

# MINIFLEX® 3-BFN L-HD

Hold down設計, 加長鋼琴蓋, 低背(高度 = 0.9 mm) · 0.3 mm間距, 水平插拔, 後鎖式

## Product Specifications:

Board Pitch (mm)	0.3
Wiping Length (mm)	Contact A:0.9
	Contact B:0.45
Size (mm)	Height 0.90 +/- 0.10
	Width Formula:1.5 + (0.3*?p)
	Depth Open:2.55 Close:3.5
Pin counts	Range 15-75 (odd)
	Available 51

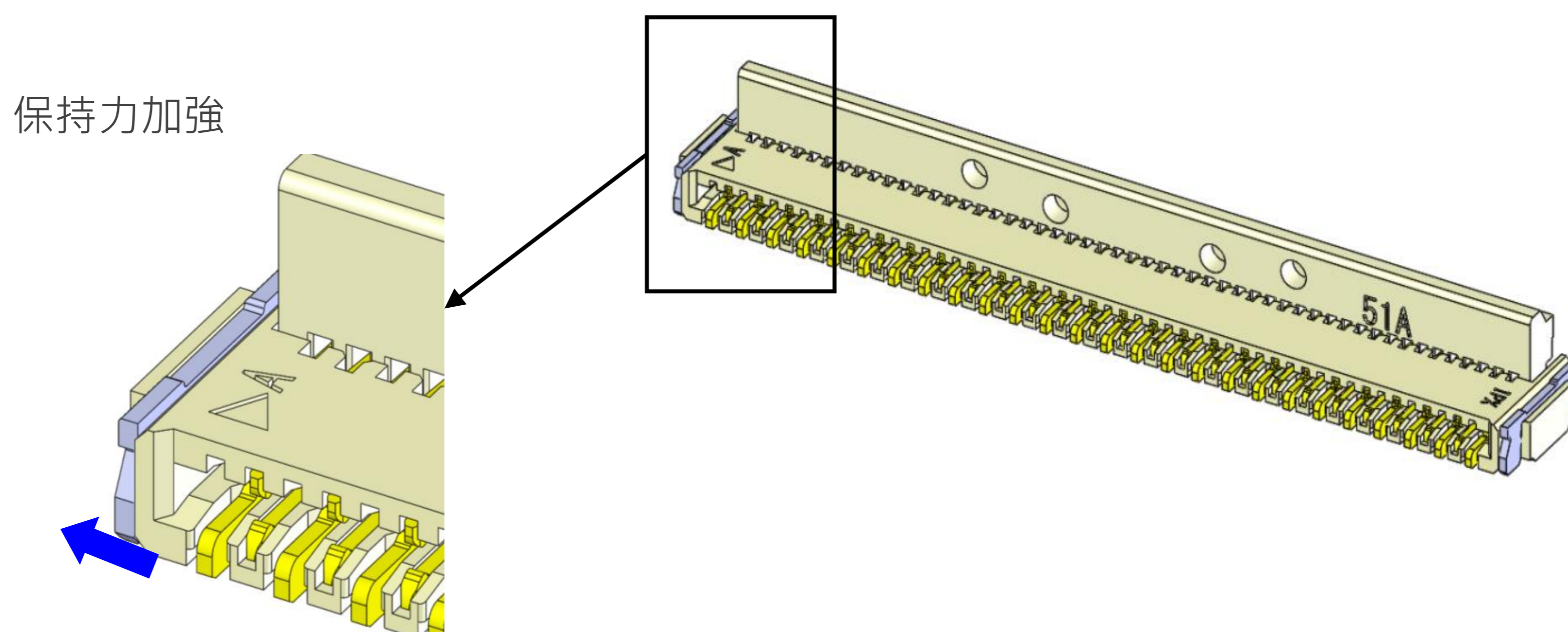
## Applicable FPC/FFC:

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

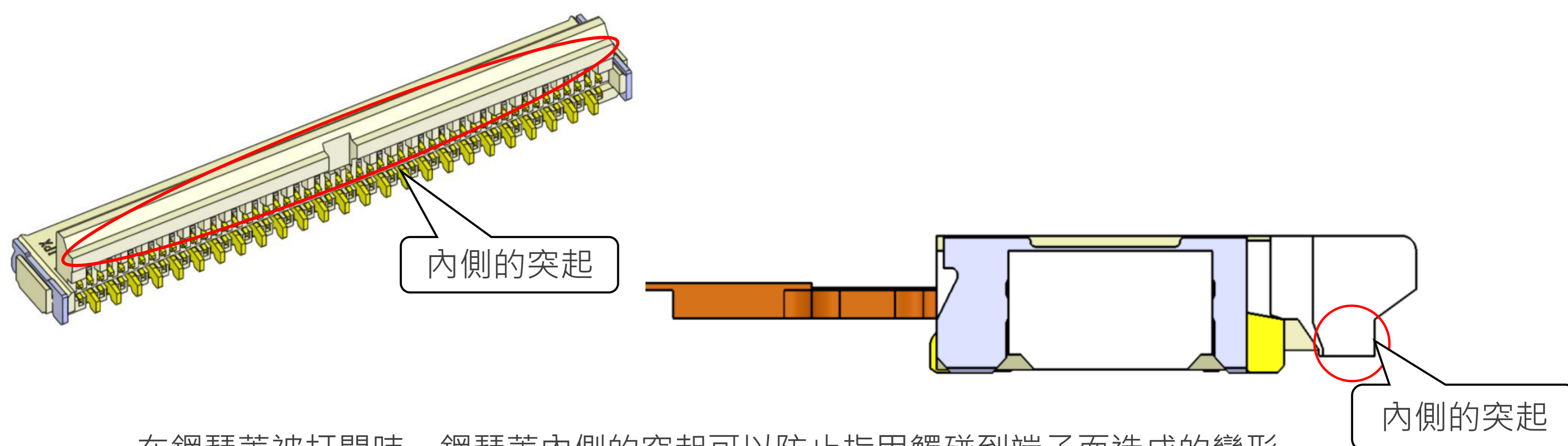
\*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。



## ► Hold down 設計加強側壁力度



## ► 防止端子變形的結構

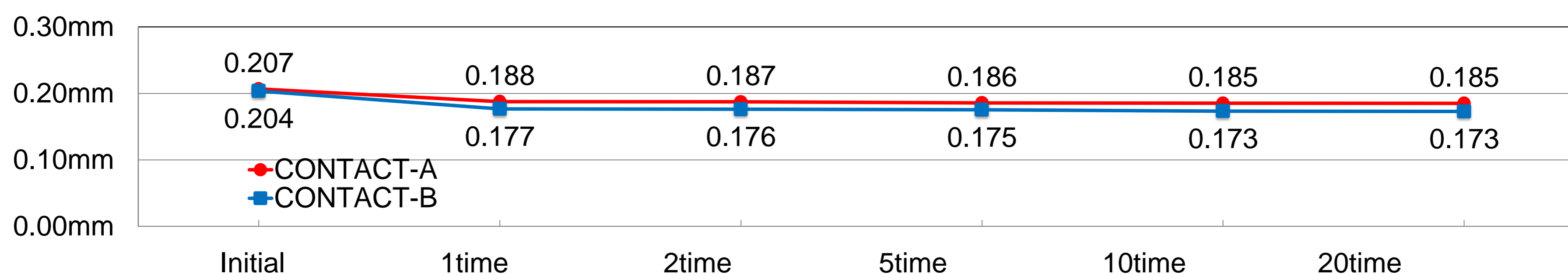


在鋼琴蓋被打開時, 鋼琴蓋內側的突起可以防止指甲觸碰到端子而造成的變形

## ► 在沒有插入FPC的情況下關閉鋼琴蓋, 連接器仍可使用

在 SMT 加工後, 如果鋼琴蓋在沒有插入 FPC 的情況下意外閉合, 連接器仍可使用

■ FPC 未插入情況下閉合鋼琴蓋, 其前後的接點間距離比較如圖 (圖表為 MINIFLEX® 3-BFN L-HD 51 pins)



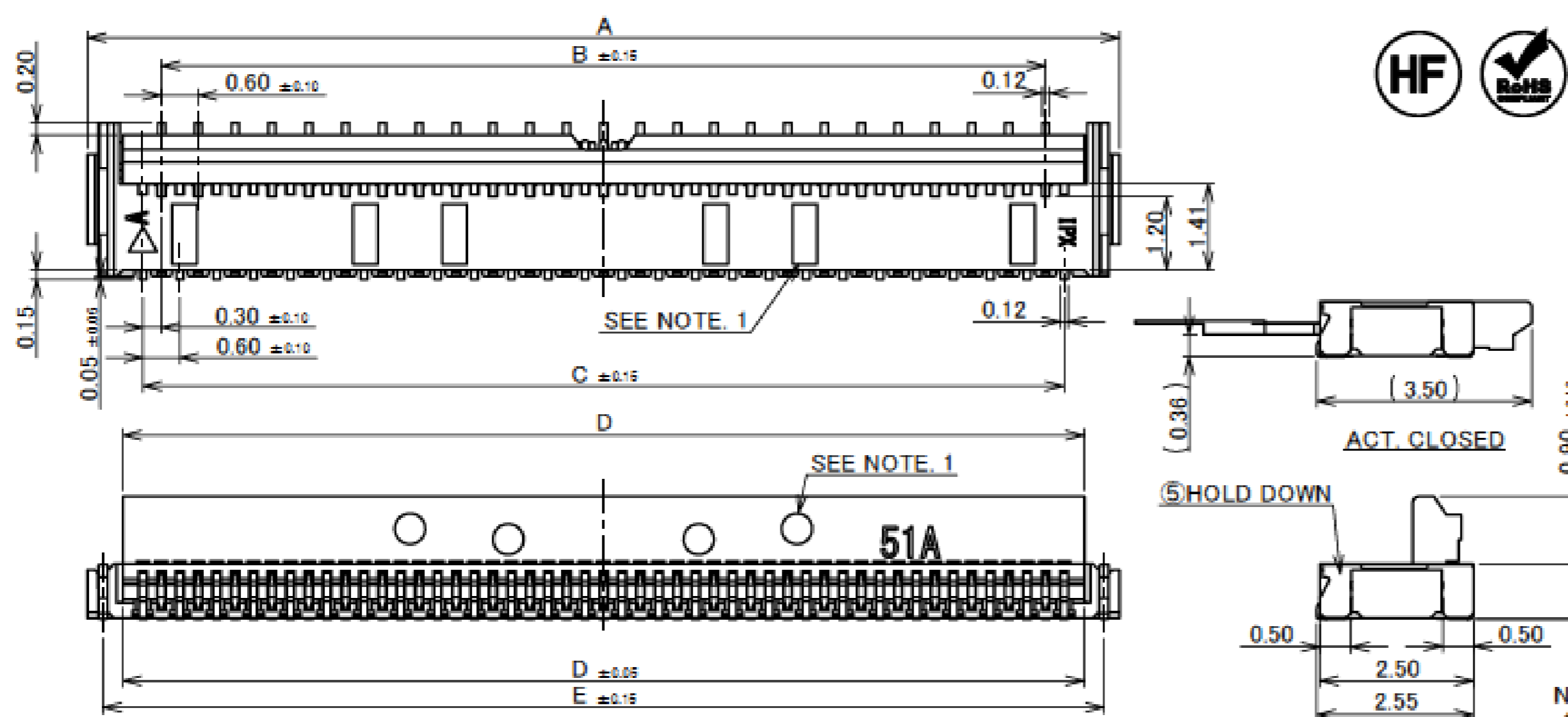
■ FPC插入力上升

■ FPC保持力無太大變化

# 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.

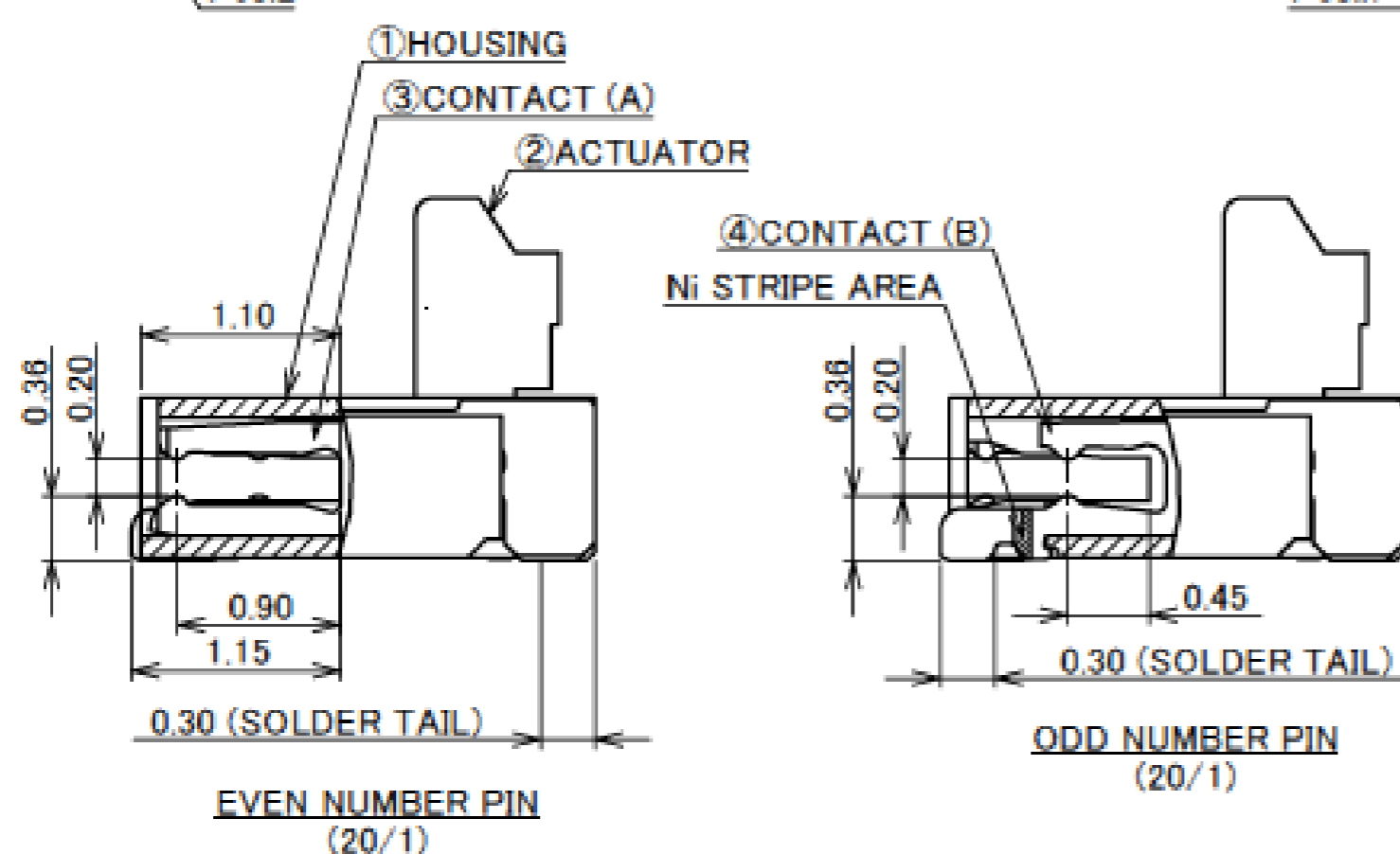
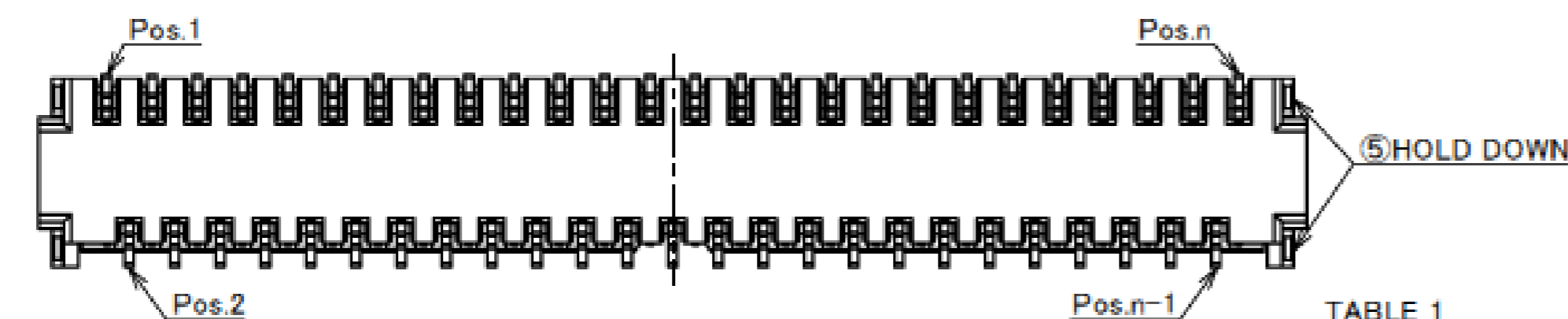
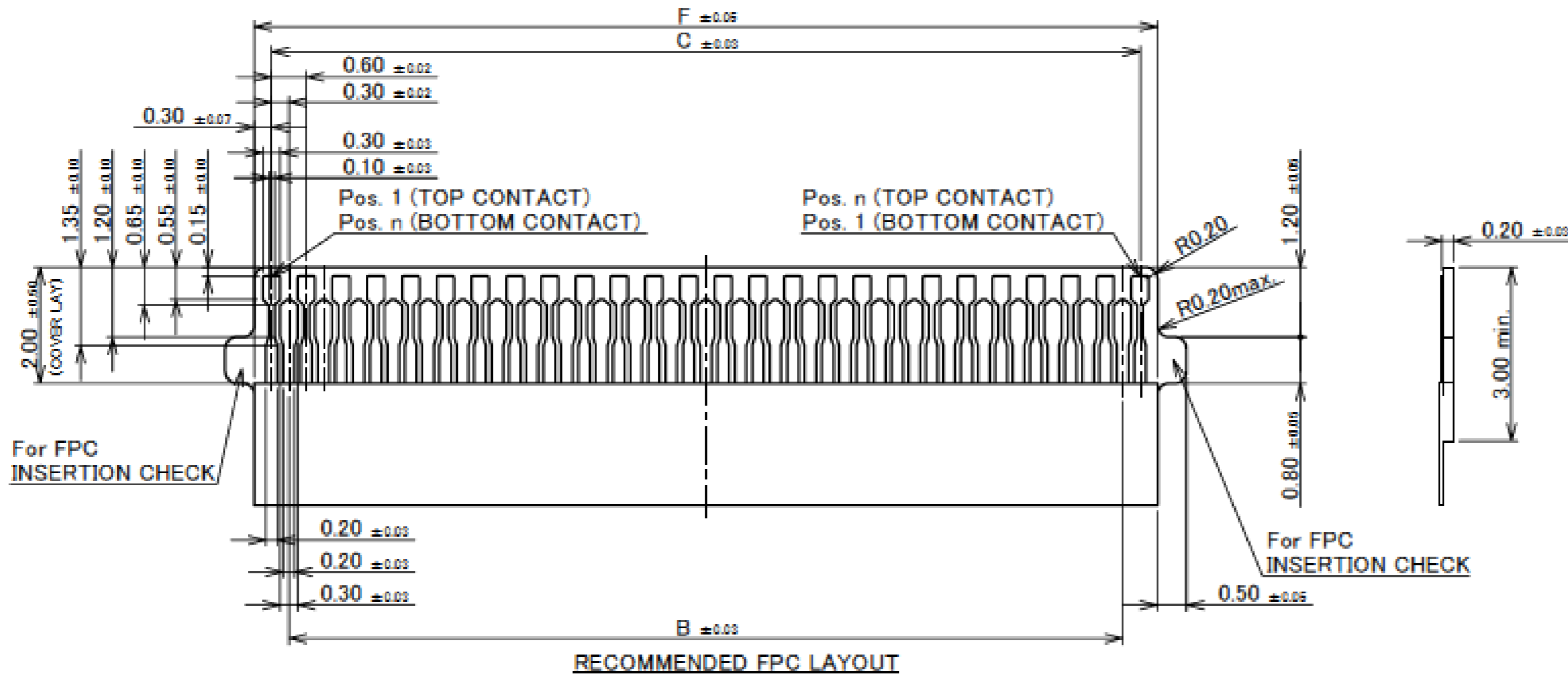


TABLE 1

NO.	DISCRIPTION	MATERIAL	FINISH	
				REMARKS
	20982-0**E-01		CONTACT AREA : Au 0.10 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.	
5	HOLD DOWN	PHOSPHOR BRONZE	Sn 2~6 μm MIN. OVER Ni 1.00 μm 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	

# 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.

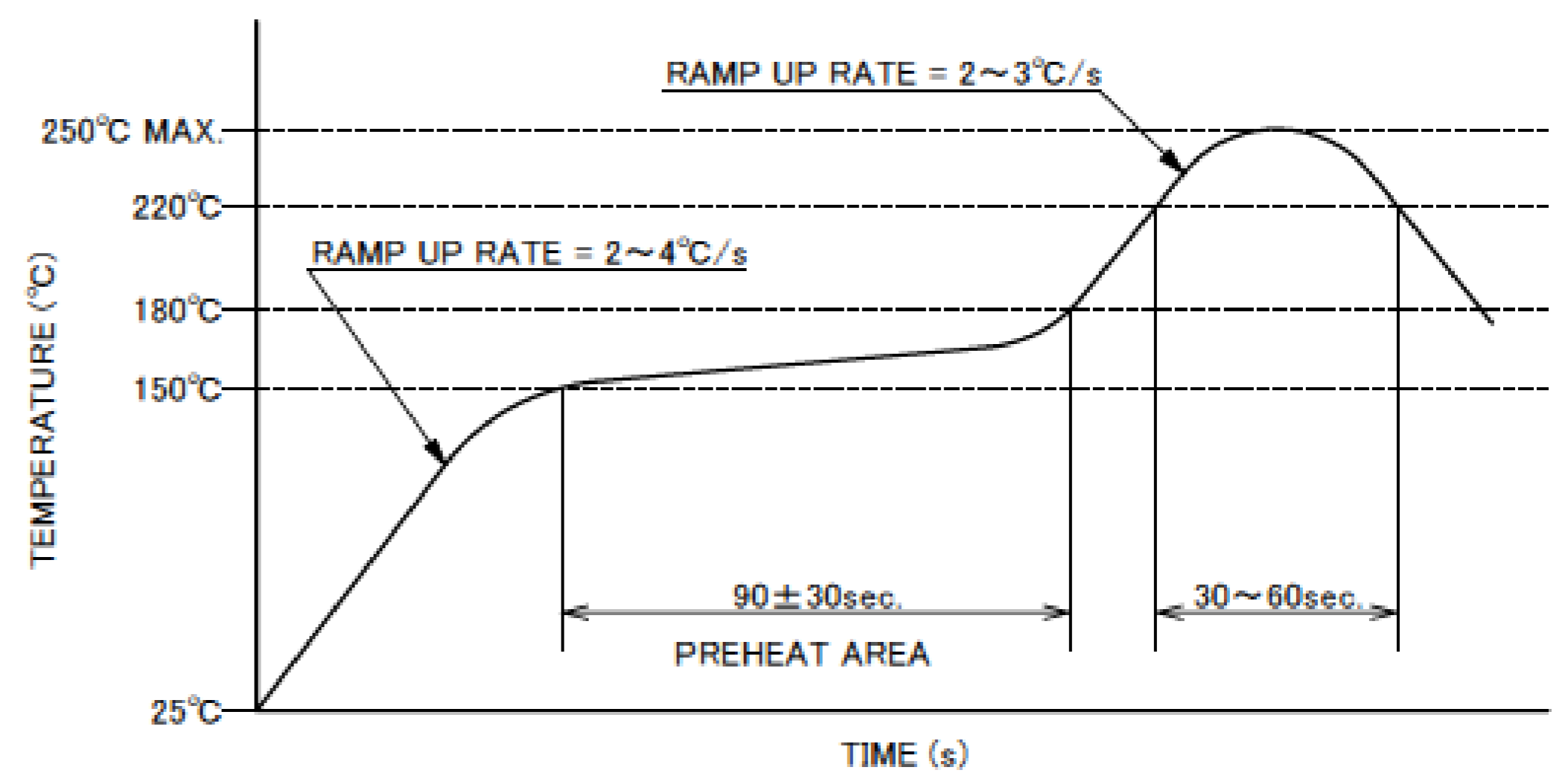
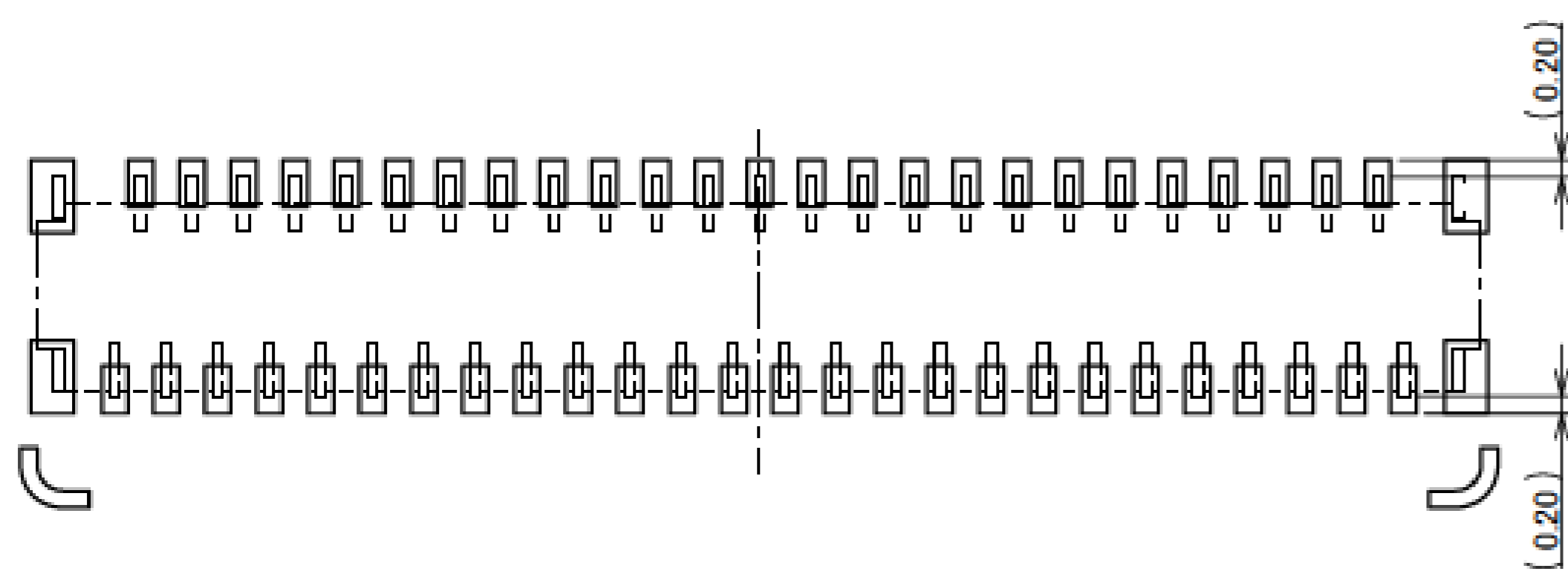
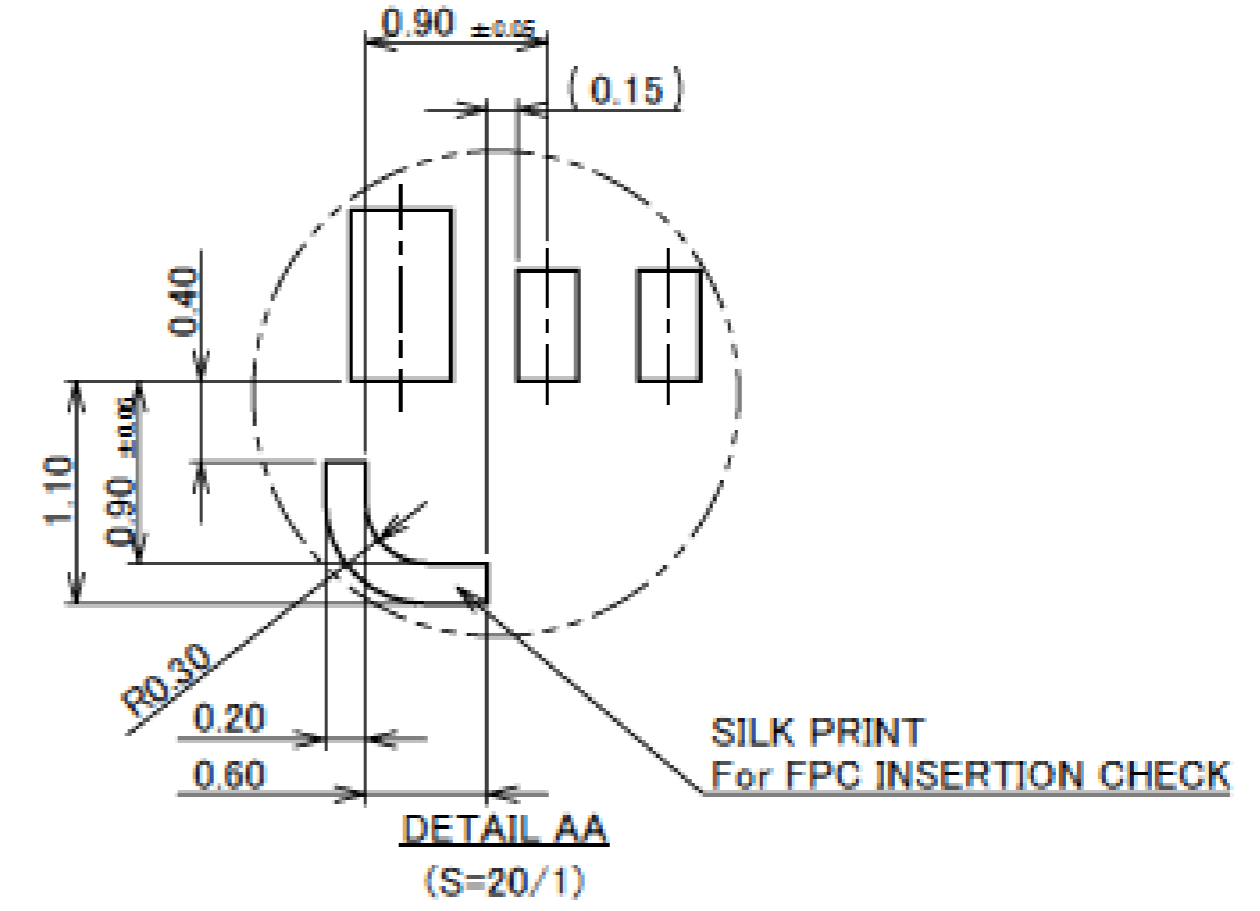
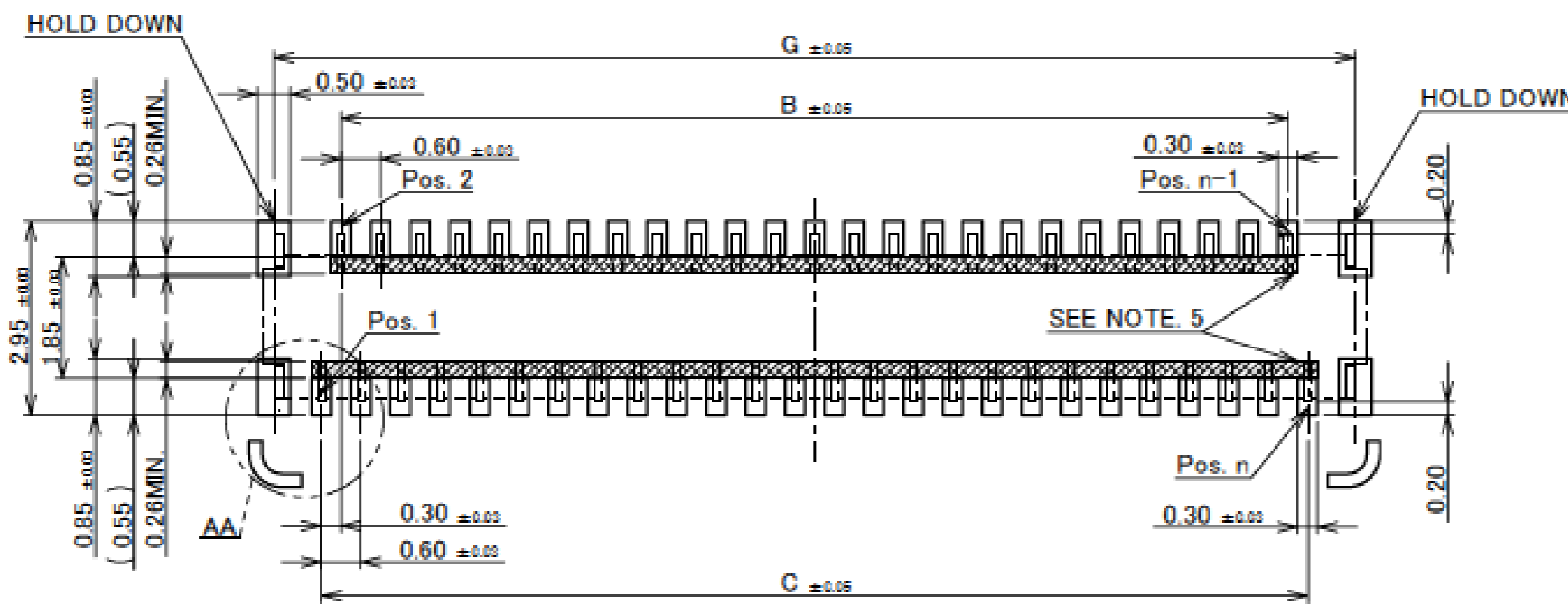
3. MATERIAL

- COVER FILM : PI
- CONDUCTOR : COPPER(RARE)
- BASE FILM : PI
- STIFFENER : PI
- ADHESIVE : THERMOSETTING ADHESIVE

4. FINISH

Au OVER Ni UNDER PLATING.

- 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 : $\triangleleft$ 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) $\times$ n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) $\times$ n MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) $\times$ n MIN. / AFTER TEST: 0.10N (10gf) $\times$ 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


Rev.0

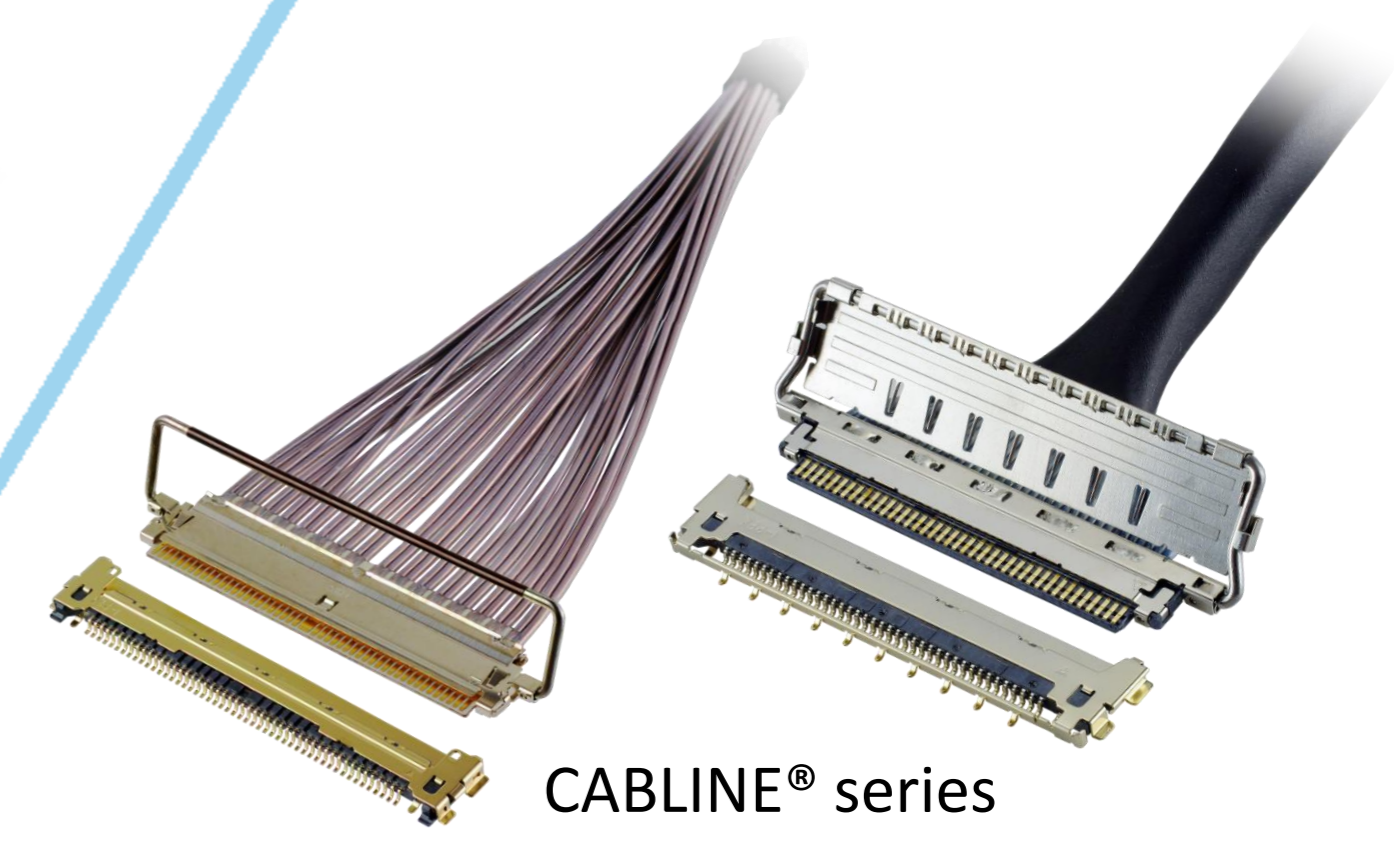
# Custom Connectors Available

 RF Connector

MHF® series



 CABLINE® series  
Micro-coaxial/Twinax/  
Discrete Wire Connector



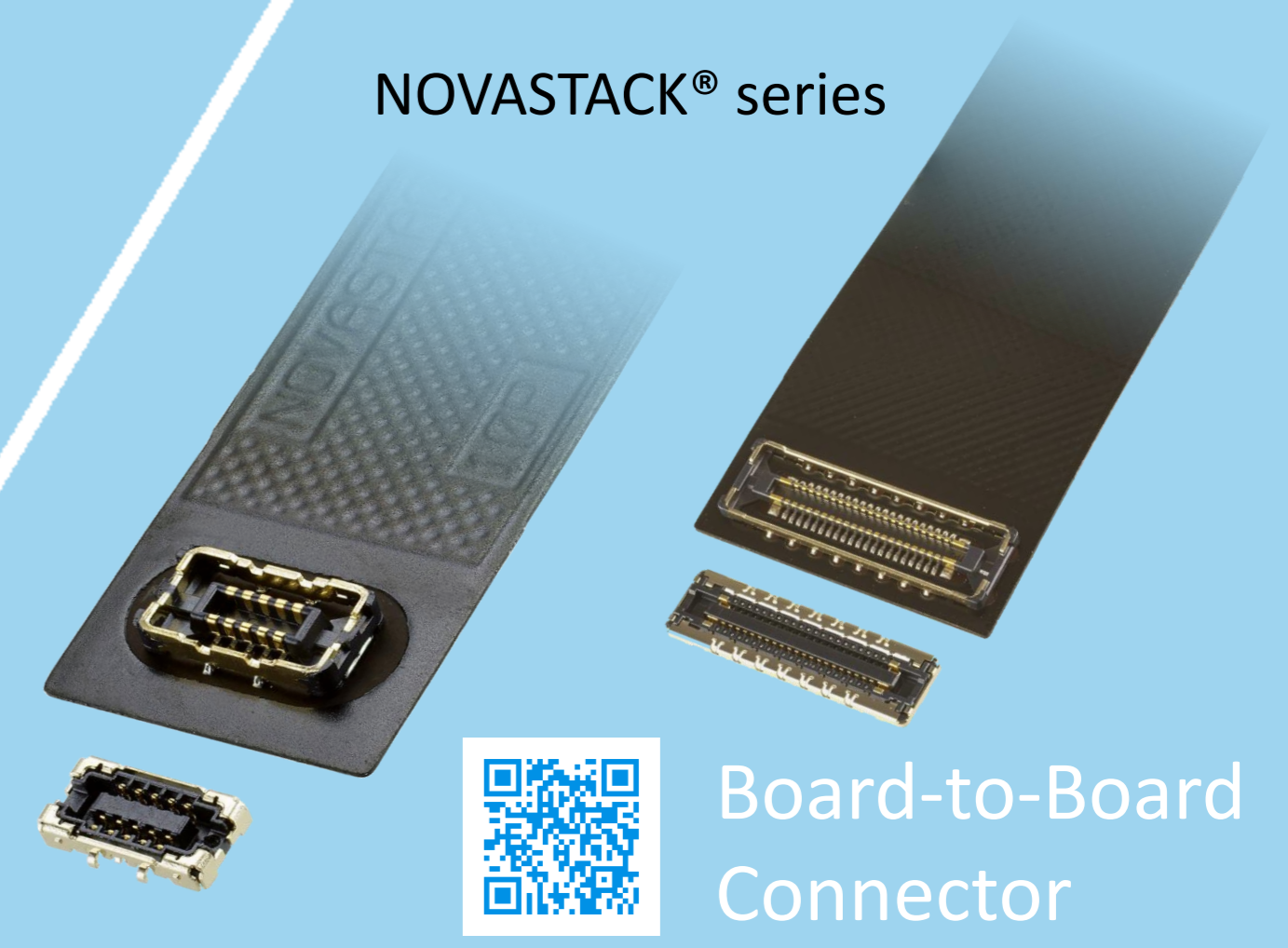
 Optical Module

LIGHTPASS® series



NOVASTACK® series

 Board-to-Board Connector



 Power Connector/  
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series

 FPC FFC Connector

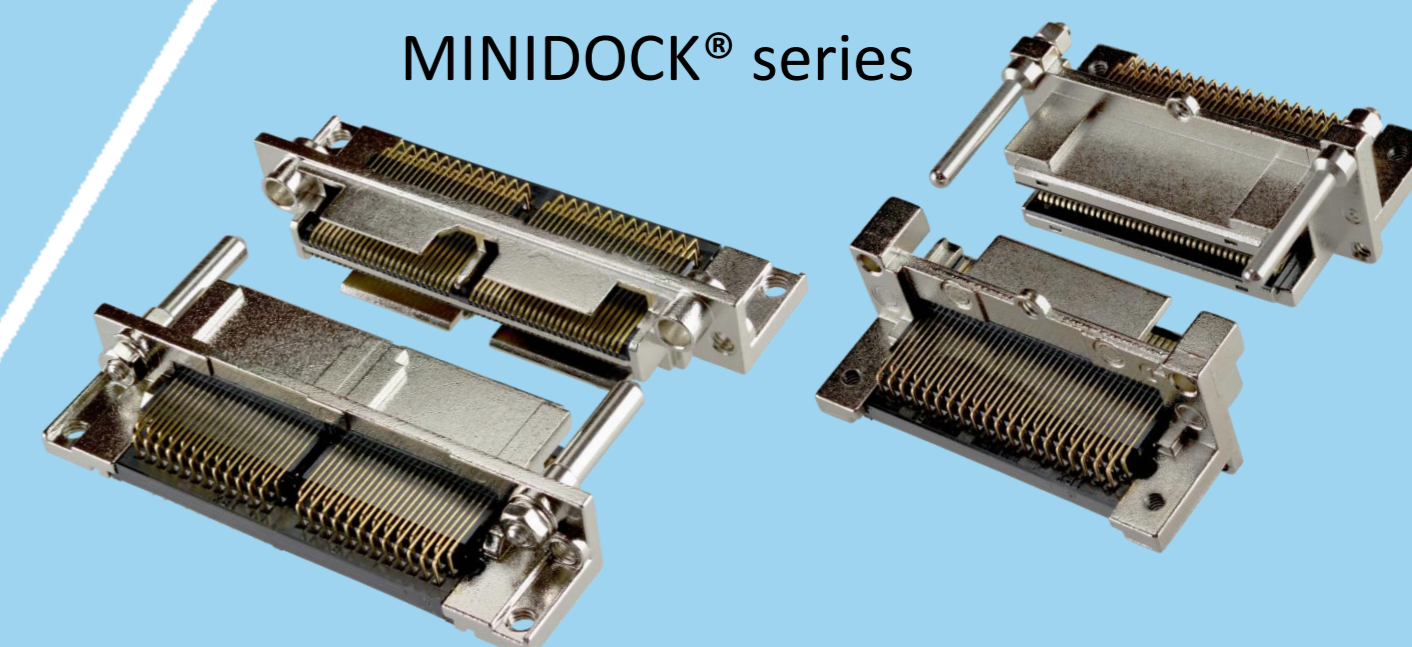


Inquiry



MINIDOCK® series

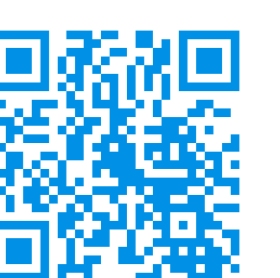
 I/O Connector



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