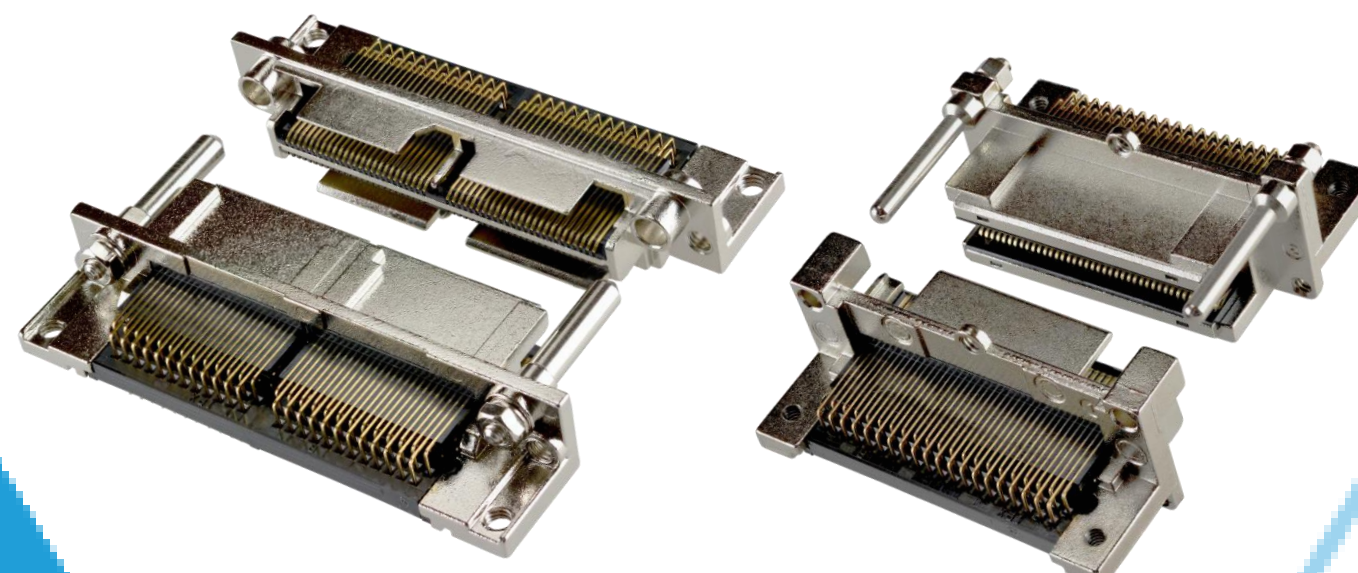
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

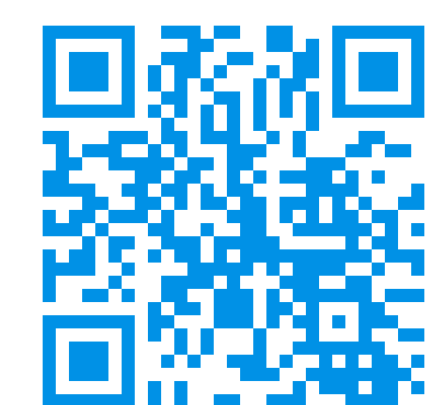
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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