MINIFLEX® 3-BFN L-HD

0.3 mm 間距、0.9 mm 高度、配備固定腳位設計、水平插拔、後掀式 FPC 連接器

Product Specifications:

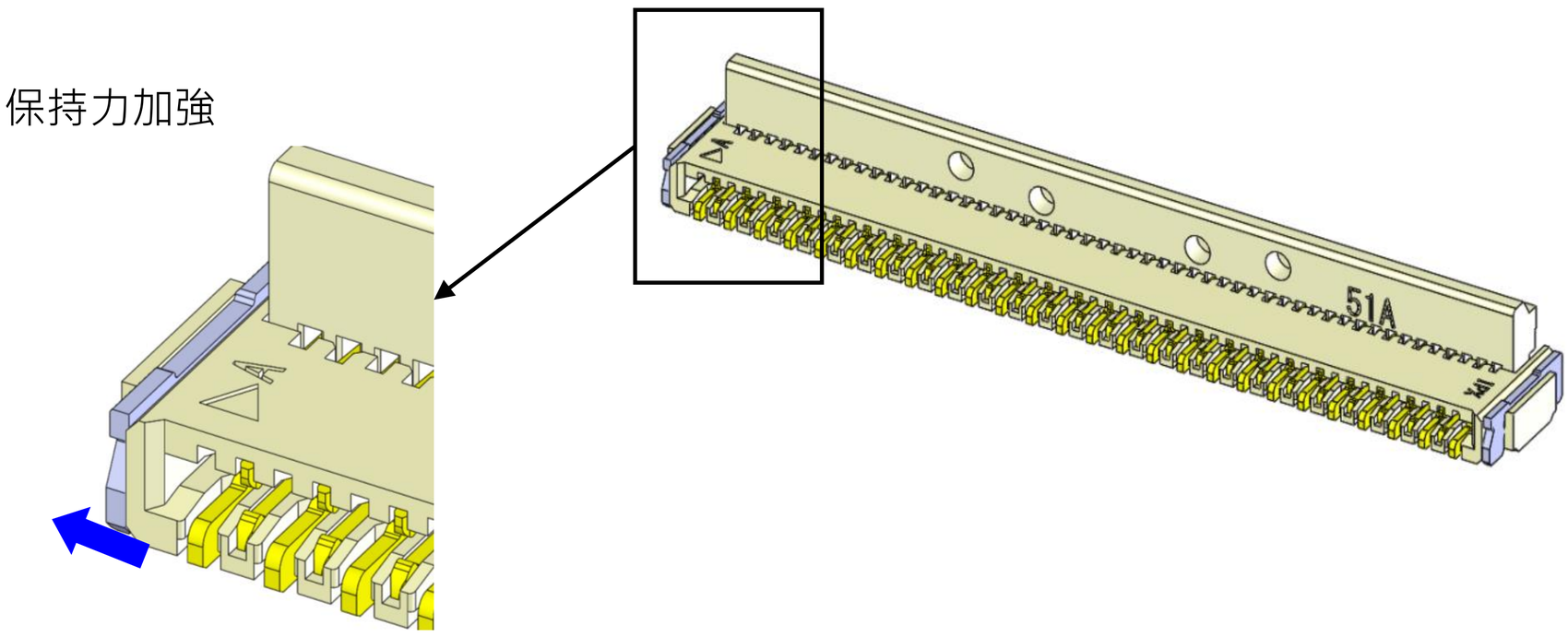
Contact Pitch		0.3 mm
Board Pitch		0.6 mm
Contact Mating Length		Contact A: 0.9 mm
		Contact B: 0.45 mm
Mated Size	Height	0.9 +/- 0.1 mm
	Width	1.5 + (0.3 x pin count) mm
	Depth	Open: 2.55 mm
		Close: 3.5 mm
Available Pin Count *		51

*若有規格外 P in數需求,請與當地負責業務窗口聯繫。

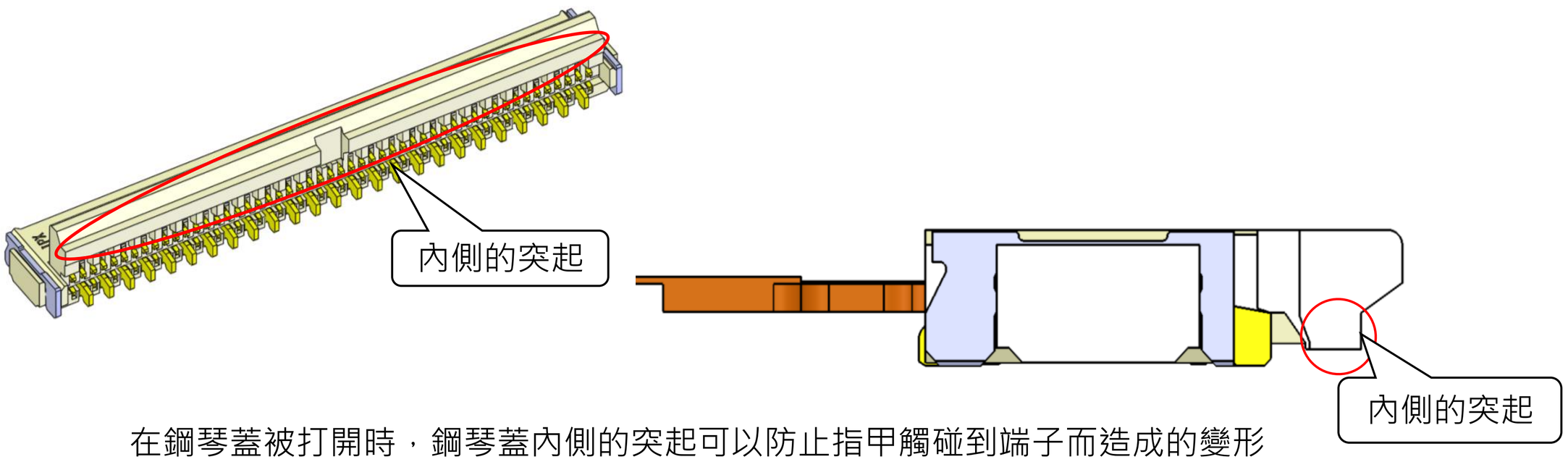
Applicable FPC/FFC:

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

Hold down 設計加強側壁力度



防止端子變形的結構

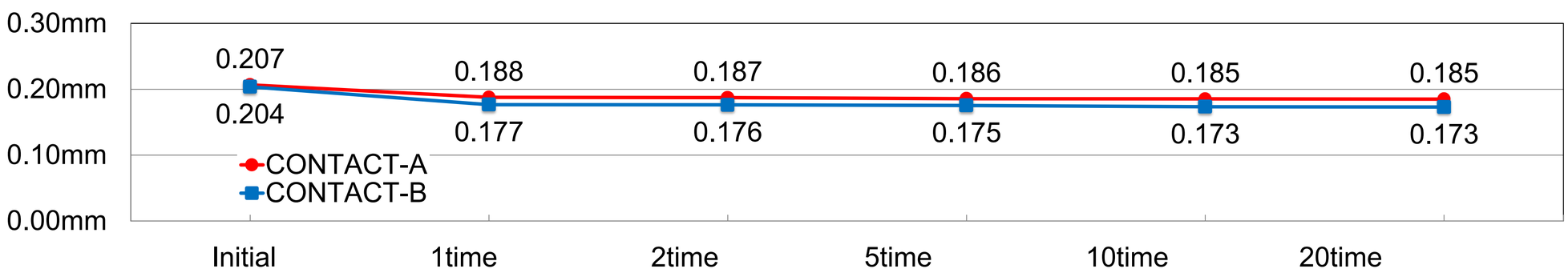


在鋼琴蓋被打開時，鋼琴蓋內側的突起可以防止指甲觸碰到端子而造成的變形

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)



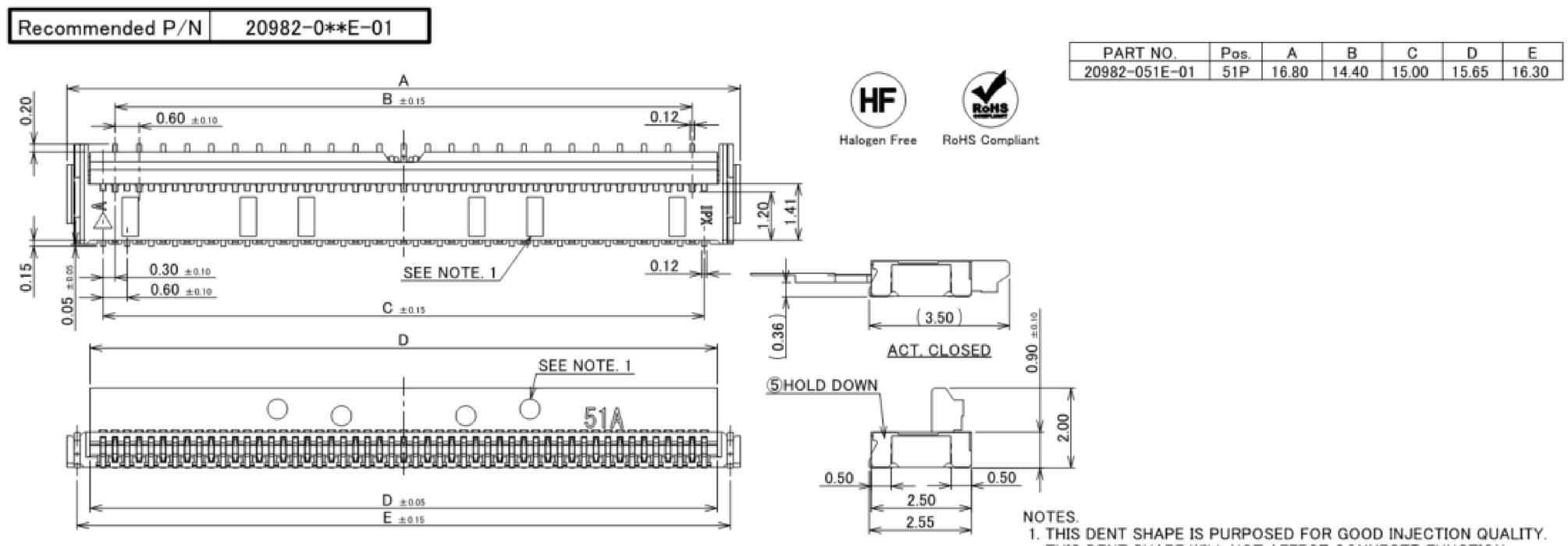
■ FPC插入力上升

■ 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
20982-051E-01	51P	16.80	14.40	15.00	15.65	16.30

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.

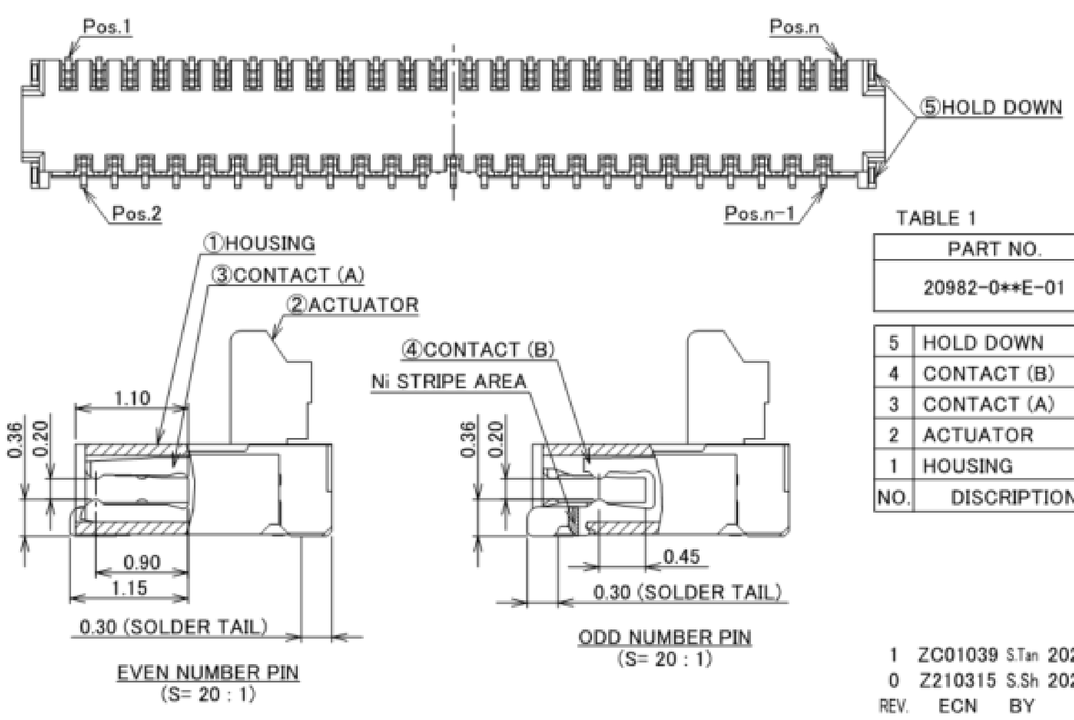


TABLE 1

PART NO.	FINISH
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.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
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

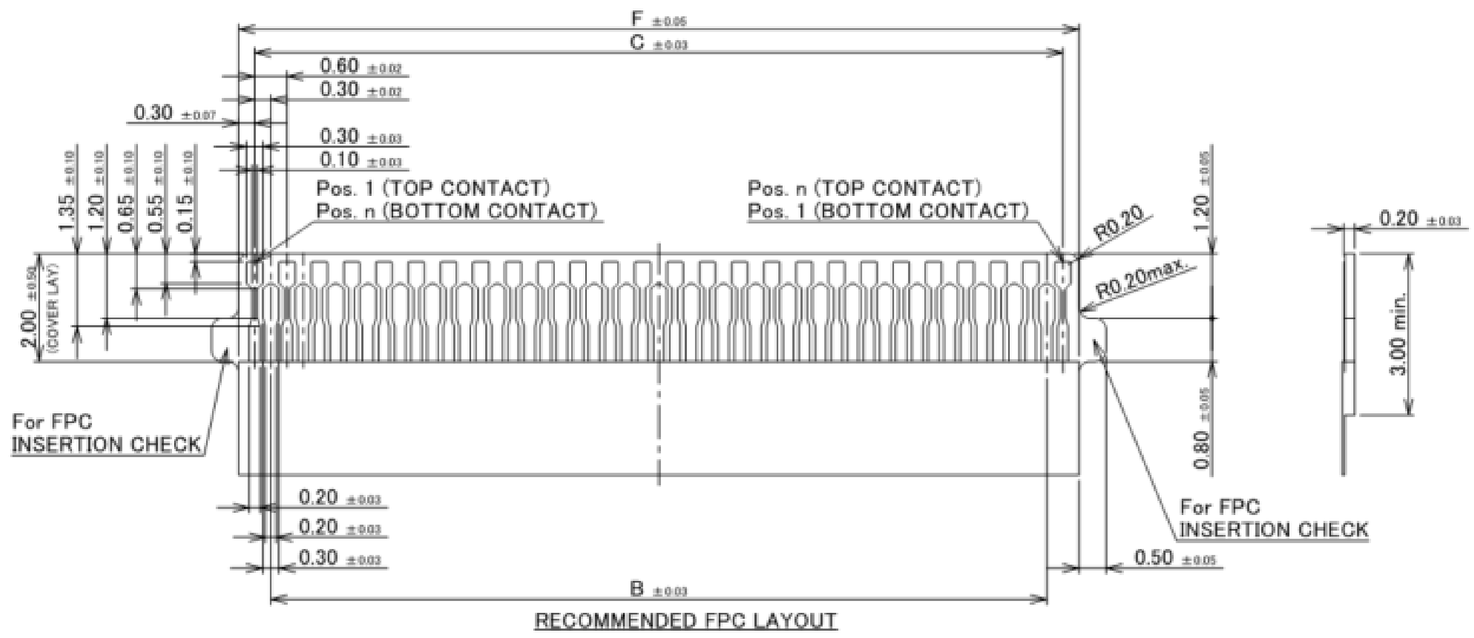
REV.	ECN	BY	DATE	APP.
1	ZC01039	S.Tan	2026/10/09	H.I
0	Z210315	S.Sh	2021/03/24	-

±0.2 ±0.3 ±0.5 | PROJECTION | SERIES No. R0 | CUSTOMER COPY
DWG. S.Shigekoshi DATE 2021/03/24
CHK. M.Muro
APP.
TITLE MINIFLEX® 3-BFN L-HD
SCALE 10:1
UNIT mm
DWG. No.
SIZE SHEET REV.
I-PEX

Rev.1

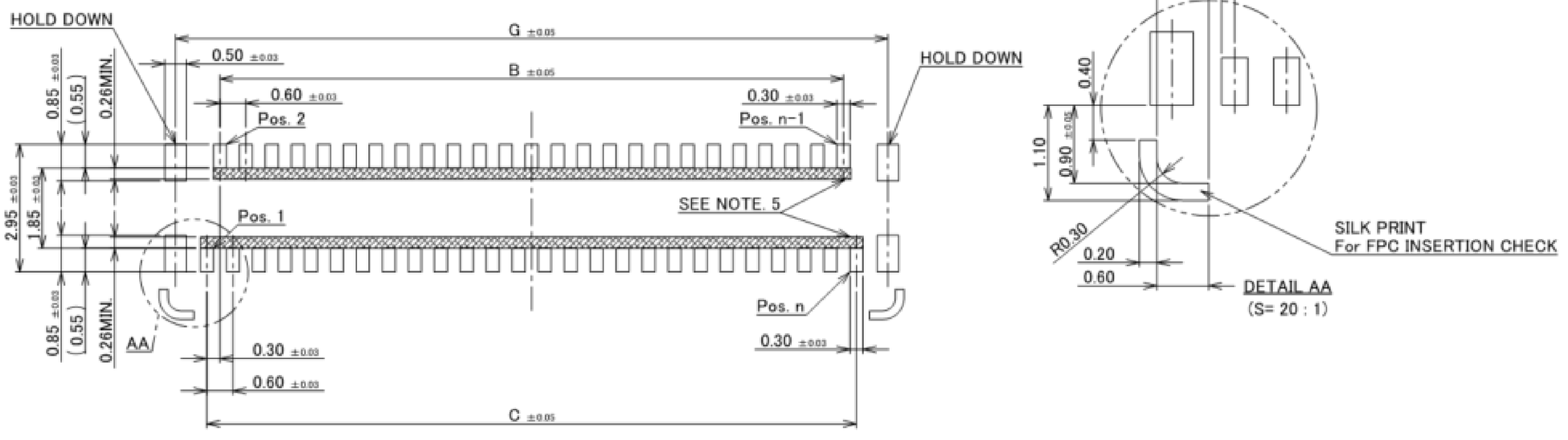
Connector Assembly

PART NO.	Pos.	B	C	F	G
20982-051E-01	51P	14.40	15.00	15.60	16.45

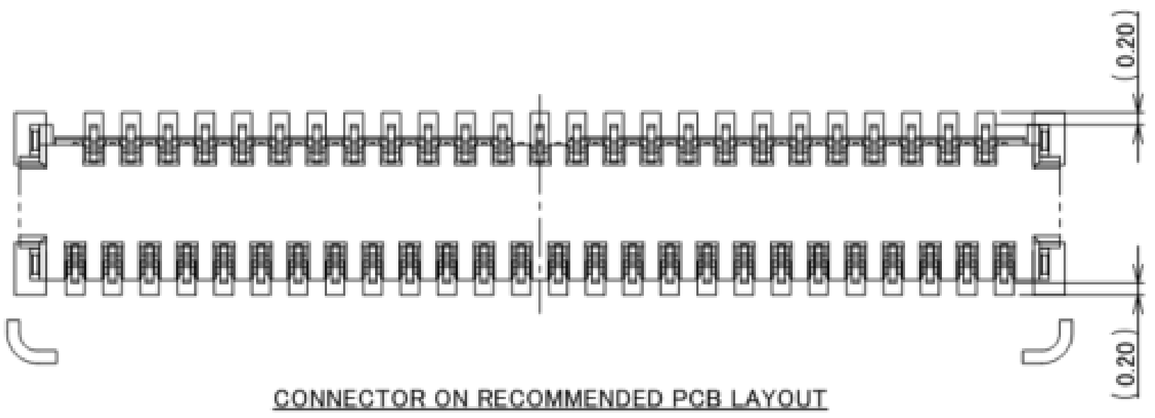


RECOMMENDED FPC LAYOUT

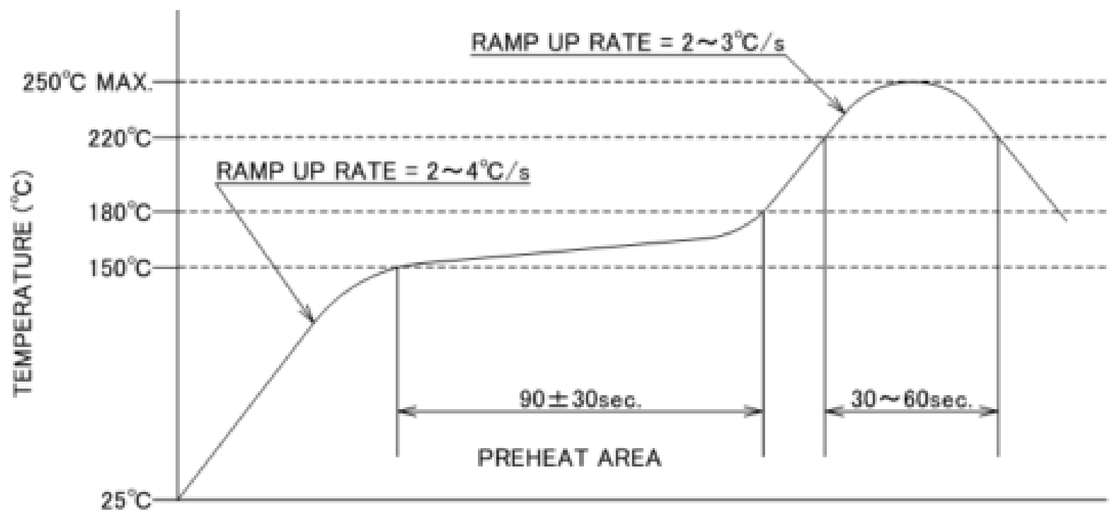
NOTES.
3. MATERIAL
   COVER FILM : PI
   CONDUCTOR : COPPER(RARE)
   BASE FILM : PI
   STIFFENER : PI
   ADHESIVE : THERMOSETTING ADHESIVE
4. FINISH
   Au OVER Ni UNDER PLATING.
5. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



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

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 : ⊿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

Rev.1

Custom Connectors Available

RF Connectors

MHF® series

Micro-Coaxial/Twinaxial Connectors

CABLINE® series

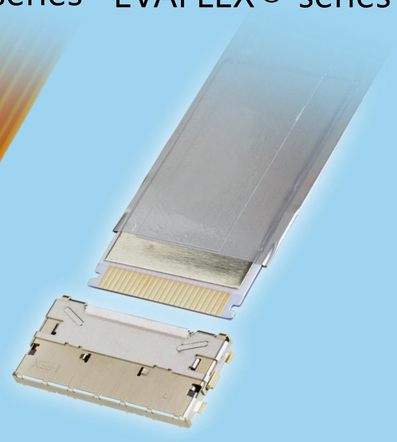
Wire-to-Board Connectors/ Terminals

AP series

ISH® series

MINIFLEX® series

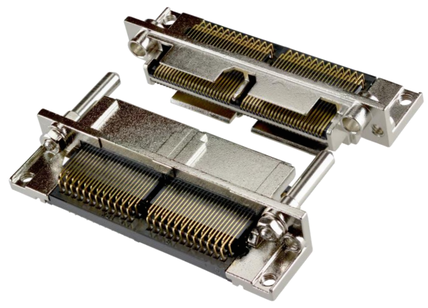
EVAFLEX® series



FPC/FFC Connectors

NOVASTACK® series

MINIDOCK™ series



Board-to-Board Connectors

Inquiry

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