

MINIFLEX® 3-BFN L-LK-HD

機械鎖扣，Hold down 設計,較長鋼琴蓋, 低背(高度 = 0.9 mm) · 0.3 mm間距, 水平插拔, 後鎖式的堅固連接器

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: Even no pos: 3.0+(0.3*?p). Odd no pos: 2.7+(0.3*?p)
	Depth	Open:2.55 Close:3.5
Pin counts	Range	11-57 (odd)
	Available	11, 40, 45

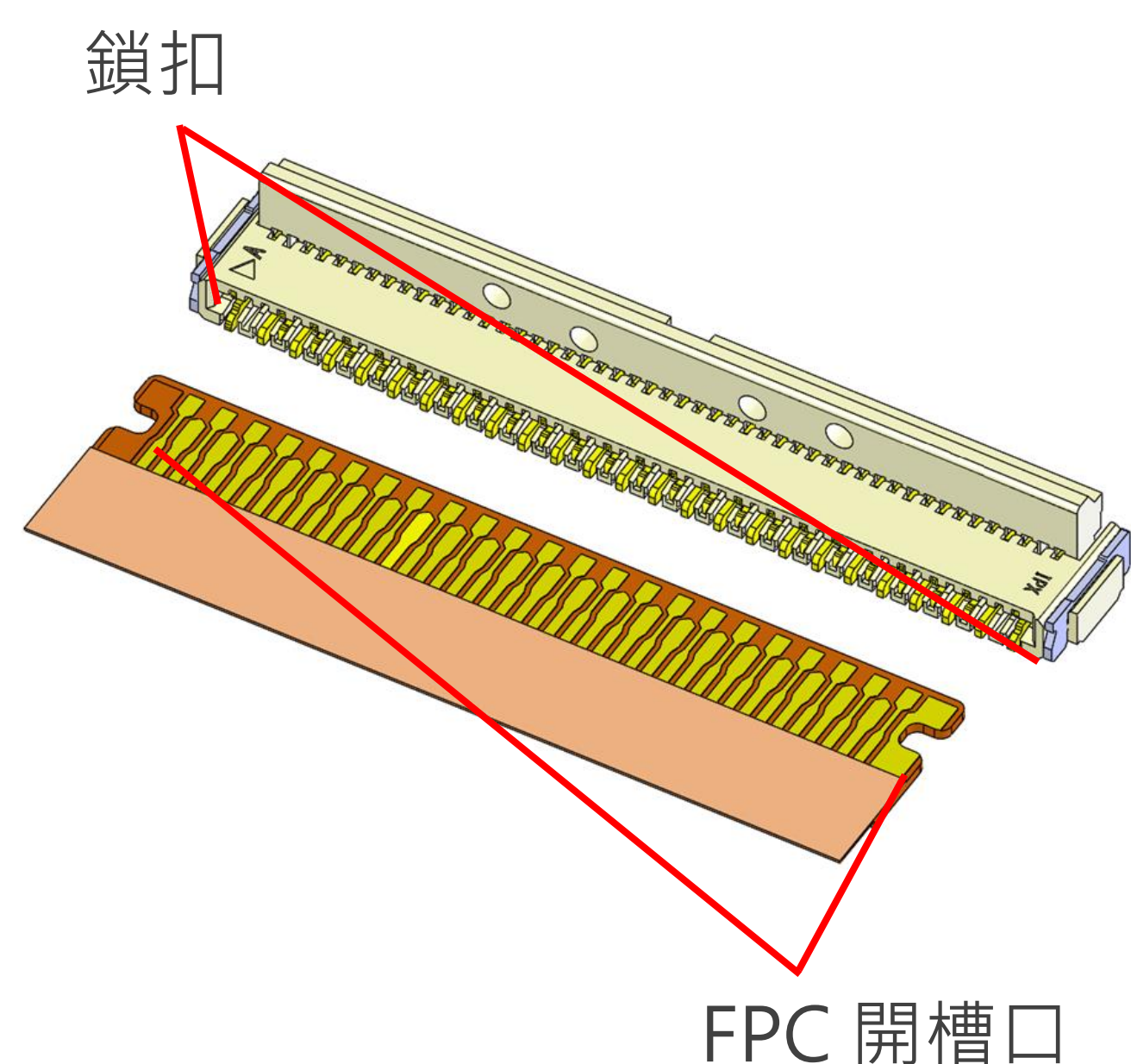
Applicable FPC/FFC:

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。



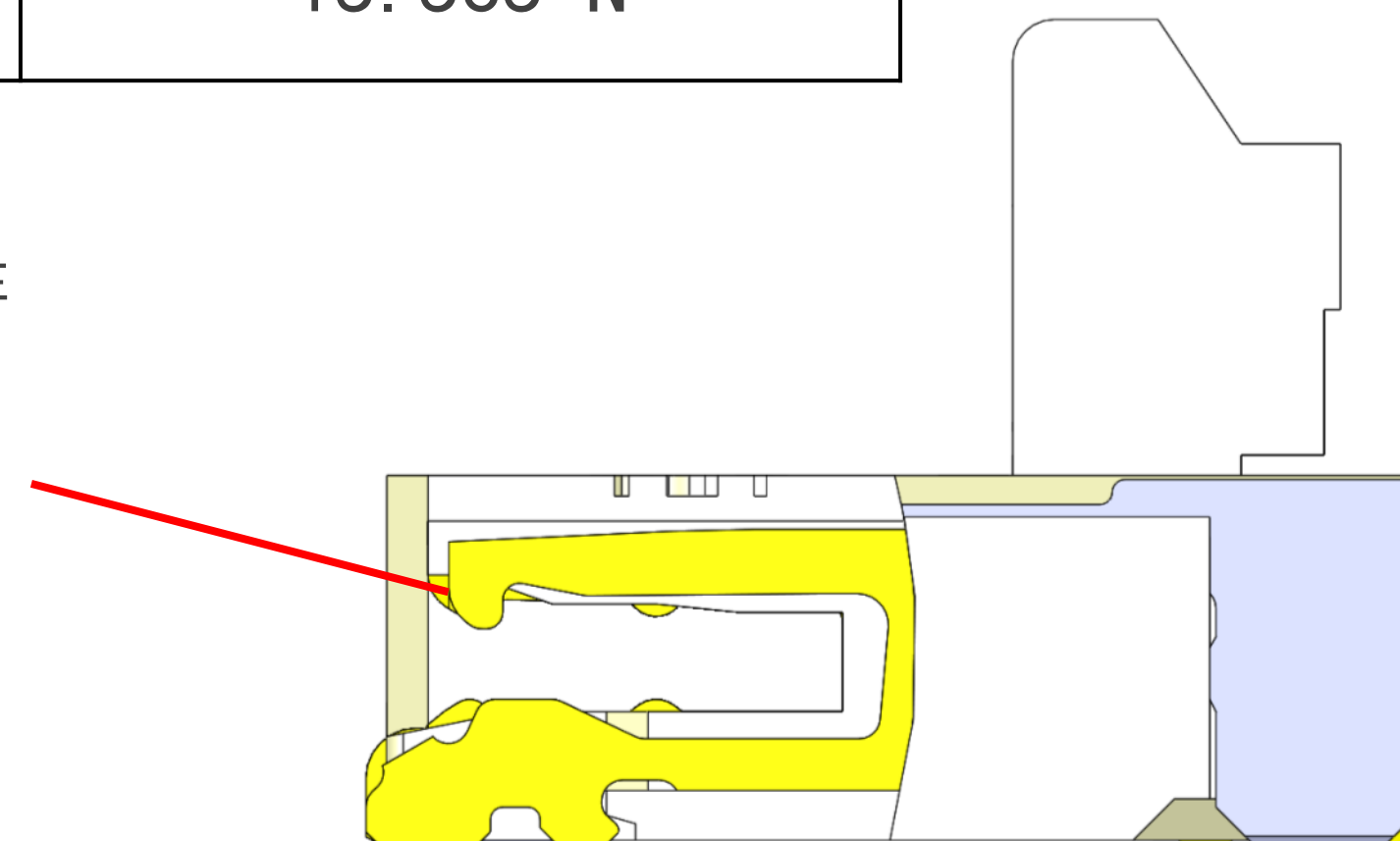
▶ 附加機械鎖扣提高 FPC 保持力



FPC 保持力比較 (45 p)

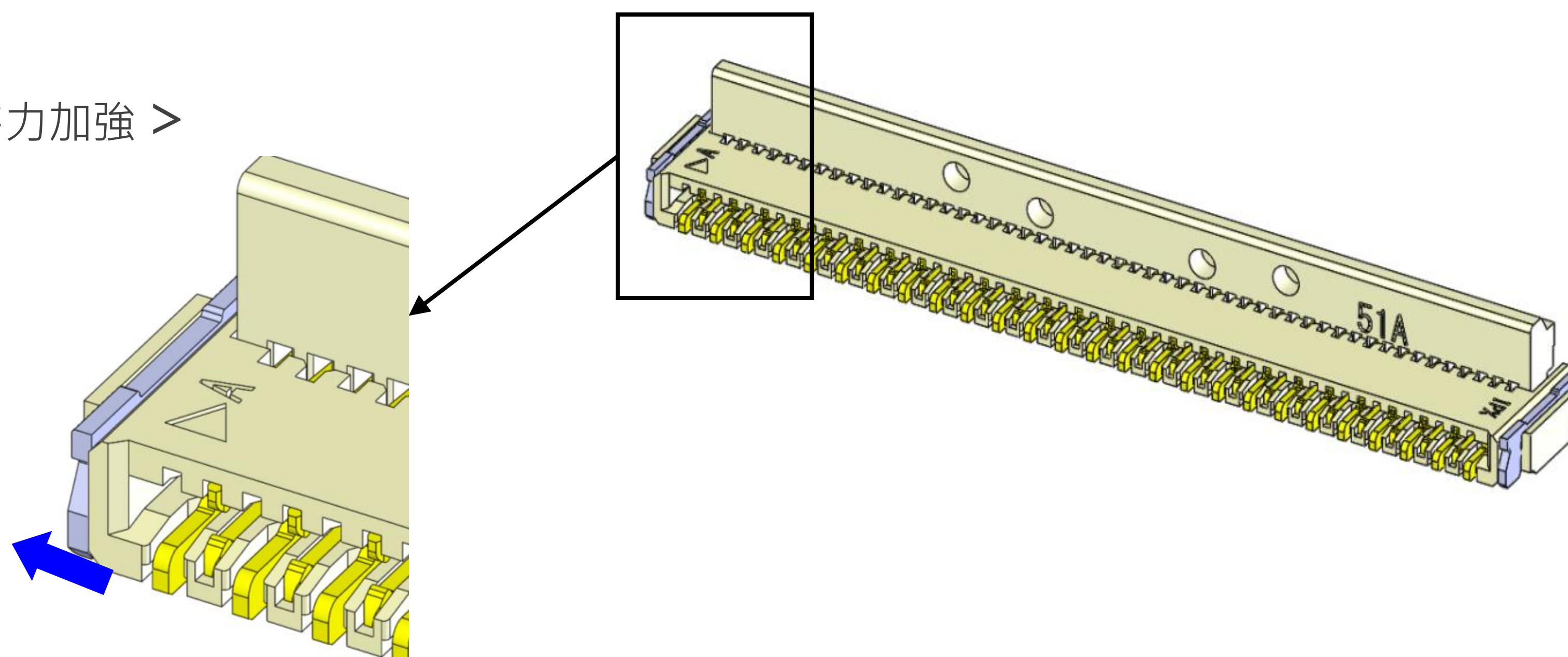
MINIFLEX® 3-BFN L-LK-HD	MINIFLEX® 3-BFN Long
20. 710 N	15. 535 N

FPC 鎖扣機制維持
FPC高保持力



▶ Hold down 設計加強側壁力度

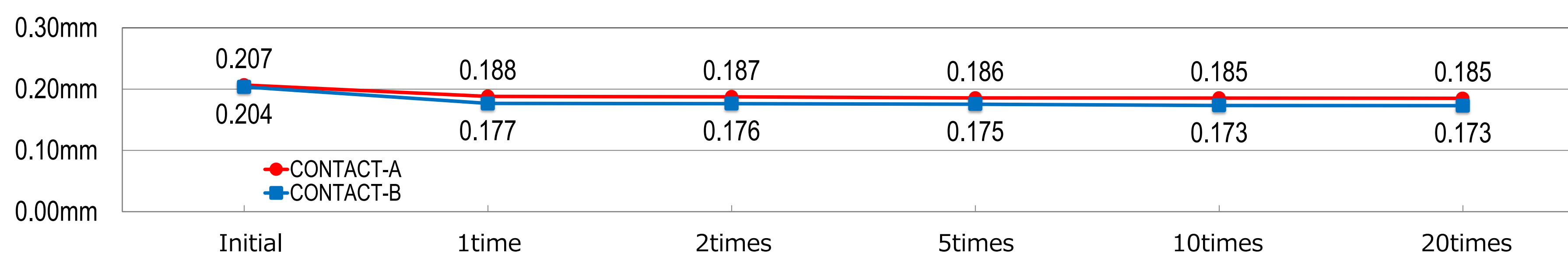
< 保持力加強 >



▶ 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)



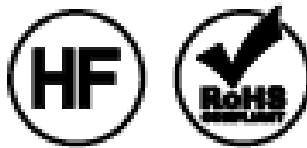
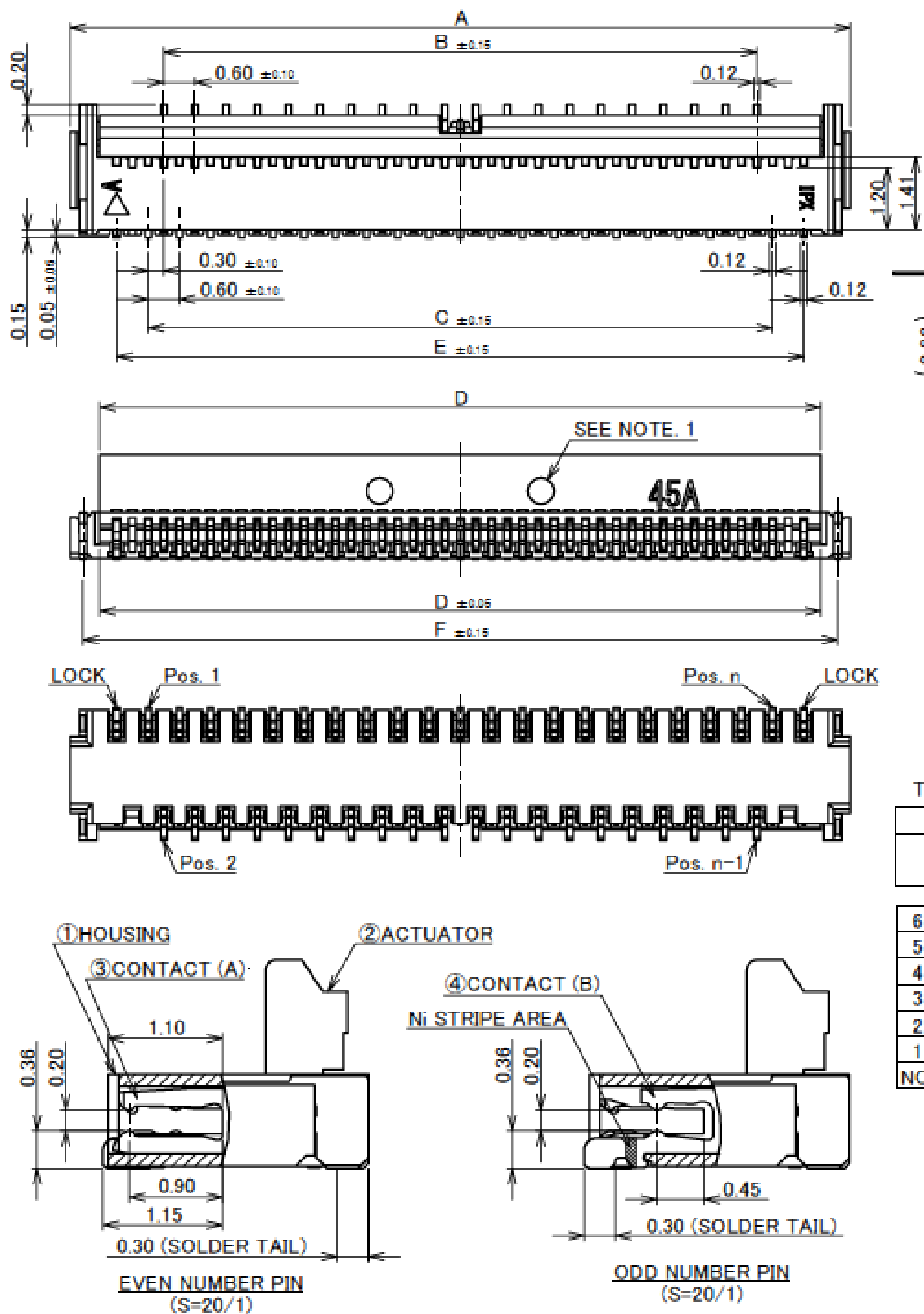
- FPC插入力上升
- FPC保持力無太大變化

Component Parts Details

Connector Assembly

Recommended P/N 20655-0**E-01

ODD NUMBER POS.



PART NO.	Pos.	A	B	C	D	E	F
20655-011E-01	11P	6.00	2.40	3.00	4.85	4.20	5.50
◆ 20655-029E-01	29P	11.40	7.80	8.40	10.25	9.60	10.90
◆ 20655-031E-01	31P	12.00	8.40	9.00	10.85	10.20	11.50
◆ 20655-035E-01	35P	13.20	9.60	10.20	12.05	11.40	12.70
◆ 20655-037E-01	37P	13.80	10.20	10.80	12.65	12.00	13.30
◆ 20655-041E-01	41P	15.00	11.40	12.00	13.85	13.20	14.50
20655-045E-01	45P	16.20	12.60	13.20	15.05	14.40	15.70
◆ 20655-047E-01	47P	16.80	13.20	13.80	15.65	15.00	16.30
◆ 20655-051E-01	51P	18.00	14.40	15.00	16.85	16.20	17.50
◆ 20655-053E-01	53P	18.60	15.00	15.60	17.45	16.80	18.10
◆ 20655-057E-01	57P	19.80	16.20	16.80	18.65	18.00	19.30

◆ 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.

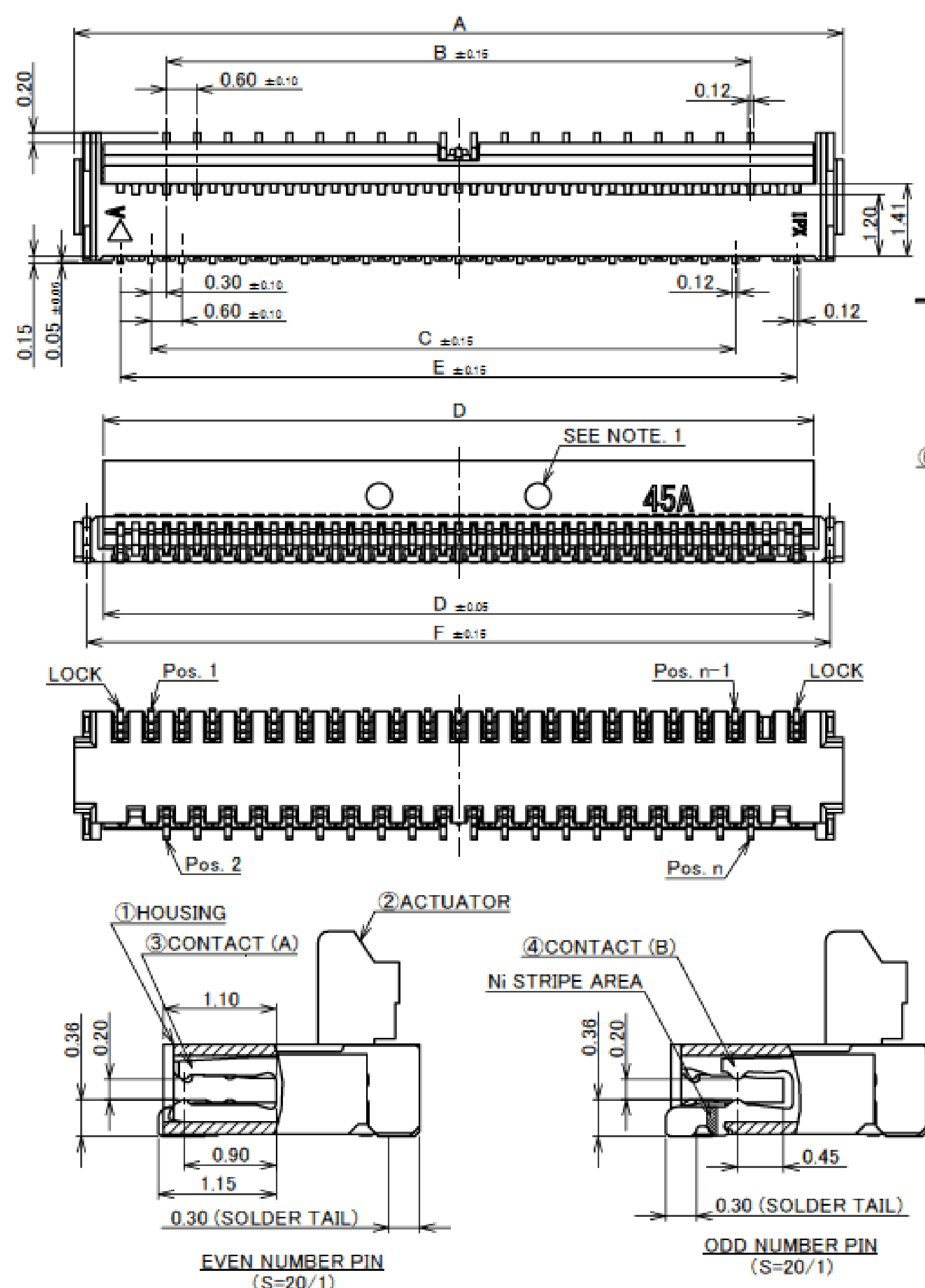
TABLE 1

PART NO.		FINISH	
20655-0**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.	
6	HOLD DOWN	PHOSPHOR BRONZE	Sn 2~6 μ m OVER Ni 1.00 μ m MIN.
5	LOCK	PHOSPHOR BRONZE	SOLDERLING AREA: Au 0.03 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	HOUSNIG	LCP	UL94V-0, BEIGE
NO	DISCRIPTION	MATERIAL	FINISH , REMARKS

Connector Assembly

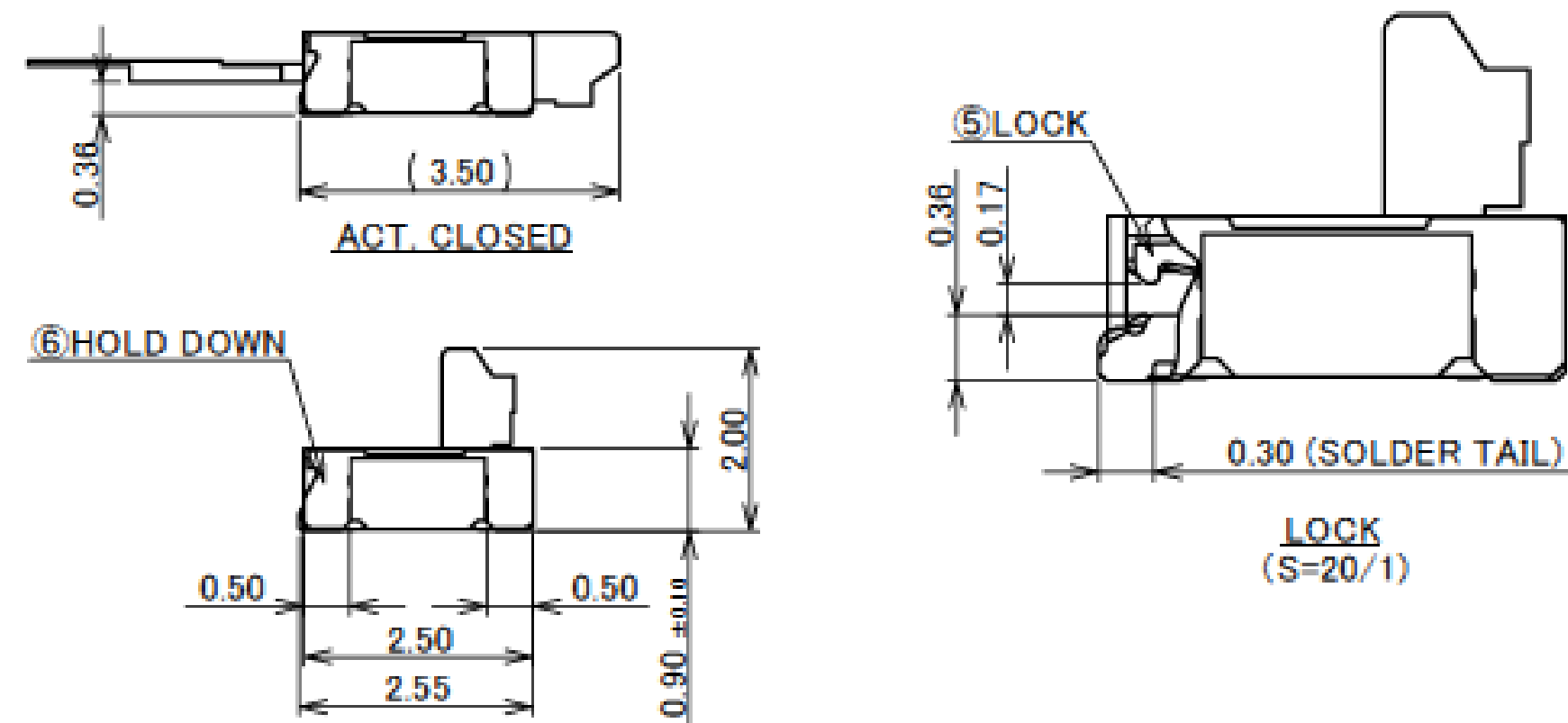
Recommended P/N	20655-0**E-01
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EVEN NUMBER POS.



PART NO.	Pos.	A	B	C	D	E	F
◆20655-030E-01	30P	12.00	8.40	8.40	10.85	10.20	11.50
20655-040E-01	40P	15.00	11.40	11.40	13.85	13.20	14.50
◆20655-050E-01	50P	18.00	14.40	14.40	16.85	16.20	17.50

◆ MARK MEANS NOT AVAILABLE.



NOTES.

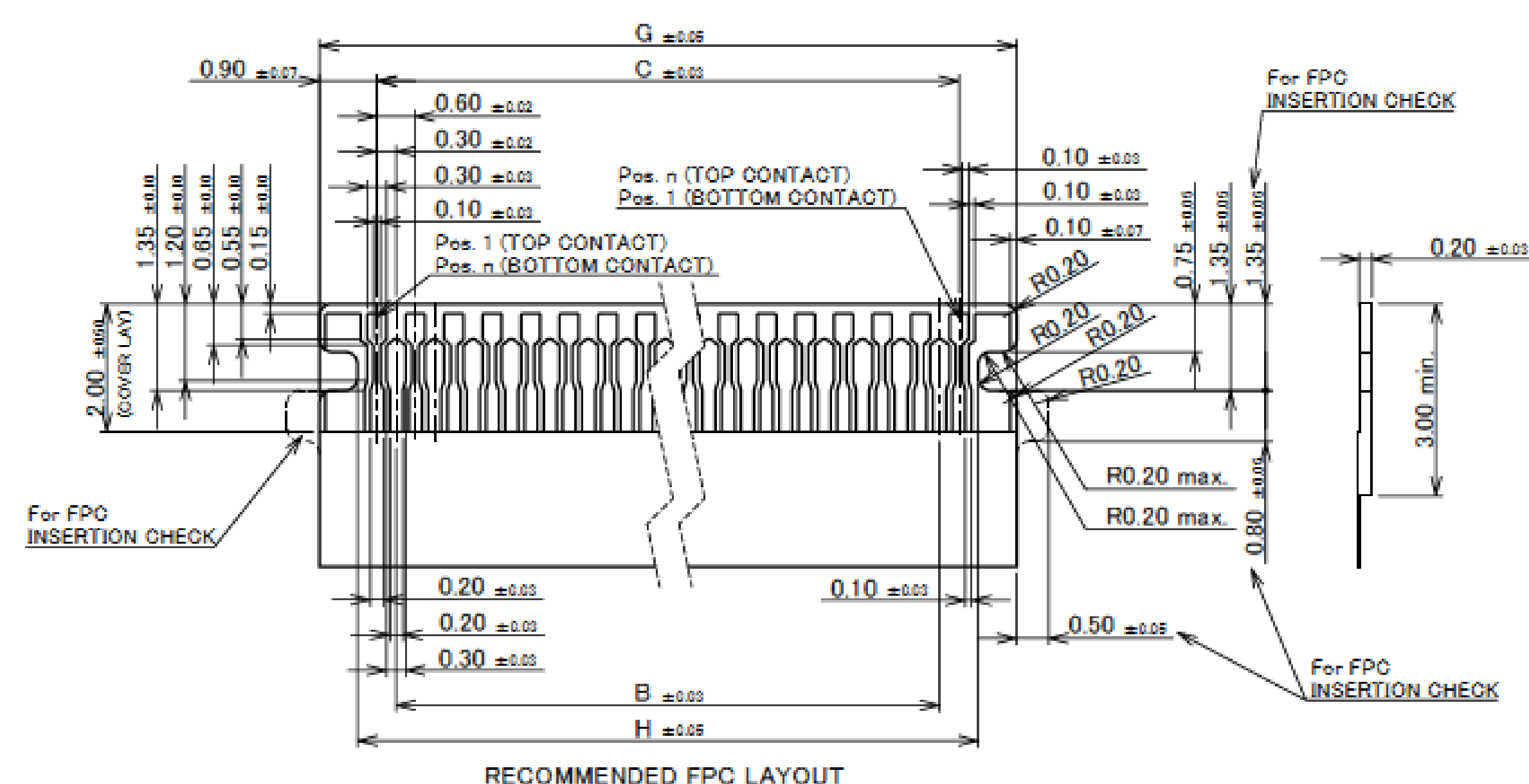
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2. CONTACT POINT : TOP AND BOTTOM CONTACT


CAUTION

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

Rev.9

ODD NUMBER POS.



PART NO.	Pos.	B	C	E	G	H	J
20655-011E-01	11P	2.40	3.00	4.20	4.80	3.60	5.65
◆20655-029E-01	29P	7.80	8.40	9.60	10.20	9.00	11.05
◆20655-031E-01	31P	8.40	9.00	10.20	10.80	9.60	11.65
◆20655-035E-01	35P	9.60	10.20	11.40	12.00	10.80	12.85
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◆20655-051E-01	51P	14.40	15.00	16.20	16.80	15.60	17.65
◆20655-053E-01	53P	15.00	15.60	16.80	17.40	16.20	18.25
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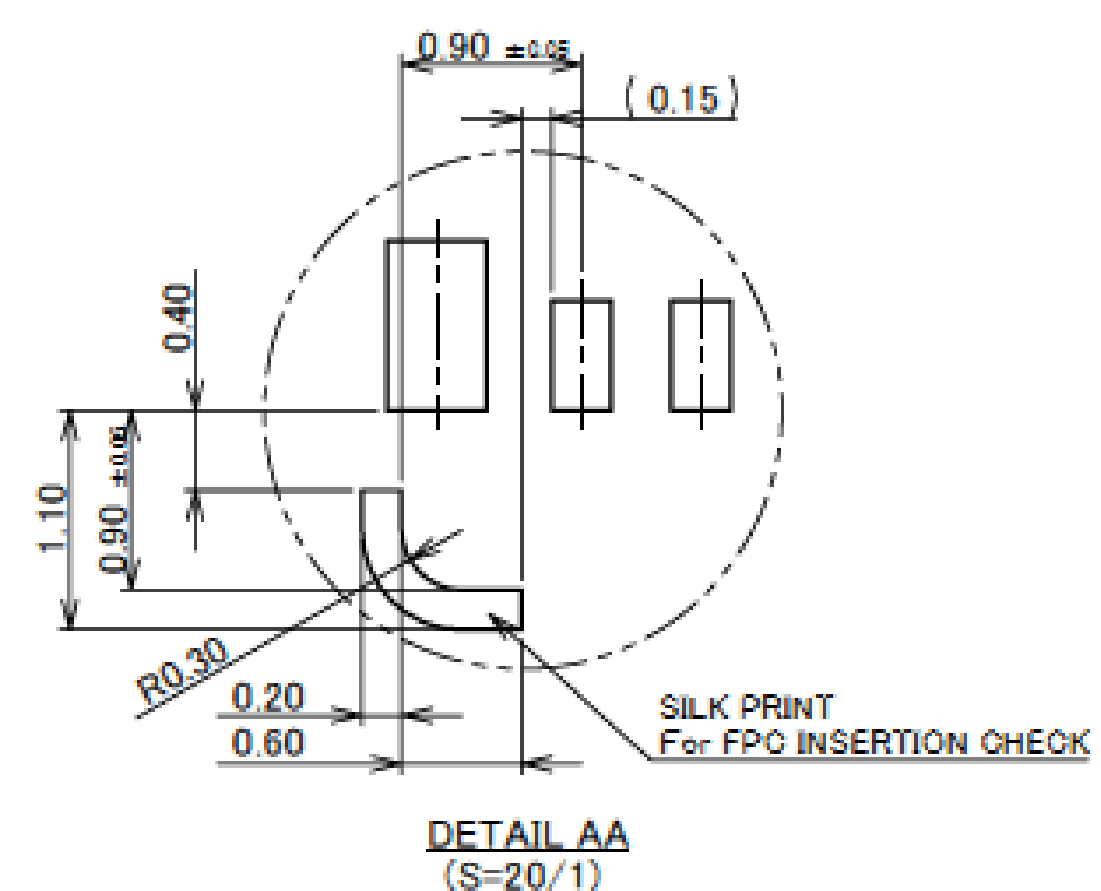
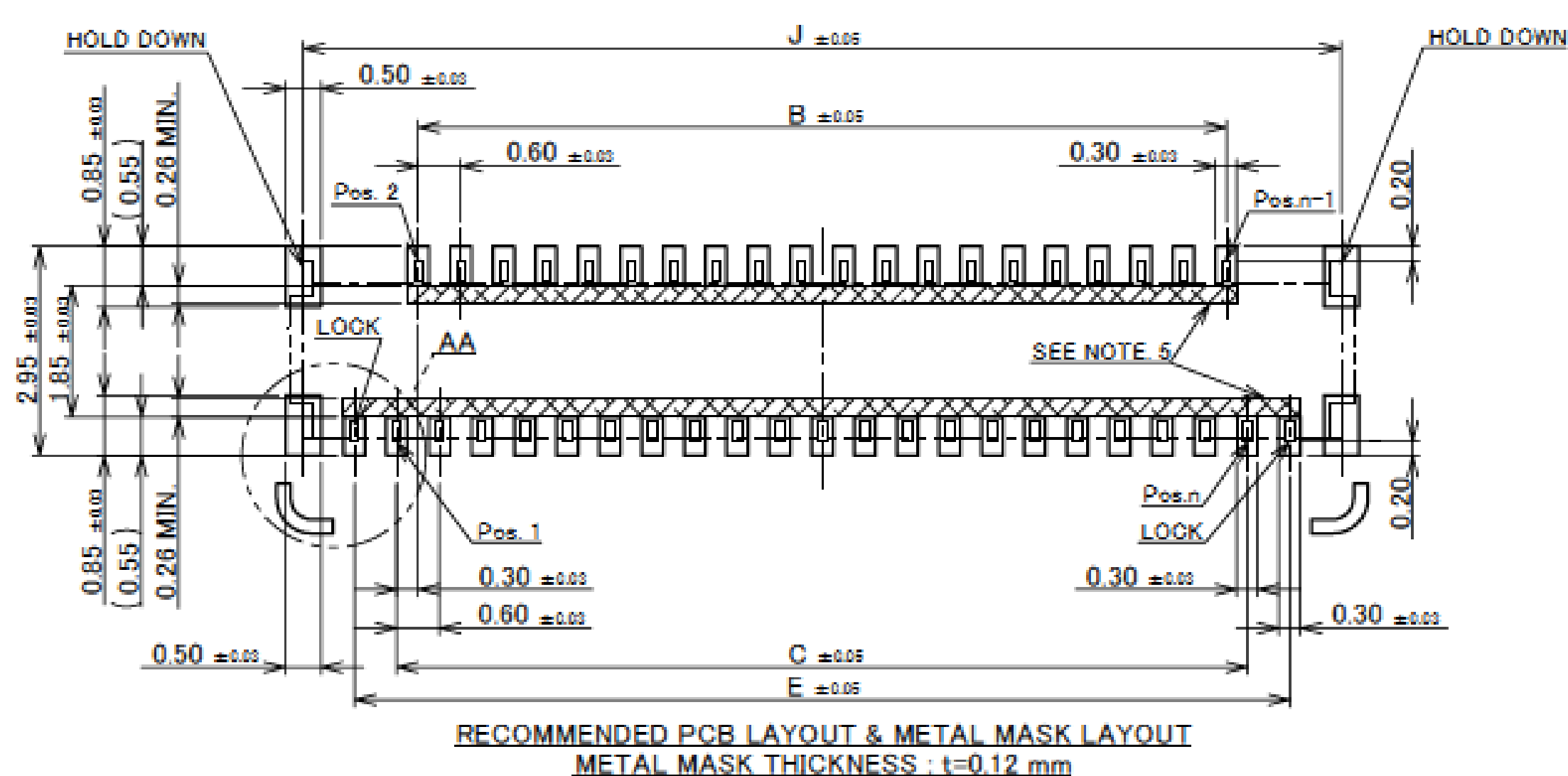
◆ MARK MEANS NOT AVAILABLE.

NOTES

3. MATERIAL
COVER FILM : PI
CONDUCTOR : COPPER(RARE)
BASE FILM : PI
STIFFENER : PI
ADHESIVE: THERMOSETTING ADHESIVE

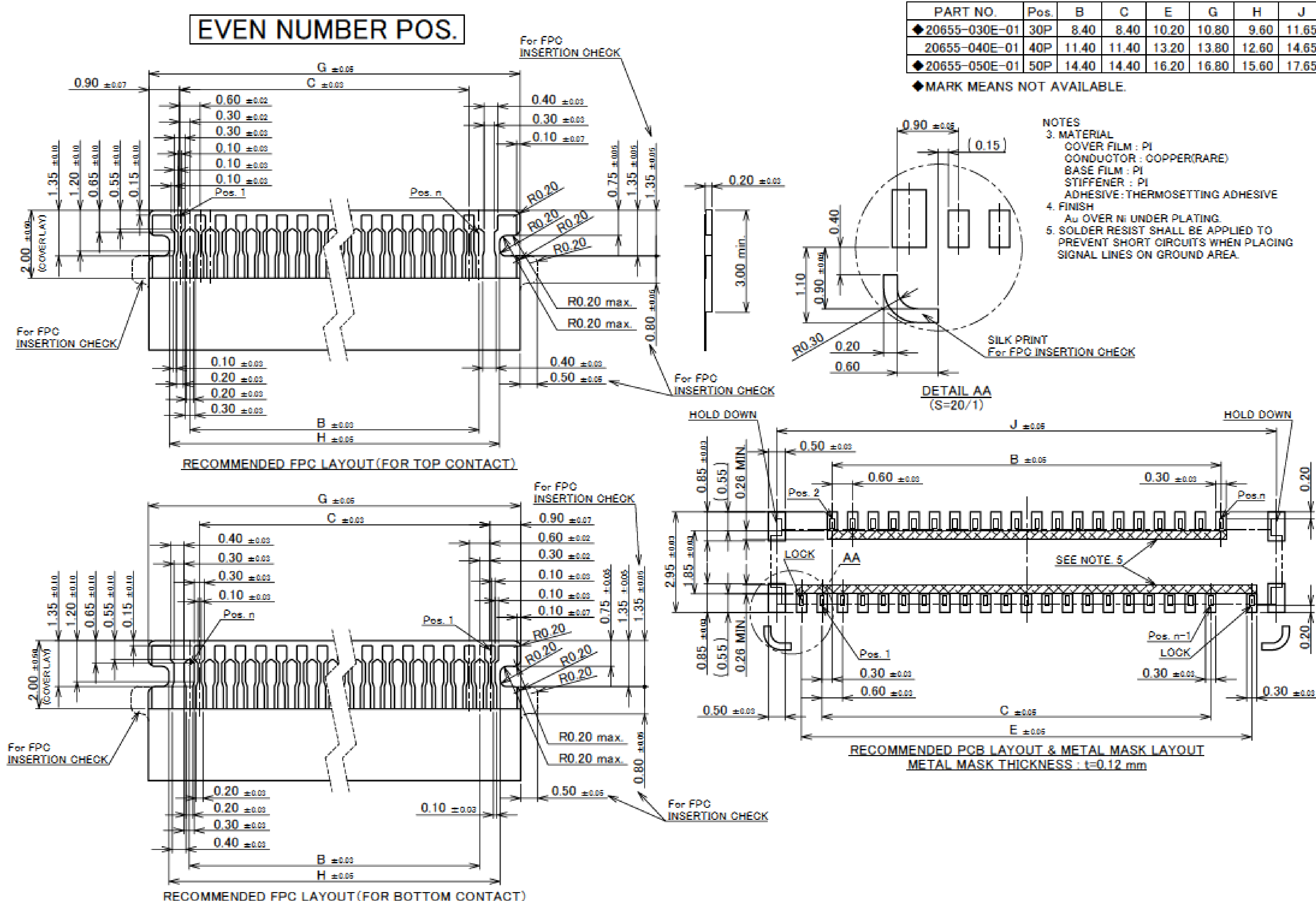
ADHESIVE: THERMOSETTING
4. FINISH
Au OVER Ni UNDER PLATING.

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

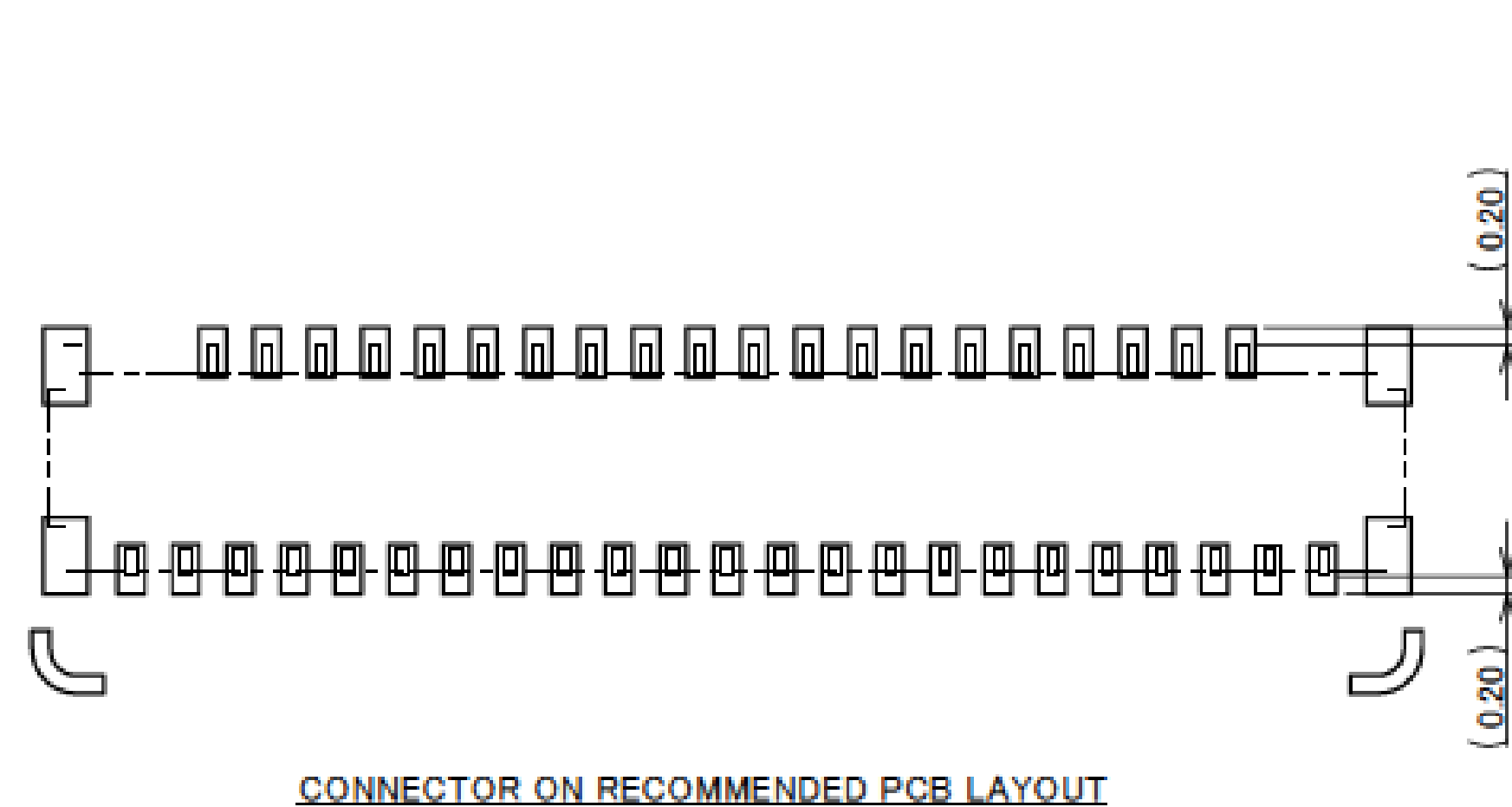


Rev.9

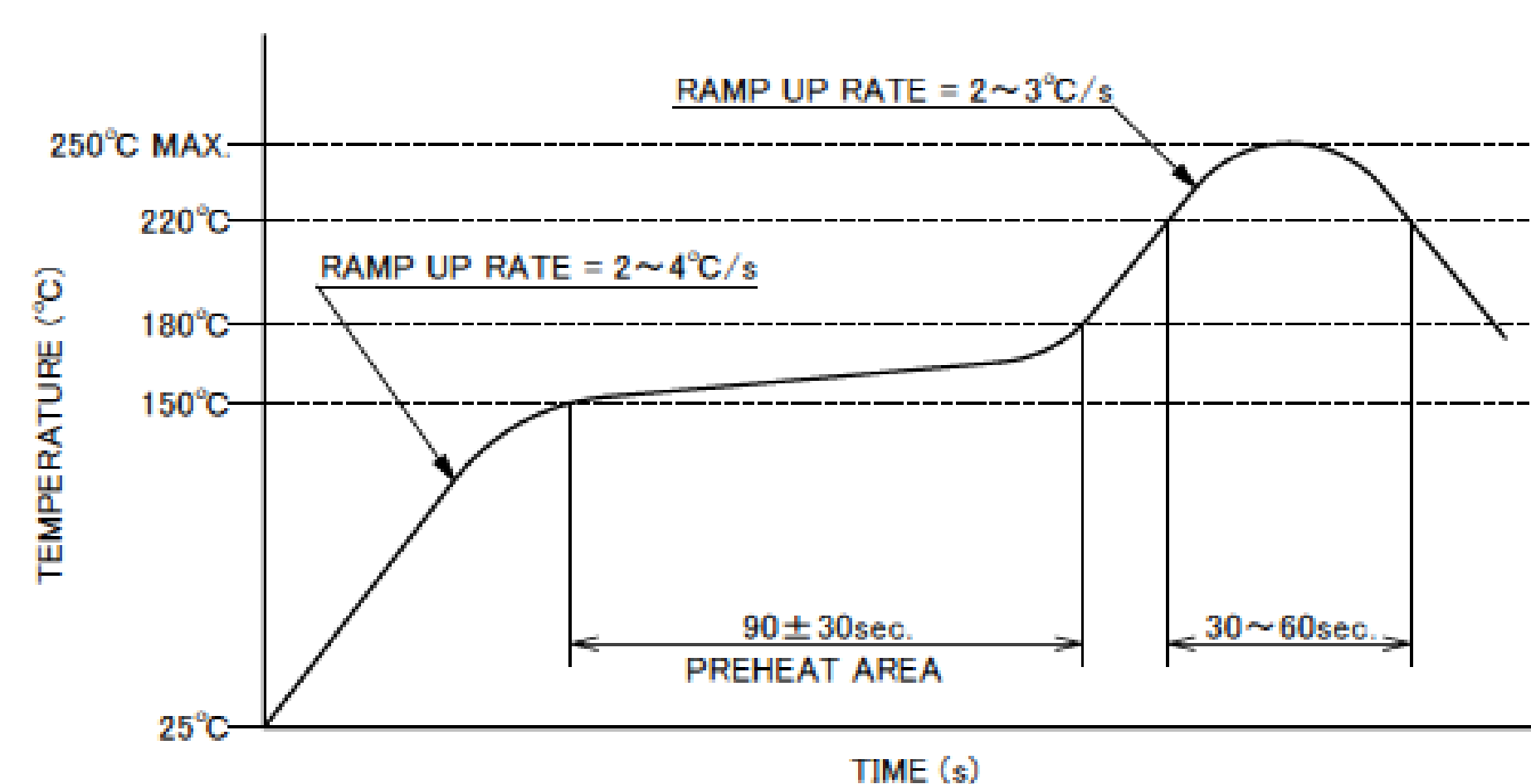
Connector Assembly



Rev.9



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/DC (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 : $\triangleleft$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH 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-2077
TEST REPORT	TR-15027
PACKING STANDARD	PST-15018
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

※ “n” IS THE NUMBER OF PIN

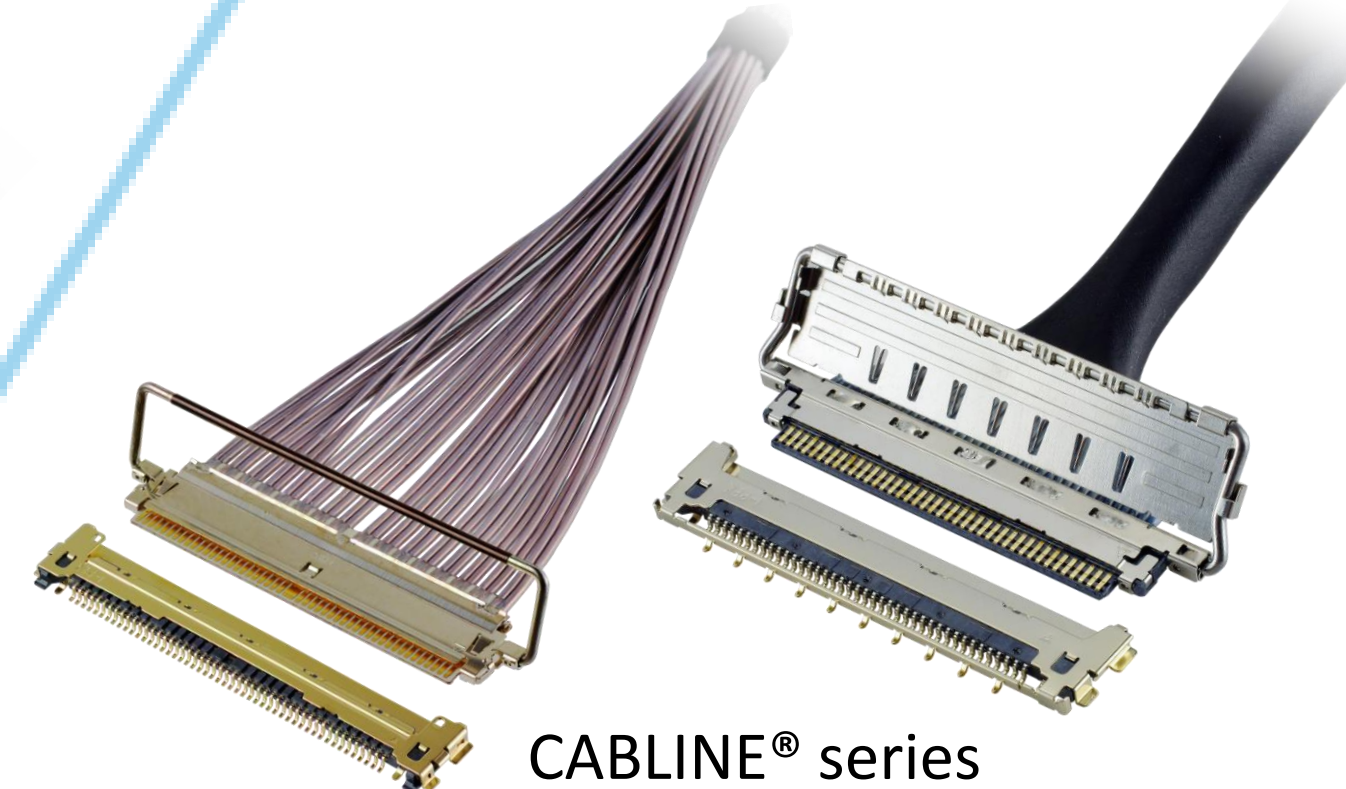
Custom Connectors Available

 RF
Connectors

MHF® series



Micro-coaxial/Twinax
Connectors

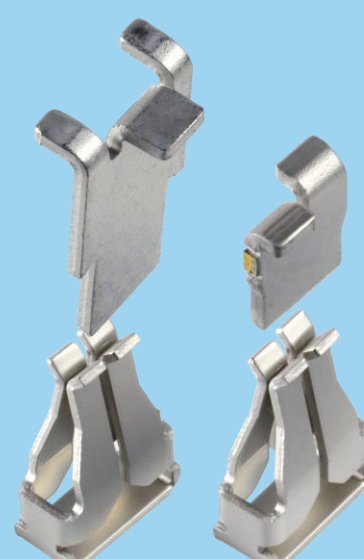


CABLIME® series

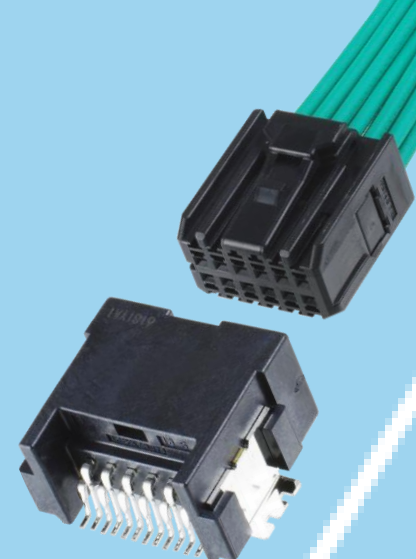


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



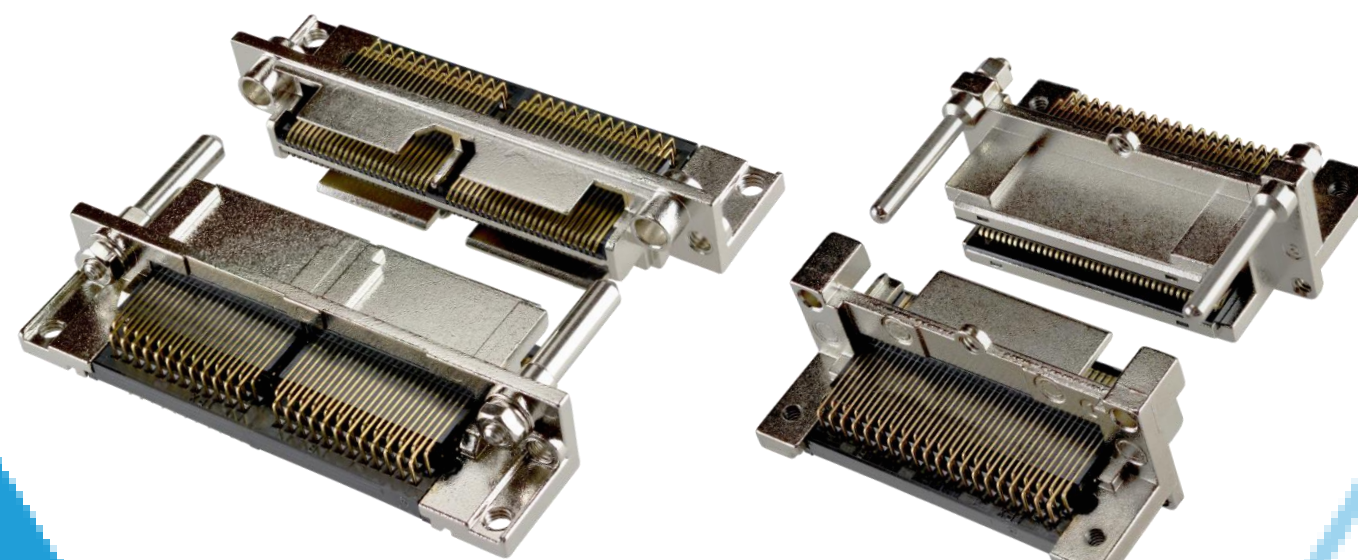
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



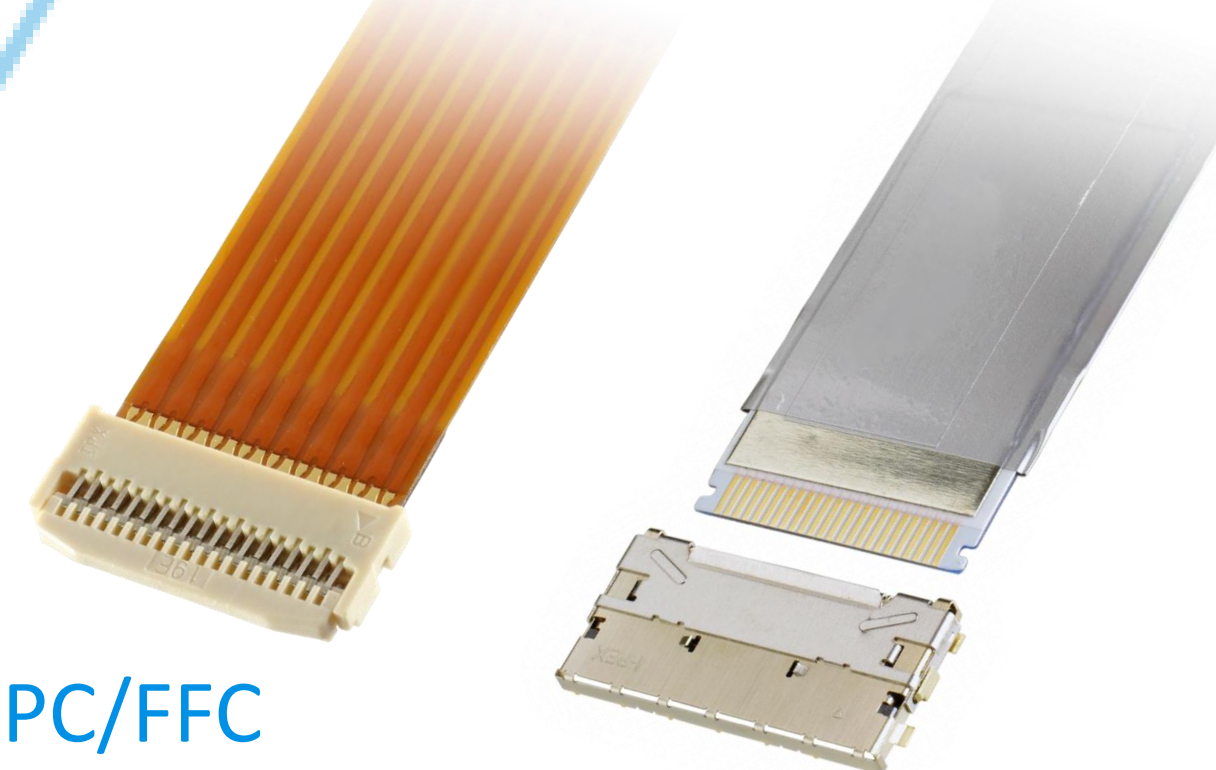
MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series

EVAFLEX® series



Inquiry



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