

MINIFLEX® 3-BFN LK

0.3 mm间距、0.9 mm高度、机械锁扣、水平插拔、后锁式FPC连接器

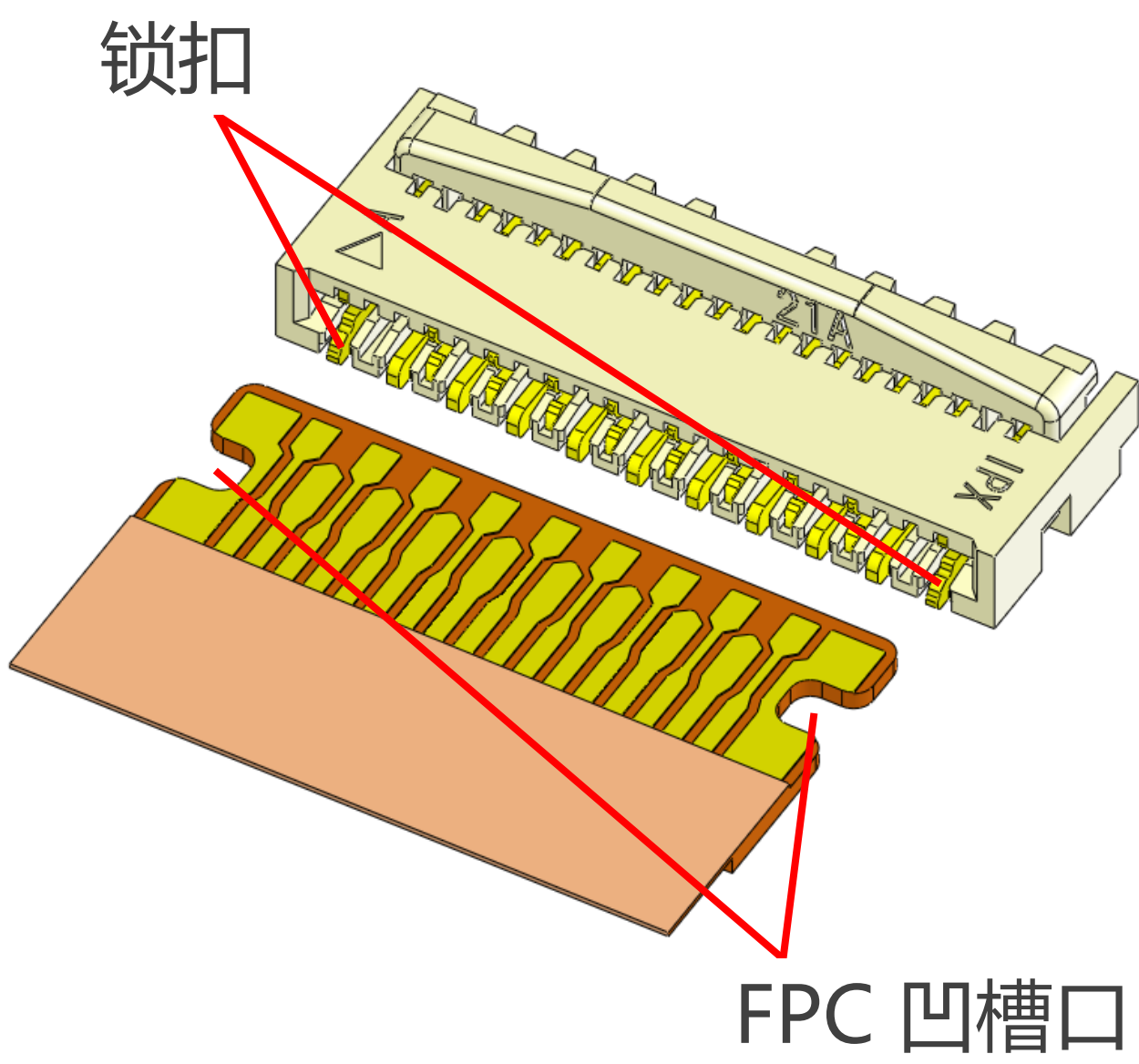
Product Specifications:		Short Actuator	Long Actuator
Contact Pitch		0.3 mm	
Board Pitch		0.6 mm	
Contact Mating Length		Contact A: 0.9 mm Contact B: 0.45 mm	
Mated Size	Height	0.9 +/- 0.1 mm	
	Width	2.1 + (0.3 x pin count) mm	
	Depth	Open: 2.55 mm Close: 3.0 mm	Close: 3.5 mm
Available Pin Count *		9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37	51, 53, 57, 61, 71

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

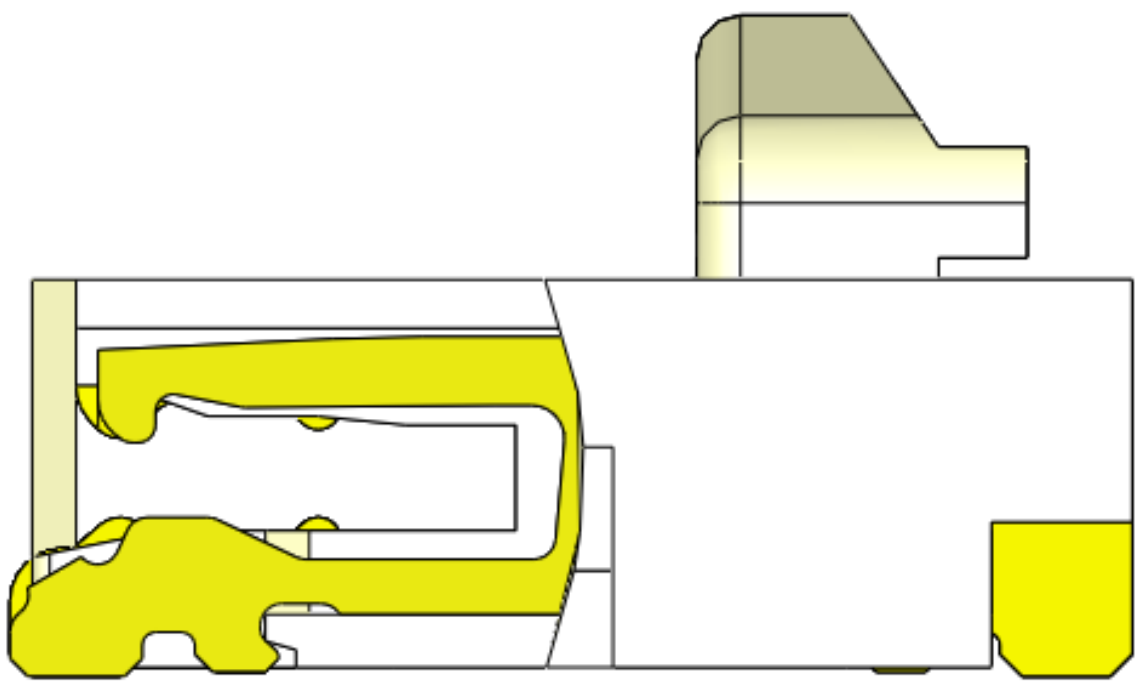
Applicable FPC/FFC:	
FPC / FFC Contact Pitch	0.3 mm
FPC / FFC Contact Point	Top and Bottom
FPC / FFC Thickness	0.2 +/- 0.03 mm



特有机械锁扣提供更大FPC保持力



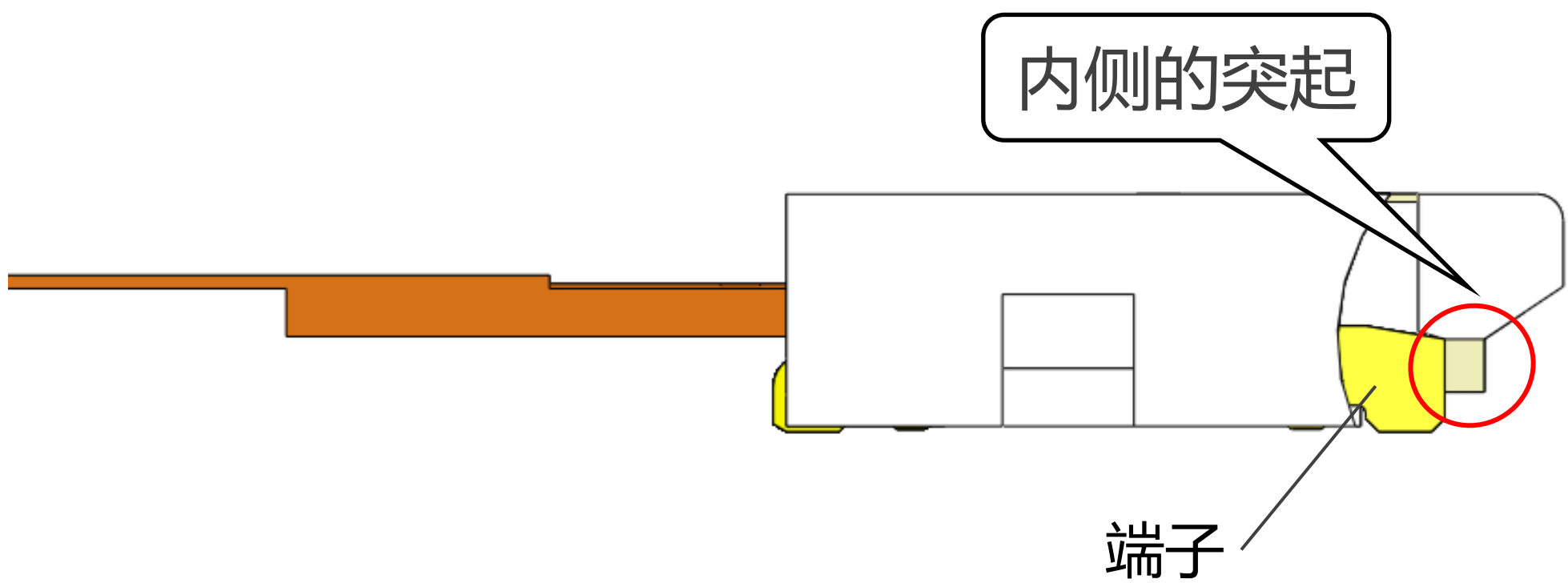
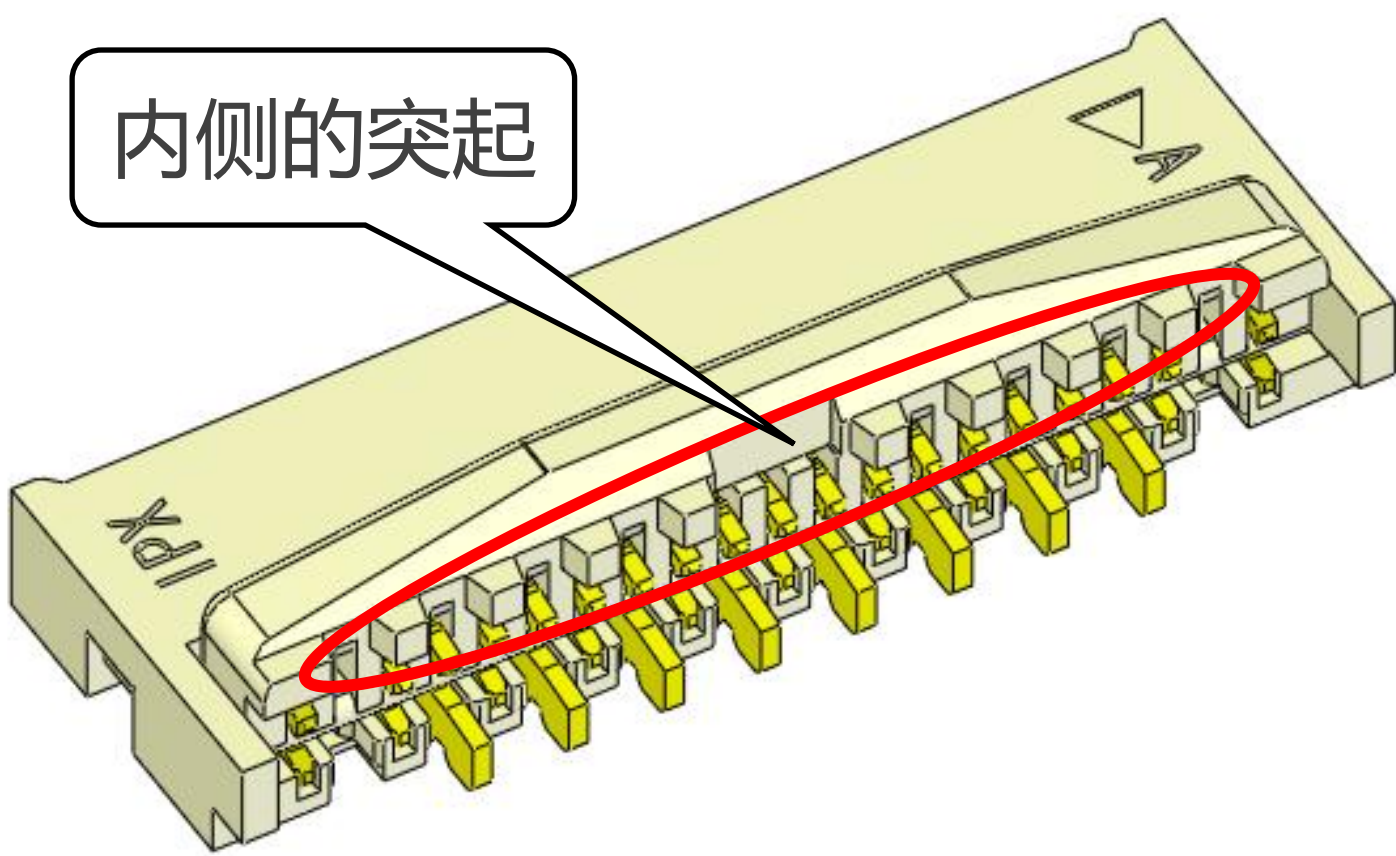
FPC 锁扣机制维持
FPC高保持力



FPC 保持力比较 (19 pin)

MINIFLEX® 3-BFN LK	MINIFLEX® 3-BFN
11.34 N	6.7 N

独特的结构，防止端子变形

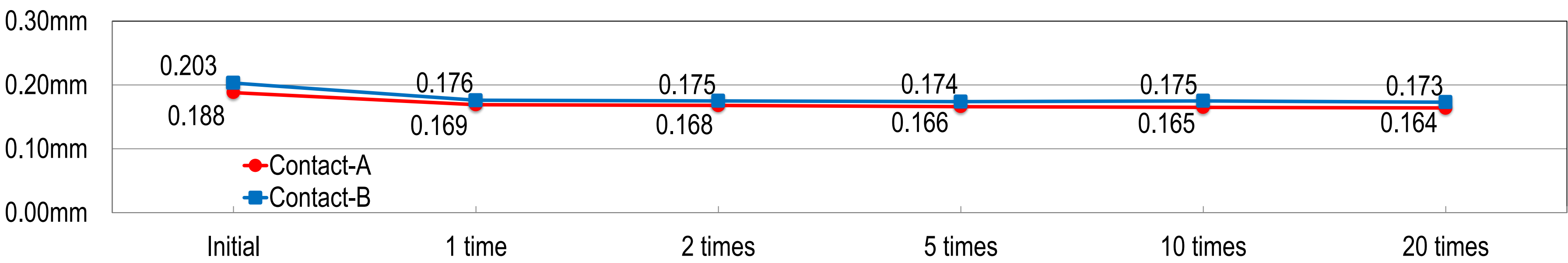


当钢琴盖被打开时,钢琴盖内侧的突起可以防止指甲碰触到端子而造成的变形

在没有插入 FPC 的情况下闭合钢琴盖，连接器仍可使用

在 SMT 加工后，如果钢琴盖在没有插入 FPC 的情况下意外闭合，连接器仍可使用

■ FPC未插入情况下闭合钢琴盖，其前后的接点间距比较如图(图表为 MINIFLEX® 3-BFN LK 35 pins)

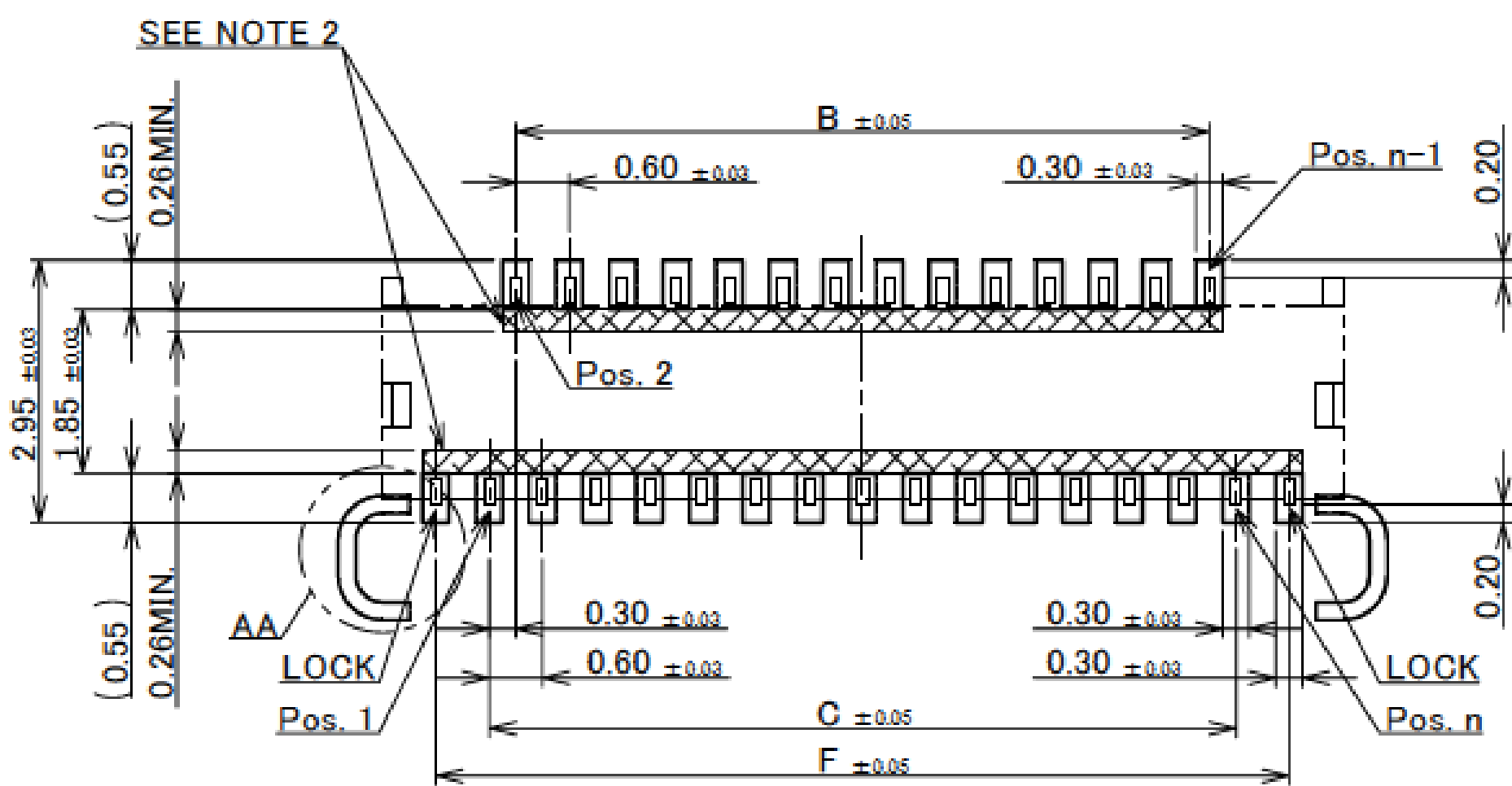
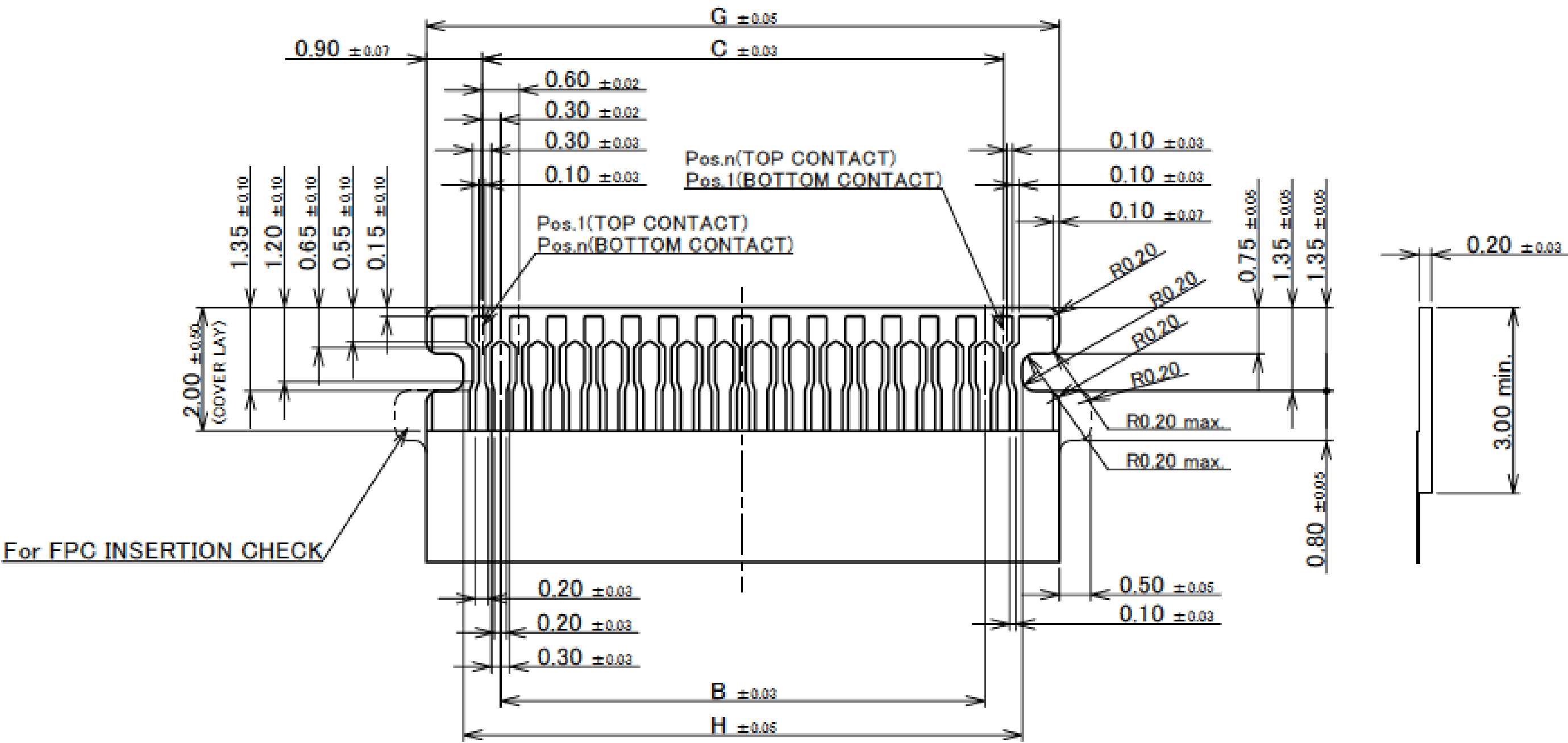


- FPC插入力上升
- FPC保持力无太大变化

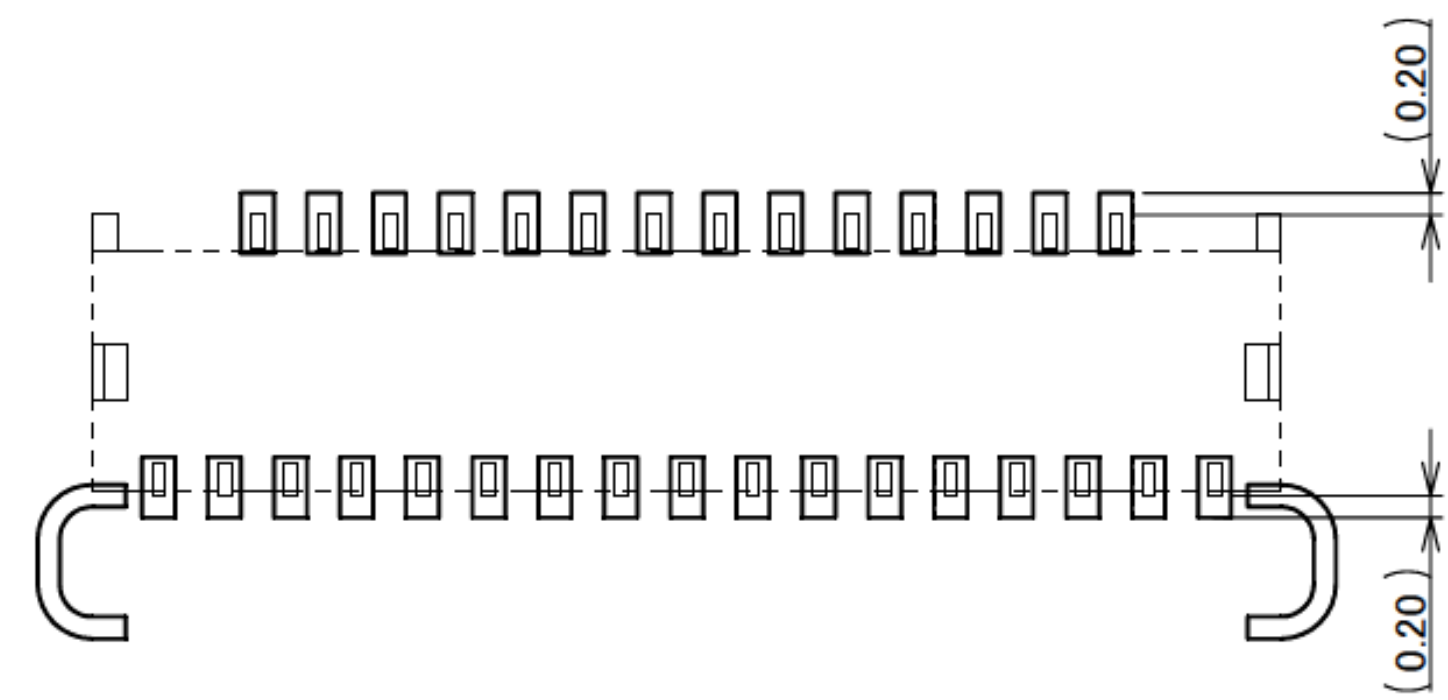
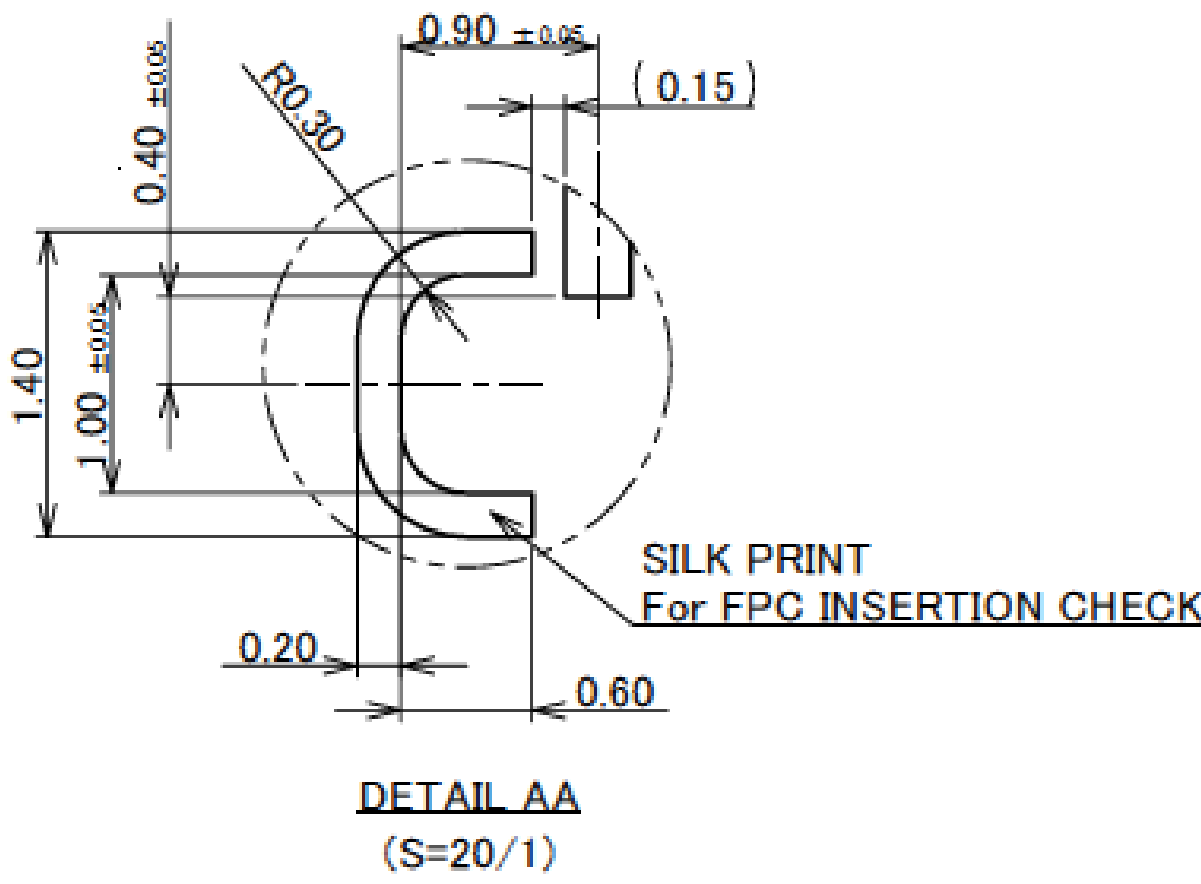
Connector Assembly

PART NO.	Pos.	B	C	F	G	H
20599-009E-01	9P	1.80	2.40	3.60	4.20	3.00
20599-011E-01	11P	2.40	3.00	4.20	4.80	3.60
20599-013E-01	13P	3.00	3.60	4.80	5.40	4.20
20599-015E-01	15P	3.60	4.20	5.40	6.00	4.80
20599-017E-01	17P	4.20	4.80	6.00	6.60	5.40
20599-019E-01	19P	4.80	5.40	6.60	7.20	6.00
20599-021E-01	21P	5.40	6.00	7.20	7.80	6.60
20599-023E-01	23P	6.00	6.60	7.80	8.40	7.20
20599-025E-01	25P	6.60	7.20	8.40	9.00	7.80
20599-027E-01	27P	7.20	7.80	9.00	9.60	8.40
20599-029E-01	29P	7.80	8.40	9.60	10.20	9.00
20599-031E-01	31P	8.40	9.00	10.20	10.80	9.60
20599-033E-01	33P	9.00	9.60	10.80	11.40	10.20
20599-035E-01	35P	9.60	10.20	11.40	12.00	10.80
20599-037E-01	37P	10.20	10.80	12.00	12.60	11.40

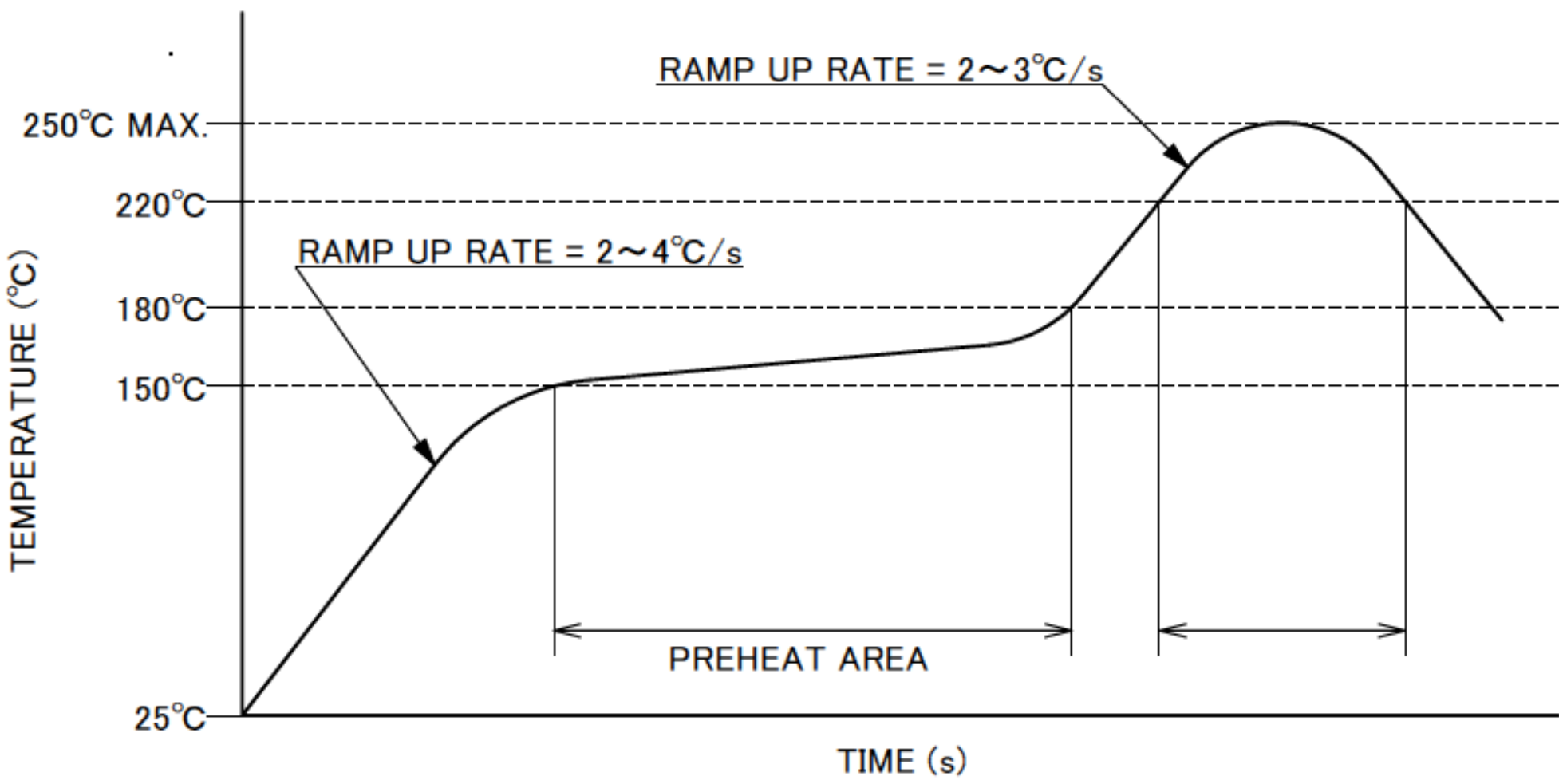
NOTES
2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm



CONNECTOR ON RECOMMENDED PCB LAYOUT



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

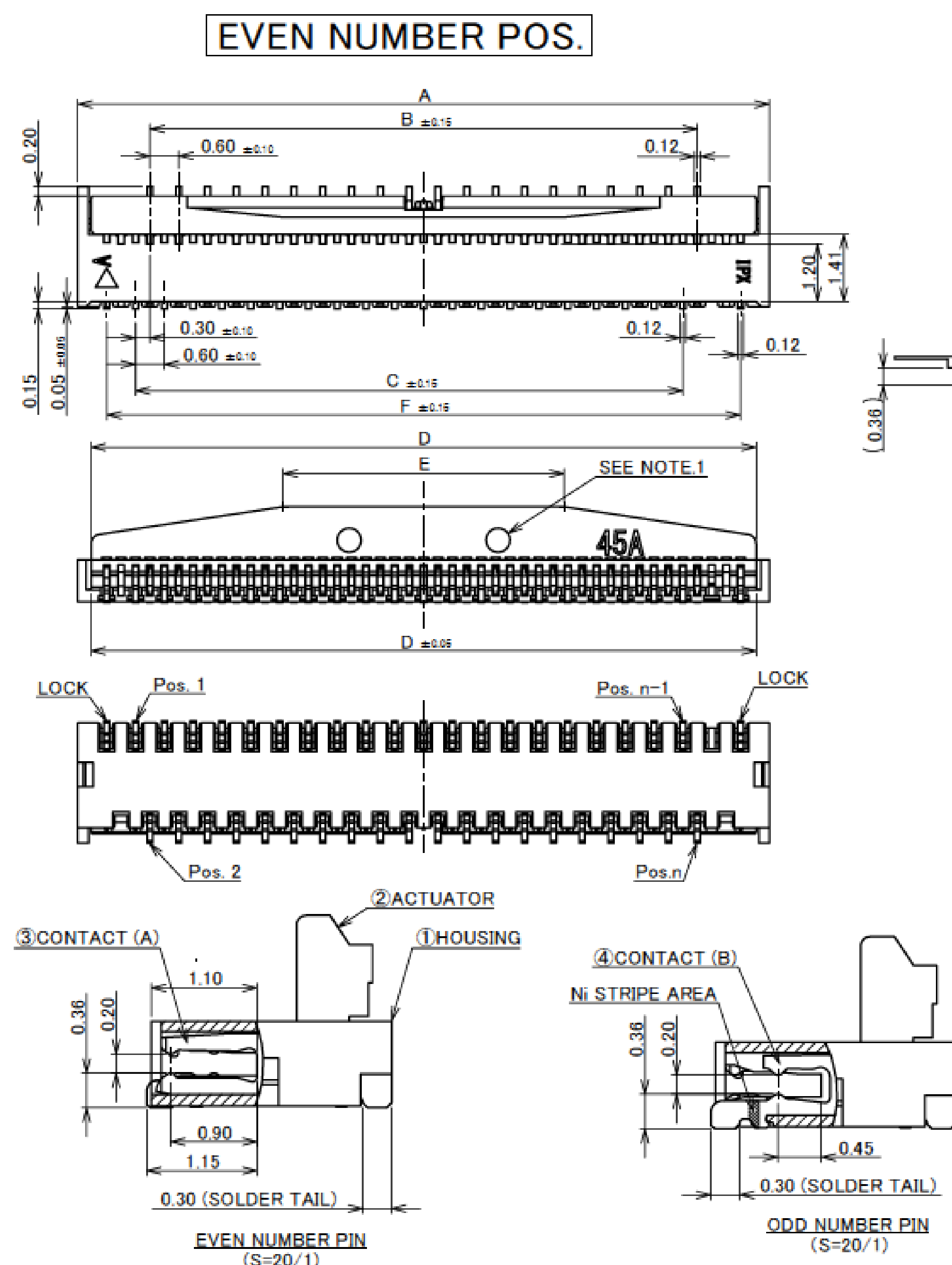
Connector Assembly

※ "n" IS THE NUMBER OF PIN

Rev.13

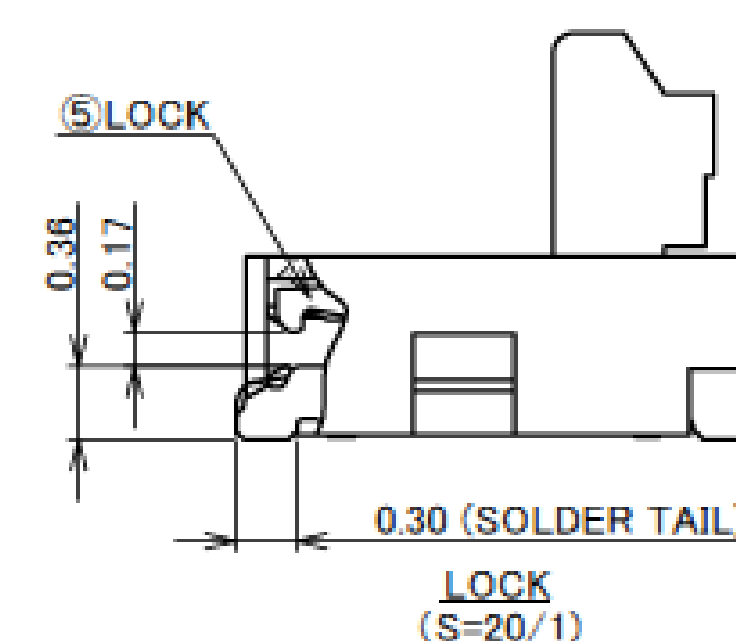
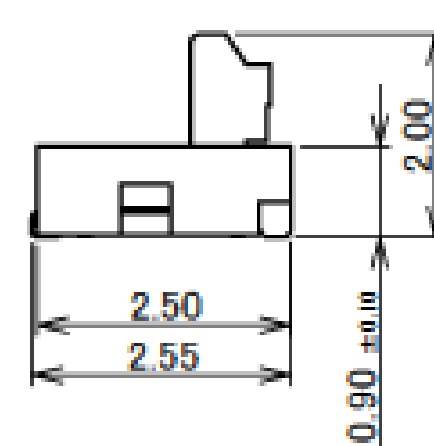
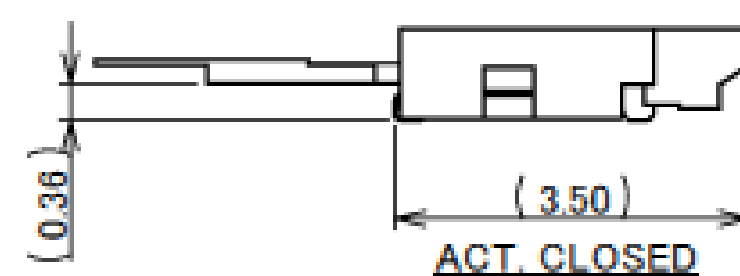
Contact your sales representative for more detailed information. www.i-pex.com

Connector Assembly

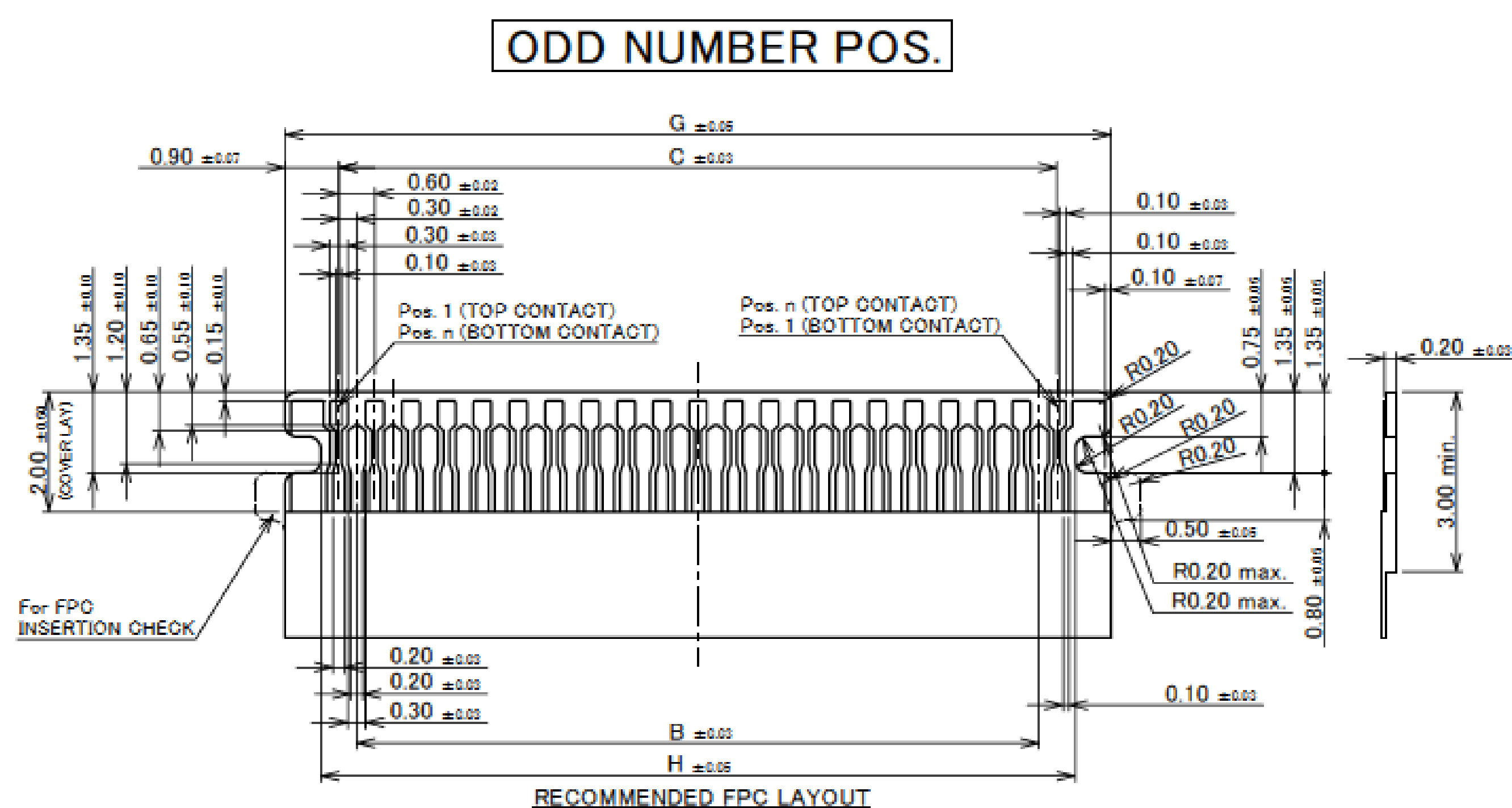


	PART NO.	Pcs.	A	B	C	D	E	F
◆	20584-030E-01	30P	11.40	8.40	8.40	10.85	6.85	10.20
◆	20584-034E-01	34P	12.60	9.60	9.60	12.05	8.05	11.40
◆	20584-038E-01	38P	13.80	10.80	10.80	13.25	5.25	12.60
◆	20584-040E-01	40P	14.40	11.40	11.40	13.85	5.85	13.20
◆	20584-050E-01	50P	17.40	14.40	14.40	16.85	8.85	16.20
◆	20584-056E-01	56P	19.20	16.20	16.20	18.65	10.65	18.00

◆ MARK MEANS NOT AVAILABLE.



Rev.18



	PART NO.	Pos.	B	C	F	G	H
◆	20584-029E-01	29P	7.80	8.40	9.60	10.20	9.00
◆	20584-031E-01	31P	8.40	9.00	10.20	10.80	9.60
◆	20584-035E-01	35P	9.60	10.20	11.40	12.00	10.80
◆	20584-037E-01	37P	10.20	10.80	12.00	12.60	11.40
◆	20584-039E-01	39P	10.80	11.40	12.60	13.20	12.00
◆	20584-041E-01	41P	11.40	12.00	13.20	13.80	12.60
◆	20584-045E-01	45P	12.60	13.20	14.40	15.00	13.80
◆	20584-047E-01	47P	13.20	13.80	15.00	15.60	14.40
	20584-051E-01	51P	14.40	15.00	16.20	16.80	15.60
	20584-053E-01	53P	15.00	15.60	16.80	17.40	16.20
	20584-057E-01	57P	16.20	16.80	18.00	18.60	17.40
	20584-061E-01	61P	17.40	18.00	19.20	19.80	18.60
◆	20584-063E-01	63P	18.00	18.60	19.80	20.40	19.20
	20584-071E-01	71P	20.40	21.00	22.20	22.80	21.60

◆ MARK MEANS NOT AVAILABLE.

NOTES

3. MATERIAL

COVER FILM : PI

CONDUCTOR : COPPER(RARE)

BASE FILM : P1

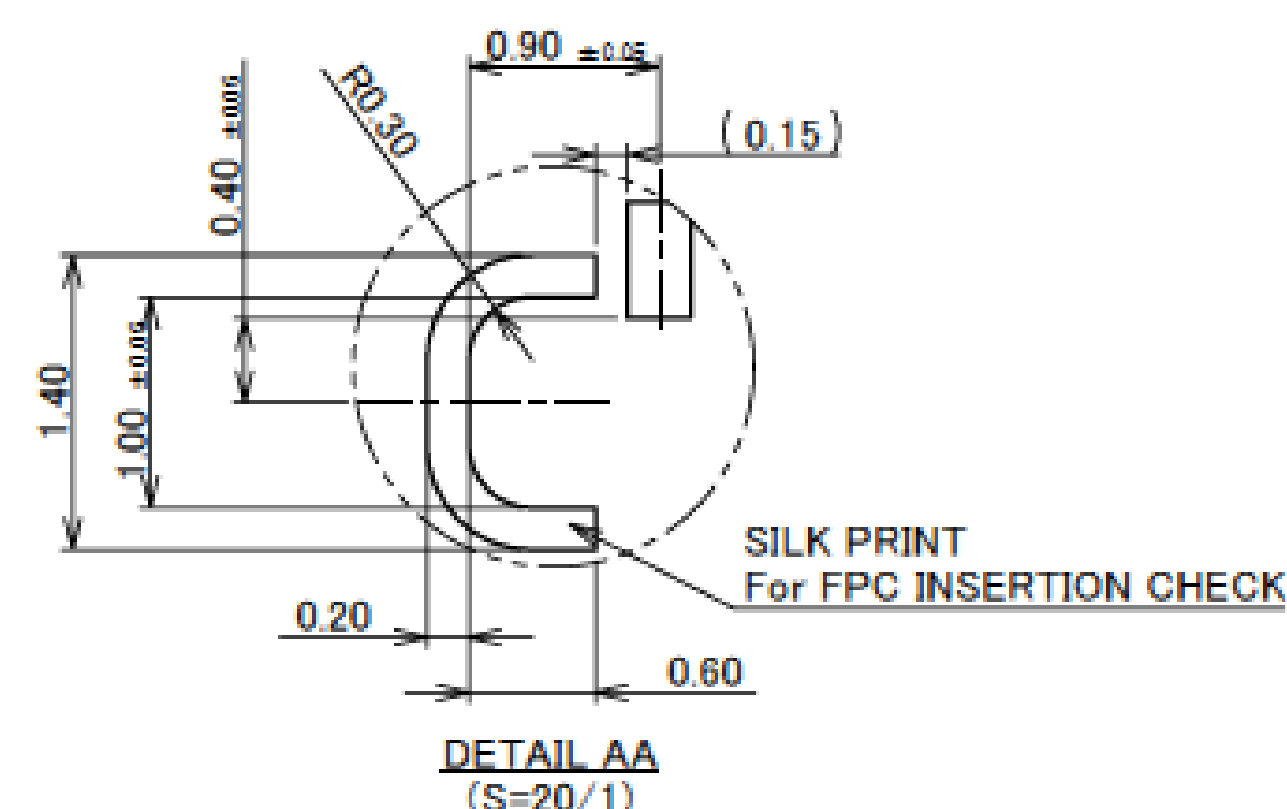
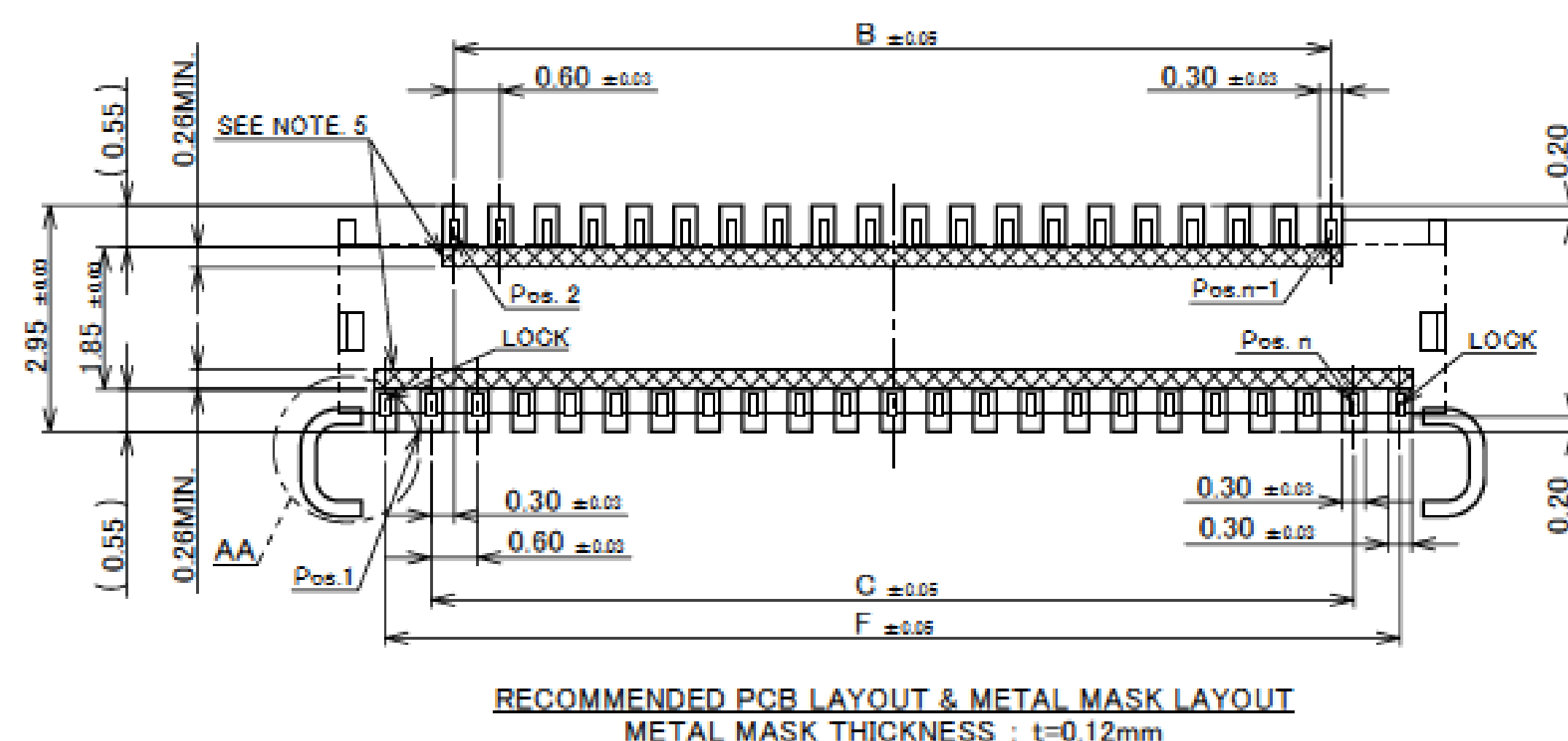
STIFFENER : PI

ADHESIVE: THERMOSETTING ADHESIVE

4. FINISH

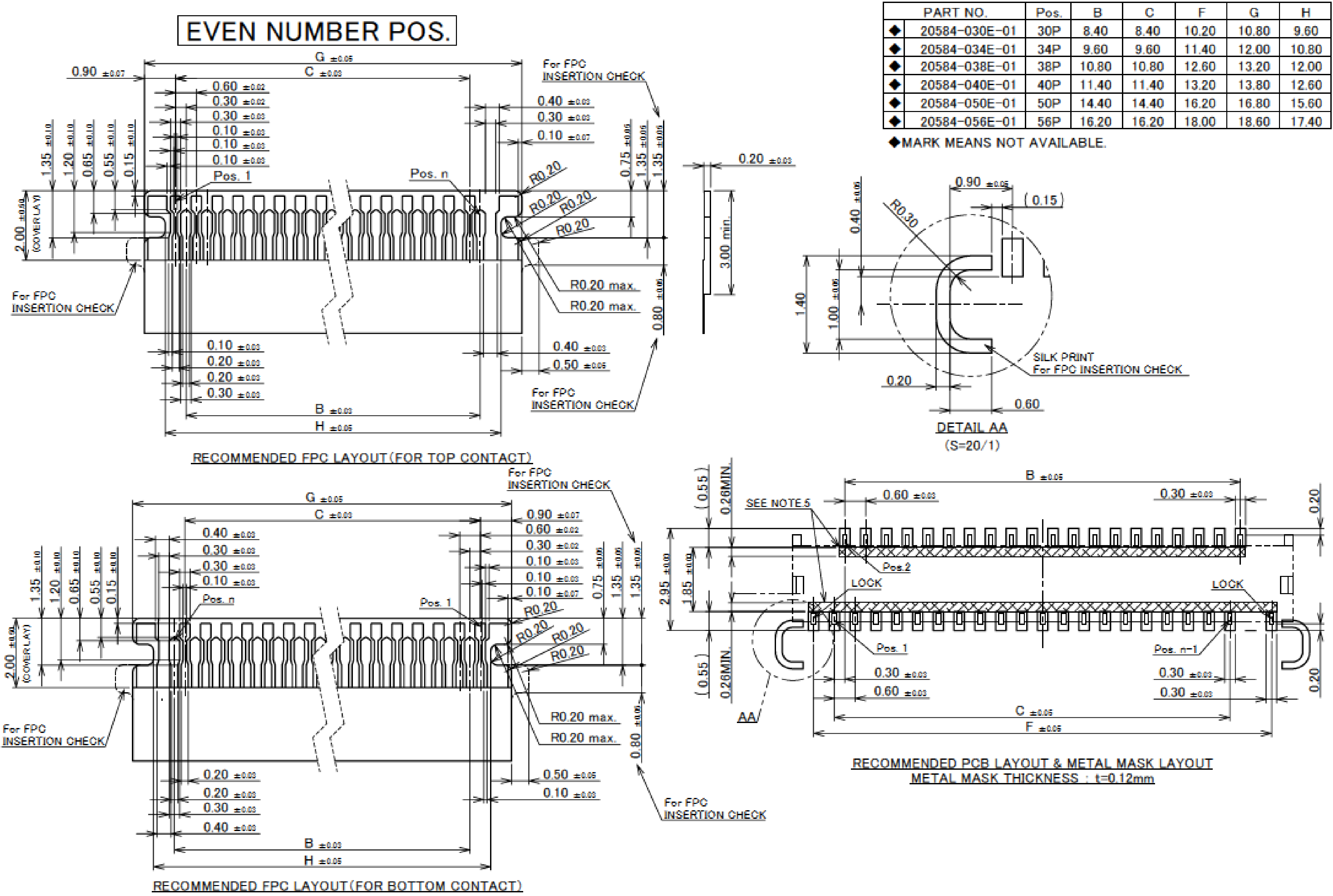
Au OVER Ni UNDER PLATING.

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

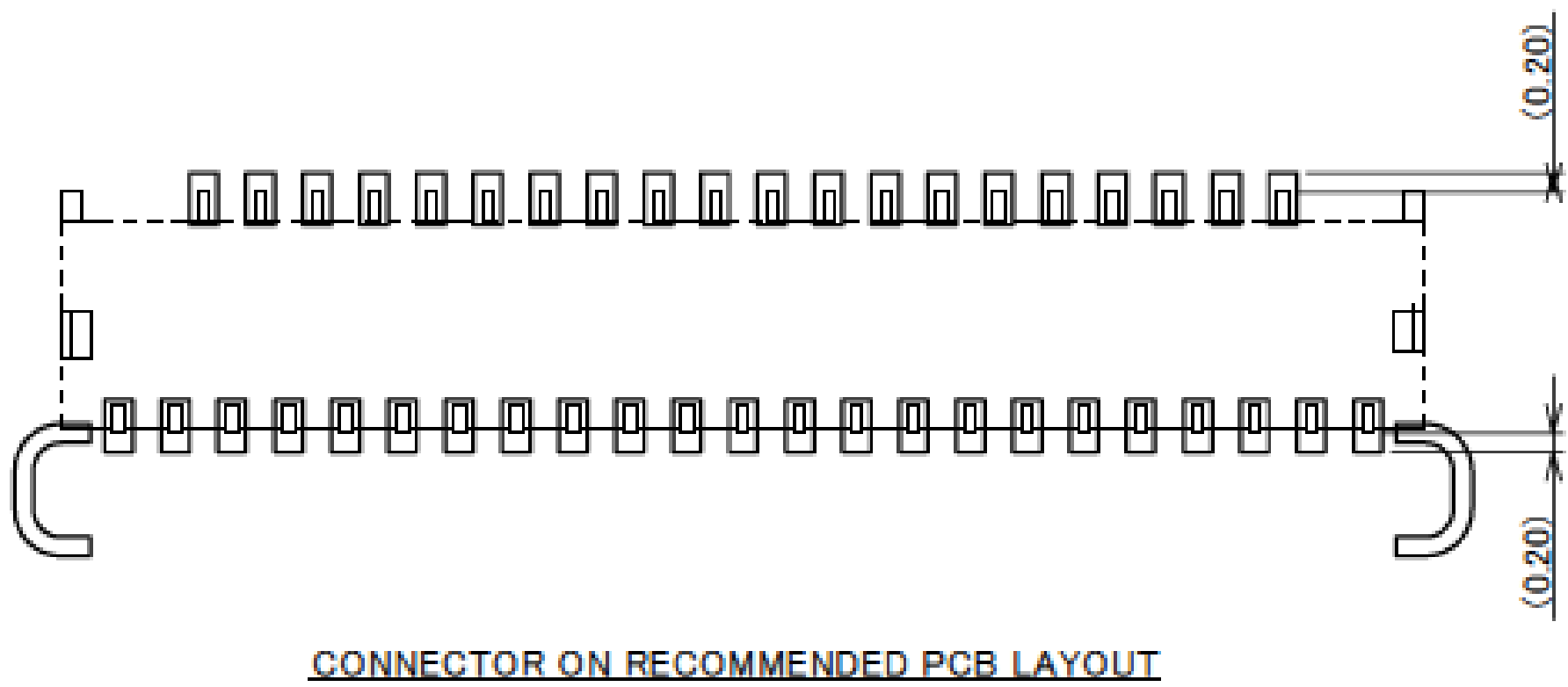


Rev.18

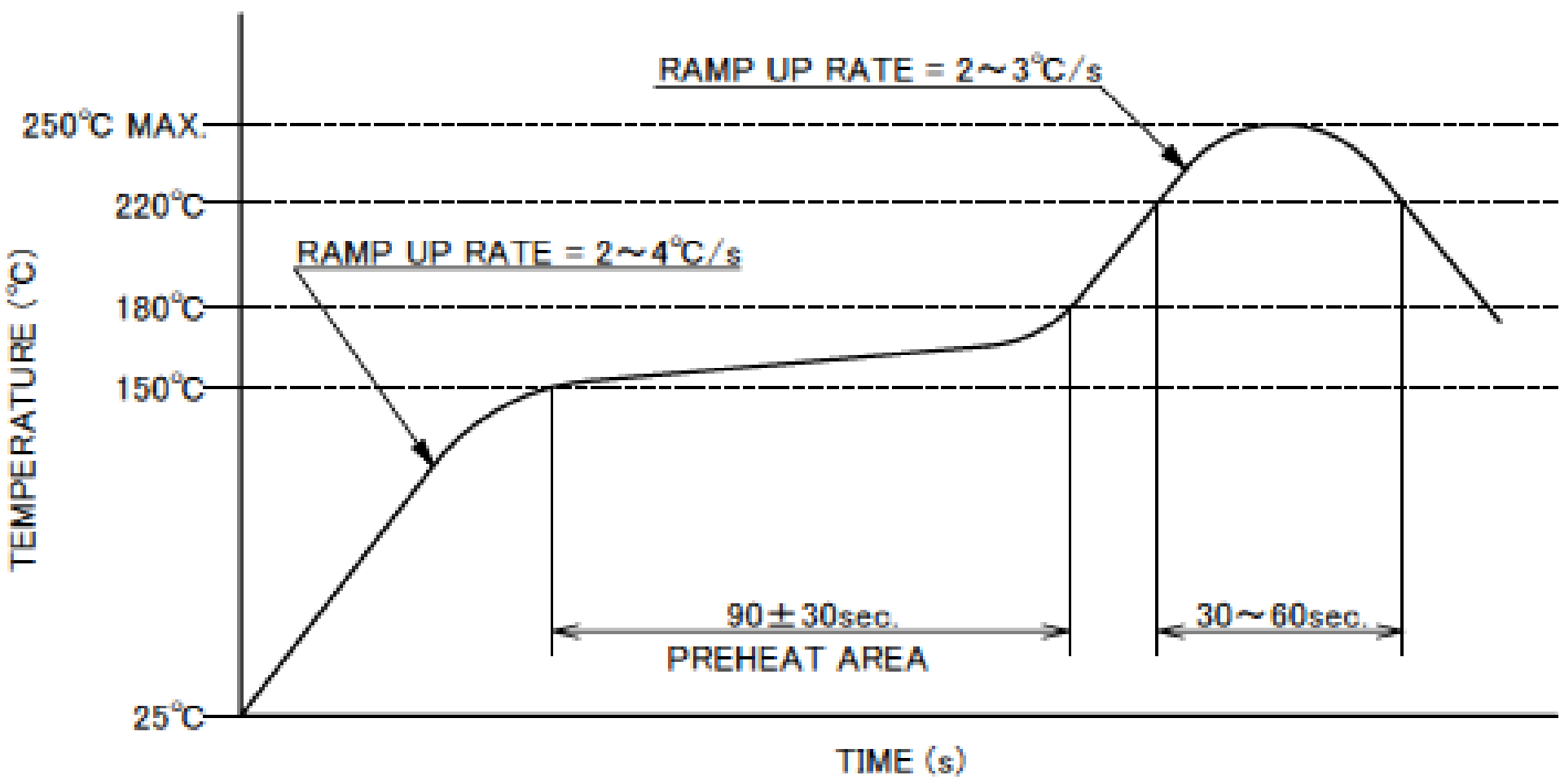
Connector Assembly



Rev.18



CONNECTOR ON RECOMMENDED PCB LAYOUT



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

Rev.18

Connector Assembly

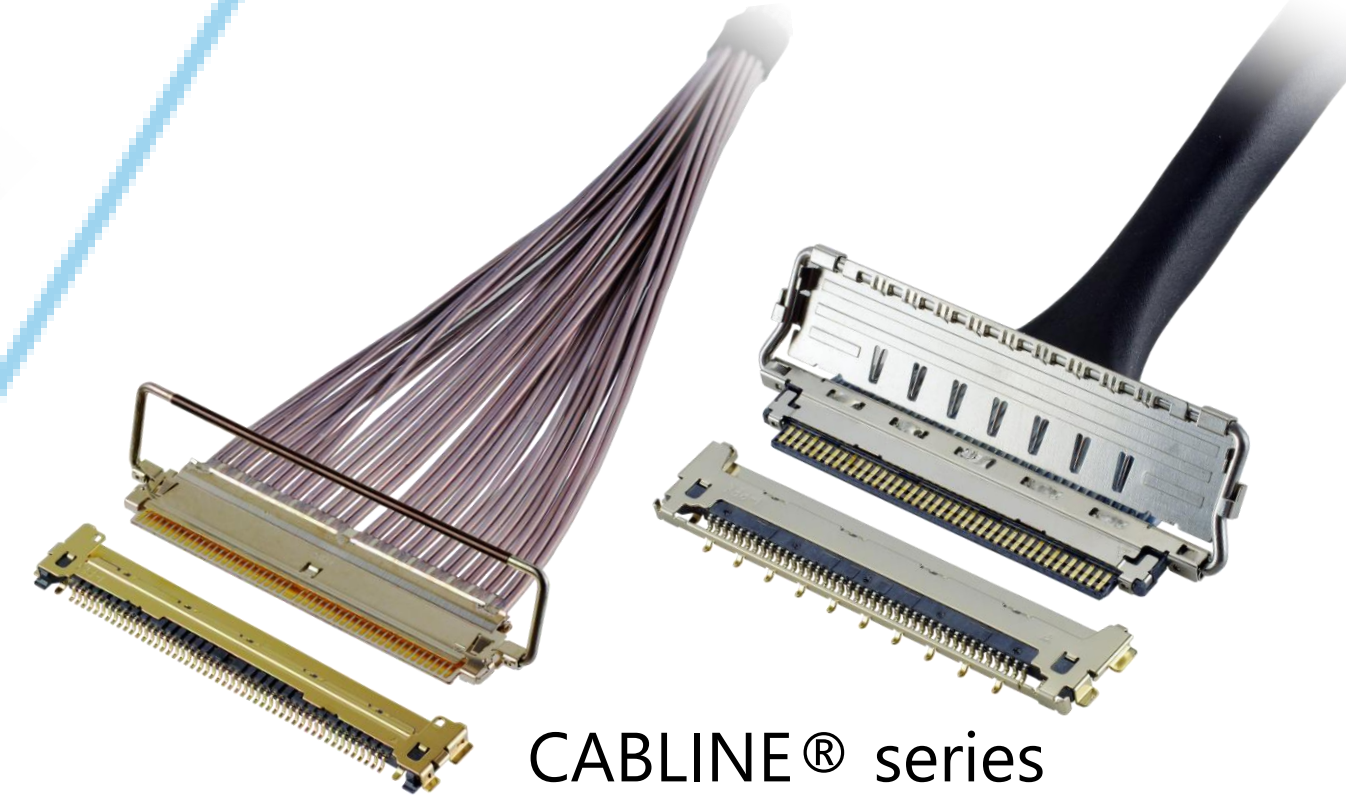
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K (-40℃~+85℃)
OPERATING HUMIDITY	20~80%RH
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) × (n + 2) MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) × n + 1.0N MIN. / AFTER TEST: 0.10N (10gf) × n + 1.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1789
TEST REPORT	TR-13022
PACKING STANDARD	PST-13013
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

※ “n” IS THE NUMBER OF PIN

Custom Connectors Available

RF Connectors

MHF® series



CABLINE® series

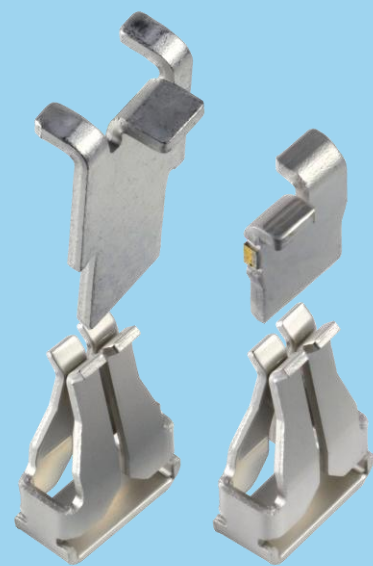


Micro-Coaxial/Twinaxial Connectors

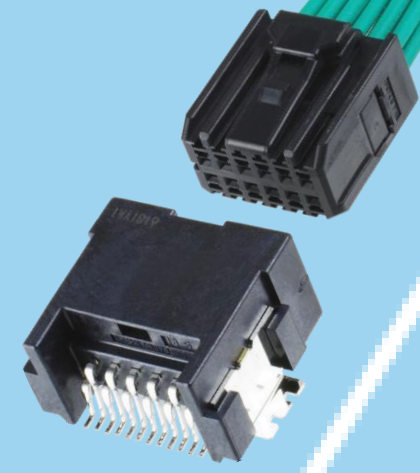


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



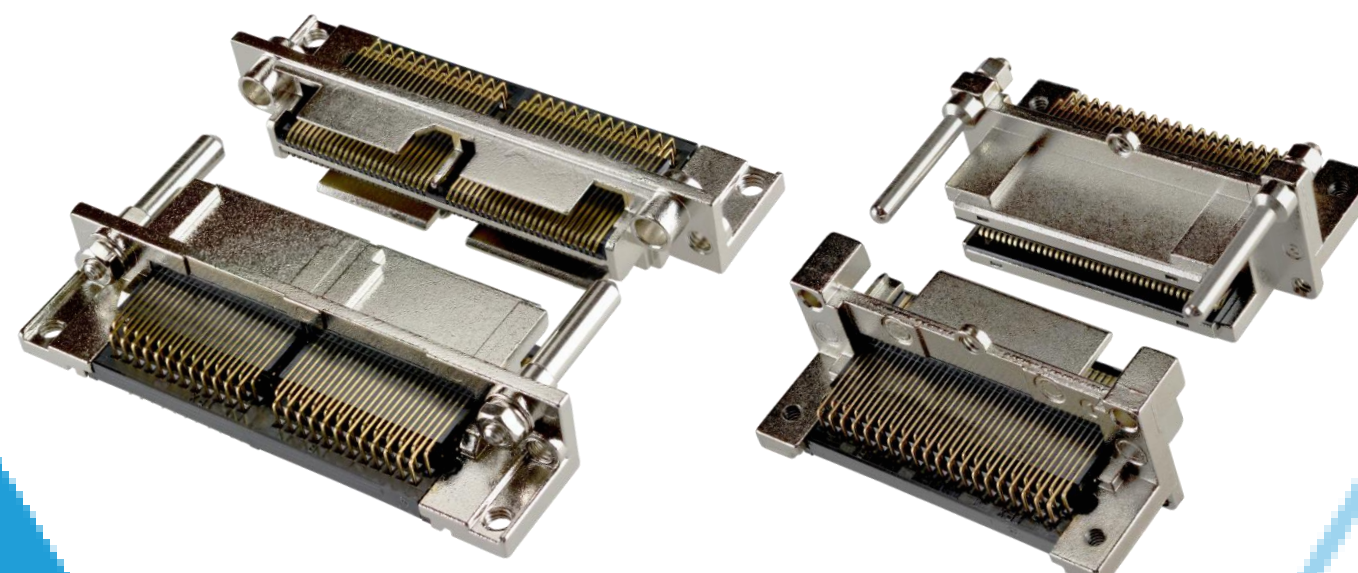
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

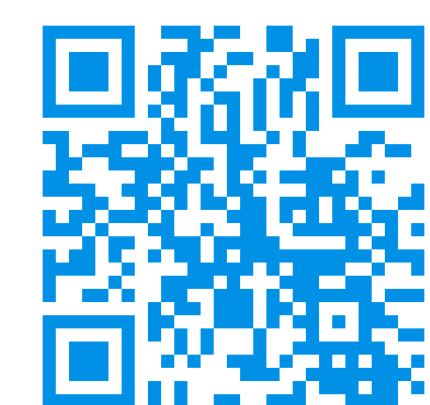
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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