

MINIFLEX® 3-BFNH L-HD

保持力加强，坚固的hold down 设计,较长钢琴盖,
低背(高度 0.9 mm), 0.3 mm间距, 水平插拔, 后锁式

Product Specifications:

Board Pitch		0.3 mm
Wiping Length	Contact A: 1.0 mm	
	Contact B: 0.45 mm	
Size	Height	0.90 +/- 0.10 mm
	Width	2.1 + (0.3 x pin count) mm
	Depth	Open: 2.95 mm Close: 3.50 mm
Pin Counts	Range	7 to 71
	Available	39, 61

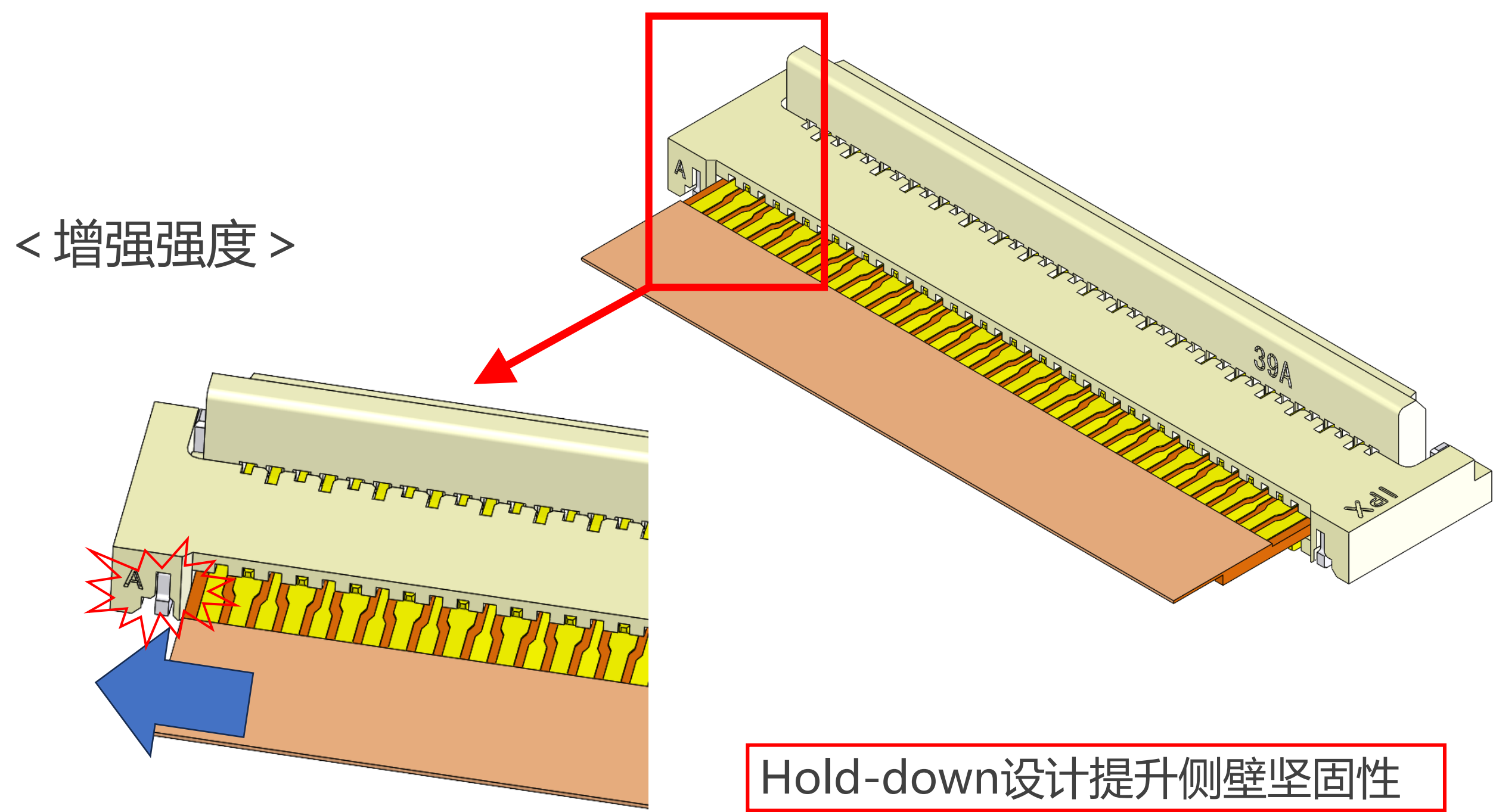
Applicable FPC/FFC:

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

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

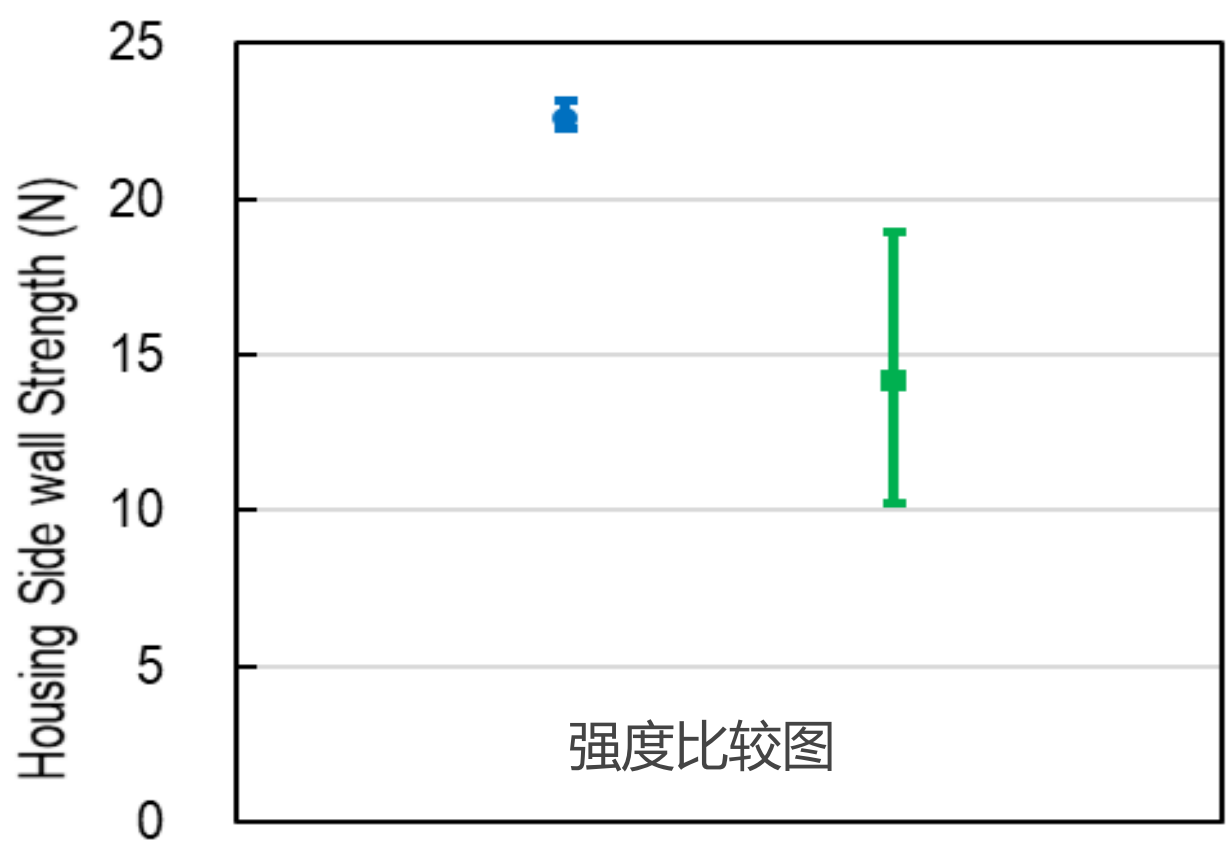


Hold down结构增强侧壁强度



侧壁强度对比表

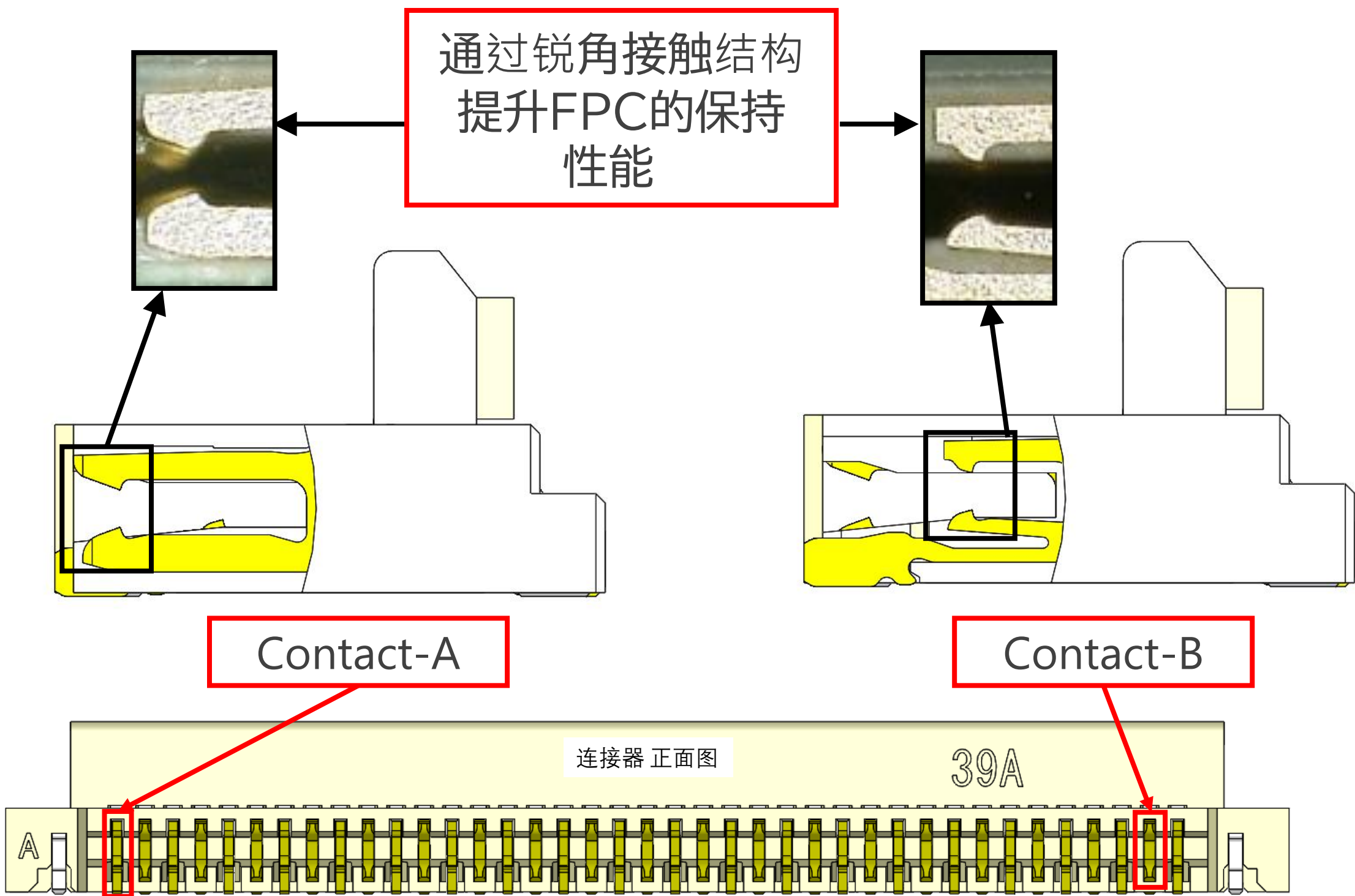
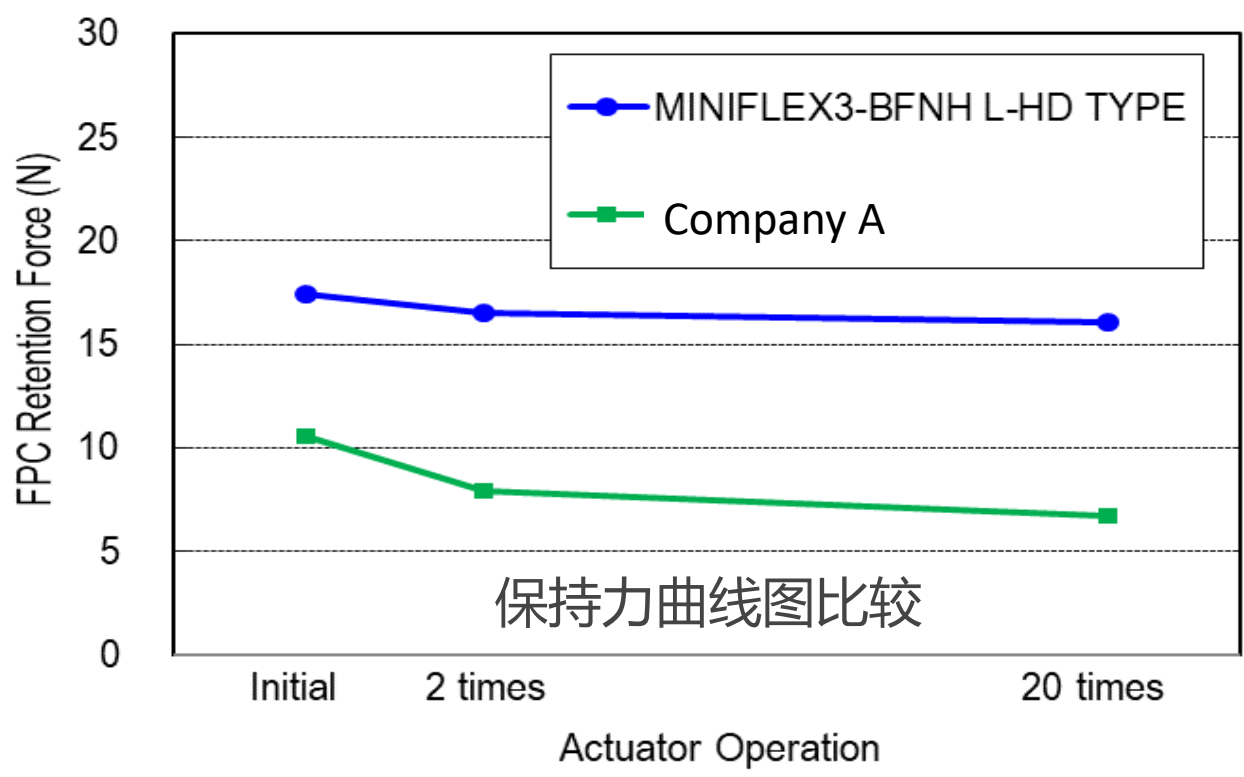
FPC thickness t=0.20	MINIFLEX 3-BFNH L-HD TYPE (39 pin)	Company A (Front Flip 39 pin)
AVE.	22.620 N	14.162 N
MAX.	23.15 N	18.94 N
MIN.	22.25 N	10.22 N



端子接触前缘的锐角设计可提供更强的柔性电路板（FPC）保持力

FPC保持力对比测试

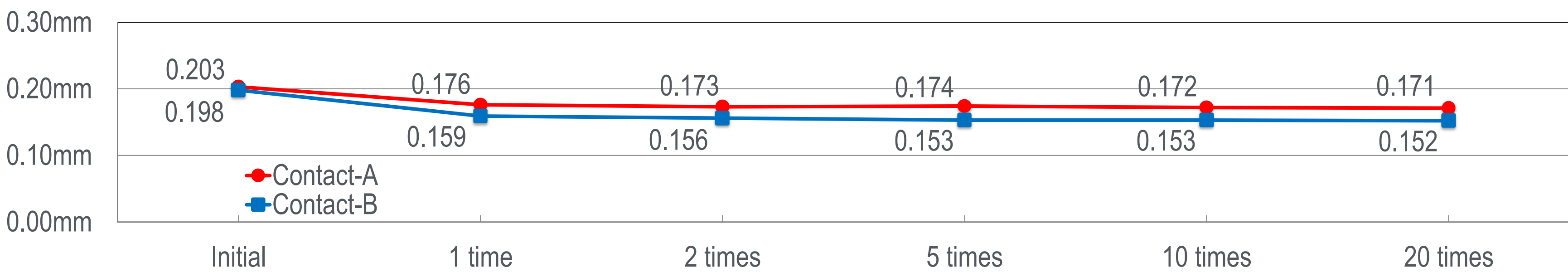
FPC thickness t=0.190	Initial	Actuator operation	
		After 2 times	After 20 times
MINIFLEX 3-BFNH L-HD TYPE (39 pin)	17.432 N	16.538 N	16.052 N
Company A (Front Flip 39 pin)	10.590 N	7.900 N	6.747 N



在没有插入 FPC 的情况下闭合钢琴盖，连接器仍可使用

在没有插入 FPC 的情况下闭合钢琴盖，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-BFNH L-HD 39 pins)



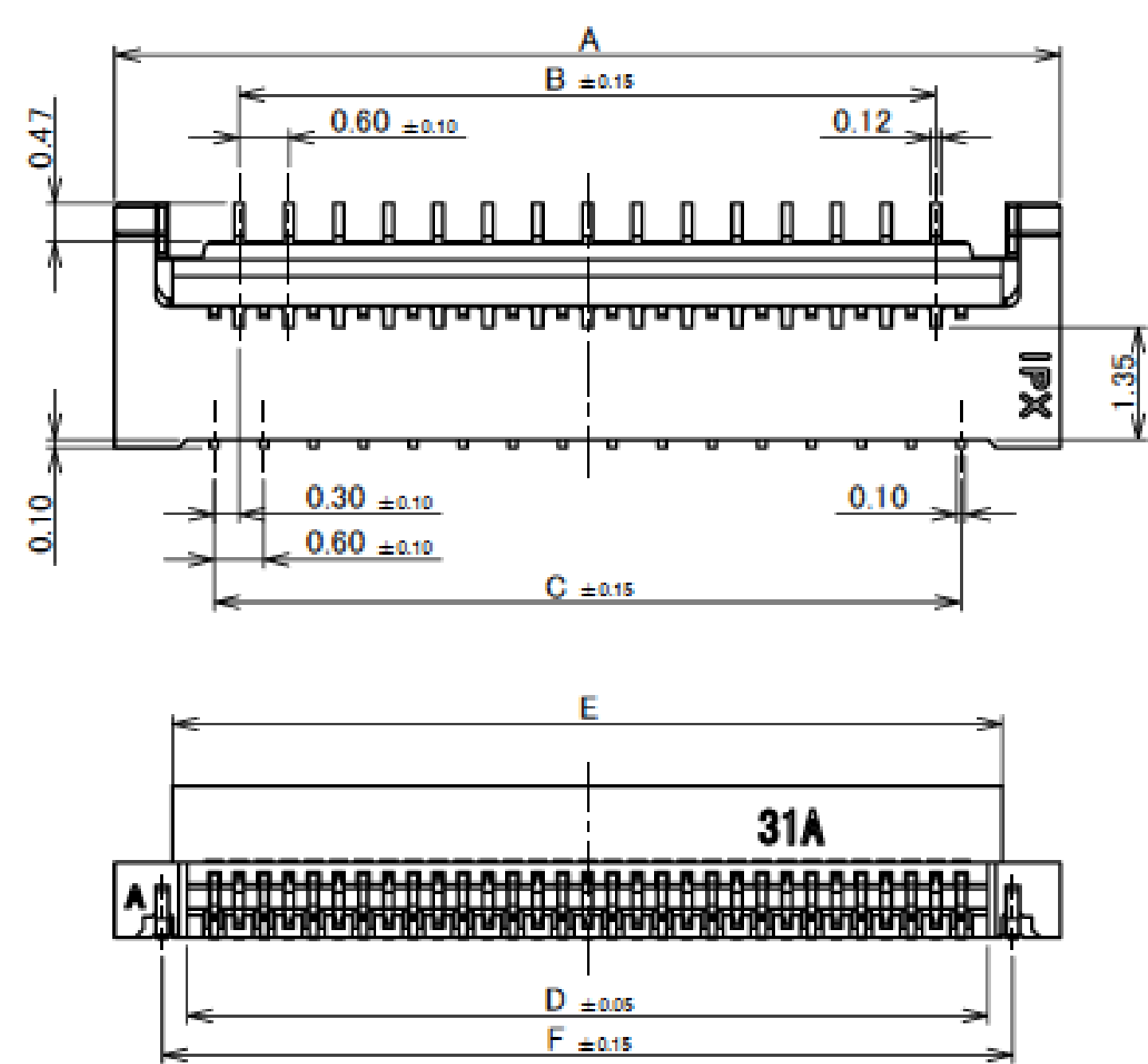
■ FPC插入力上升

■ FPC保持力无太大变化

Component Parts Details

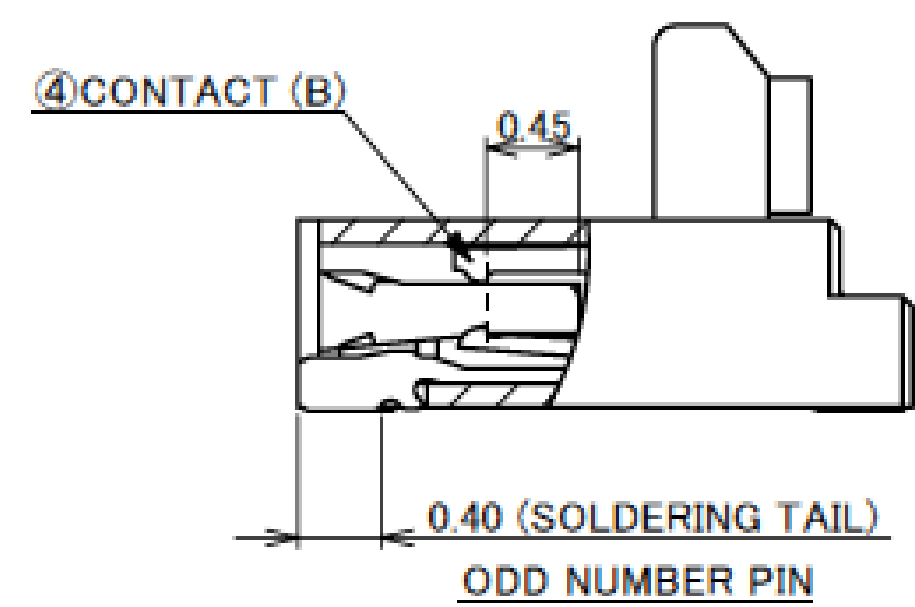
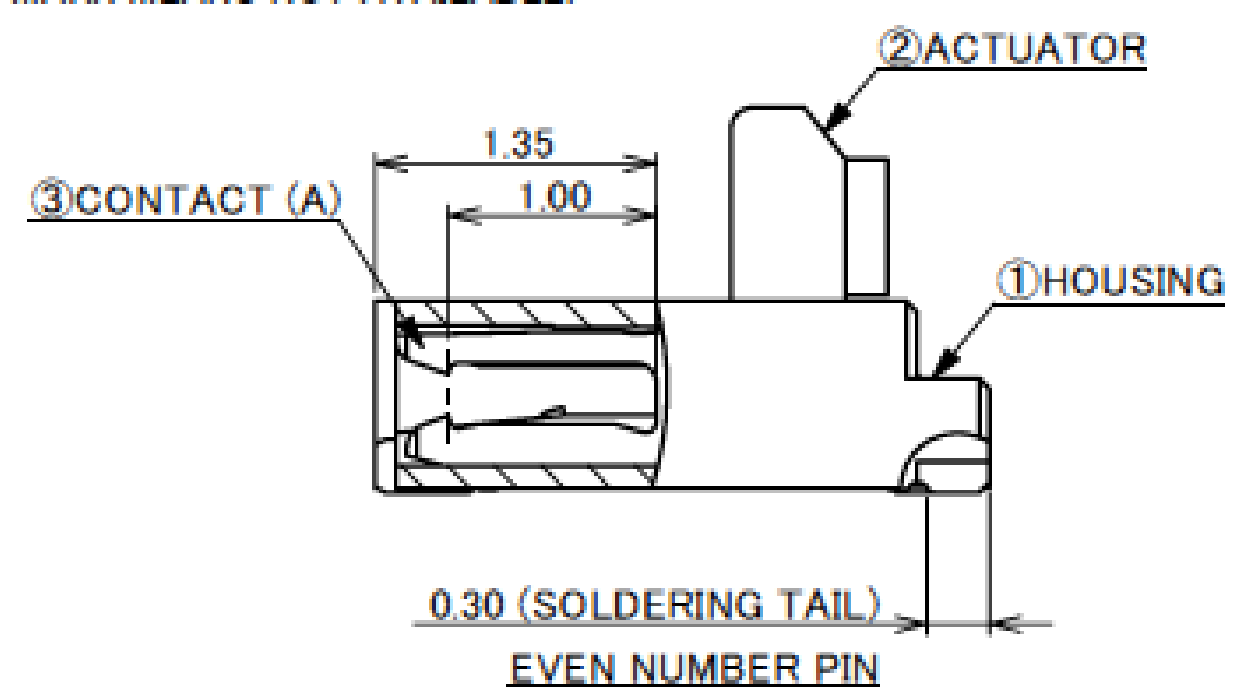
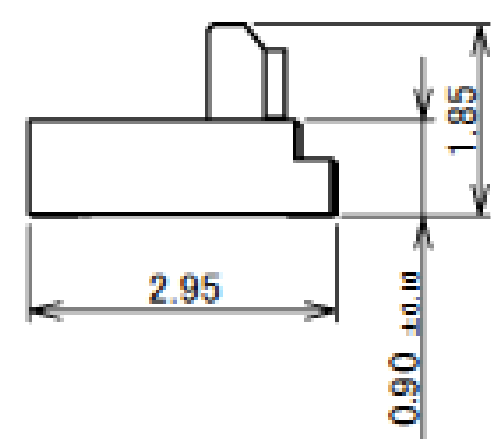
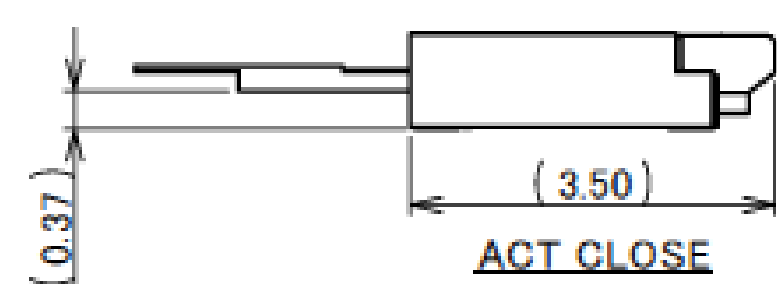
Connector Assembly

Recommended P/N 20660-0**E-01

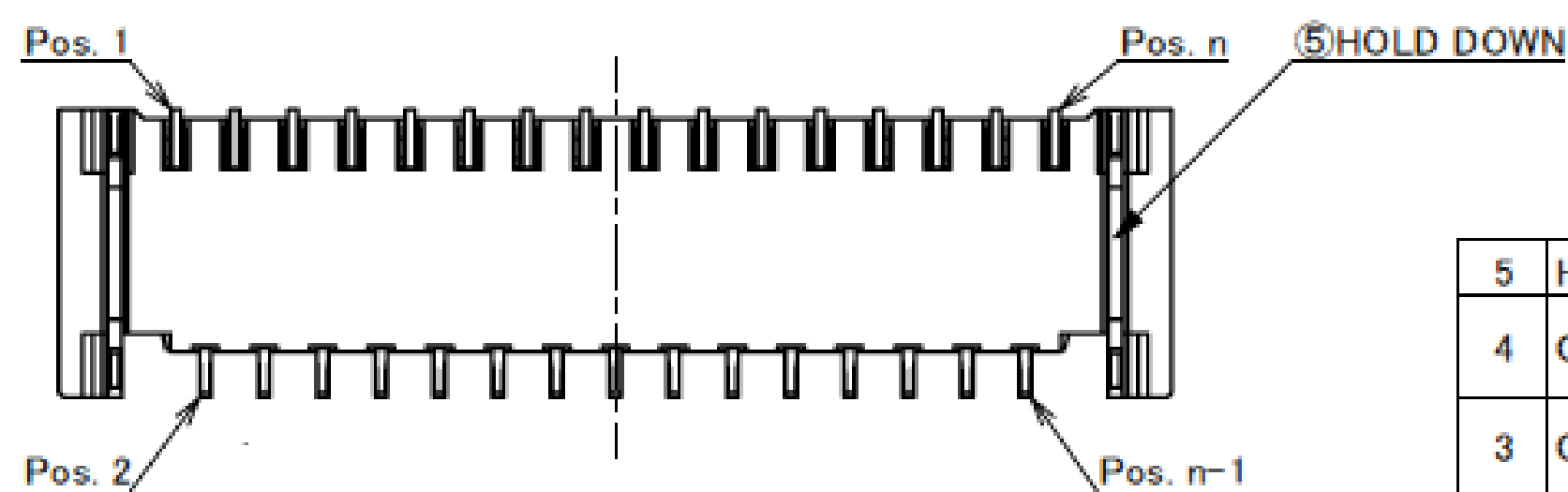


PART No.	Pos.	A	B	C	D	E	F
◆20660-031E-01	31P	11.40	8.40	9.00	9.65	10.00	10.25
20660-039E-01	39P	13.80	10.80	11.40	12.05	12.40	12.65
20660-061E-01	61P	20.40	17.40	18.00	18.65	19.00	19.25
◆20660-071E-01	71P	23.40	20.40	21.00	21.65	22.00	22.25

◆MARK MEANS NOT AVAILABLE.



NOTE
1. CONTACT POINT: TOP AND BOTTOM CONTACT

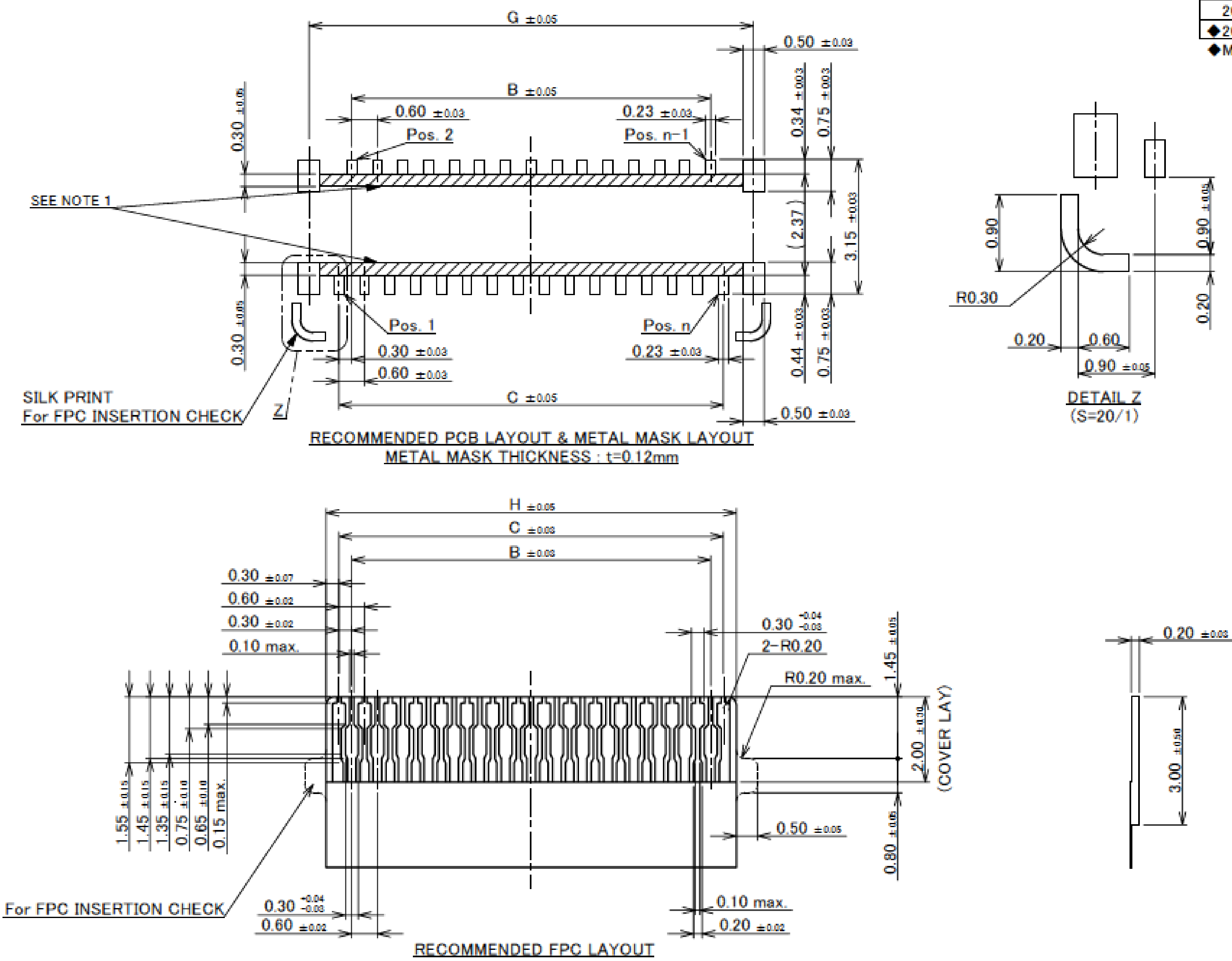


NO.	DISCRIPTION	MATERIAL	REMARKS
5	HOLD DOWN	BRASS	
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.0 μ m MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.0 μ m MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE

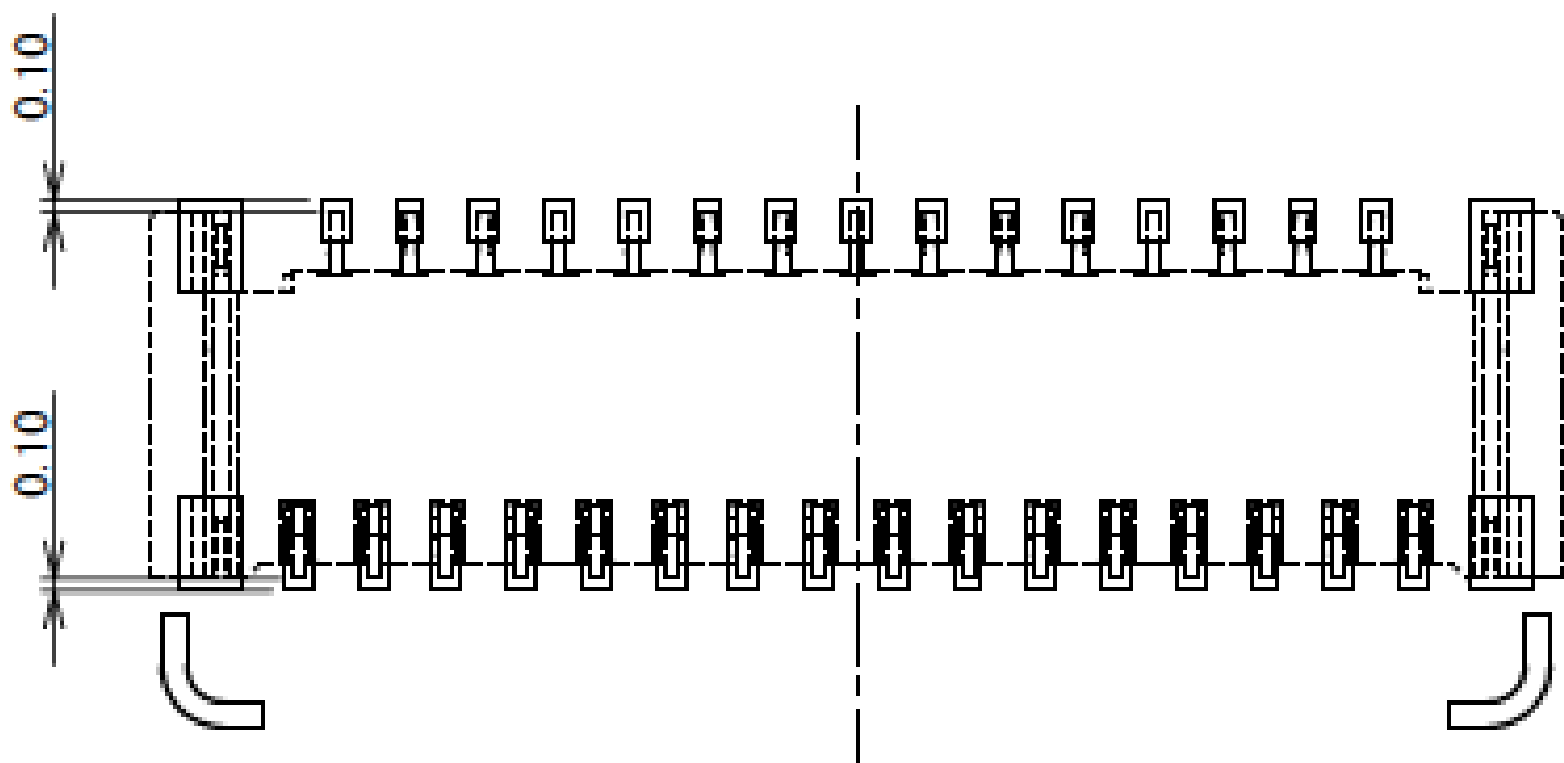
Connector Assembly

PART No.	Pos.	B	C	G	H
◆20660-031E-01	31P	8.40	9.00	10.40	9.60
20660-039E-01	39P	10.80	11.40	12.80	12.00
20660-061E-01	61P	17.40	18.00	19.40	18.60
◆20660-071E-01	71P	20.40	21.00	22.40	21.60

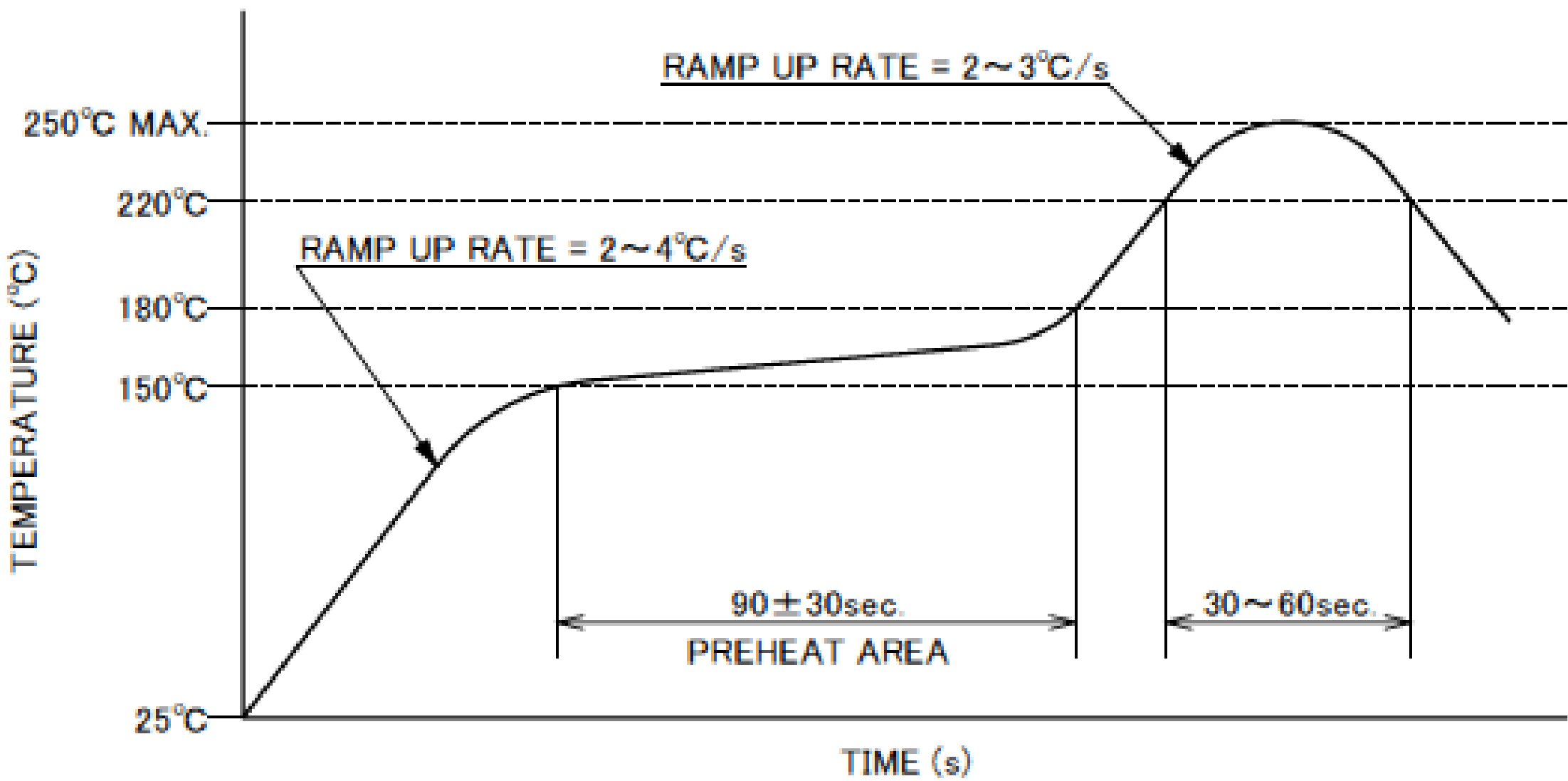
◆MARK MEANS NOT AVAILABLE.



Rev.11



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.11

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangleleft$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.245N(24.5gf) × n MAX. / 20TH CYCLES : 0.245N(24.5gf) × n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.014N(1.4gf) × n MIN. / 20TH 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-2073
TEST REPORT	TR-15025
PACKING STANDARD	PST-15042
INSTRUCTION MANUAL	HIM-14004
APPEARANCE CRITERIA No.	QLS-A***

※ “n” IS THE NUMBER OF PIN



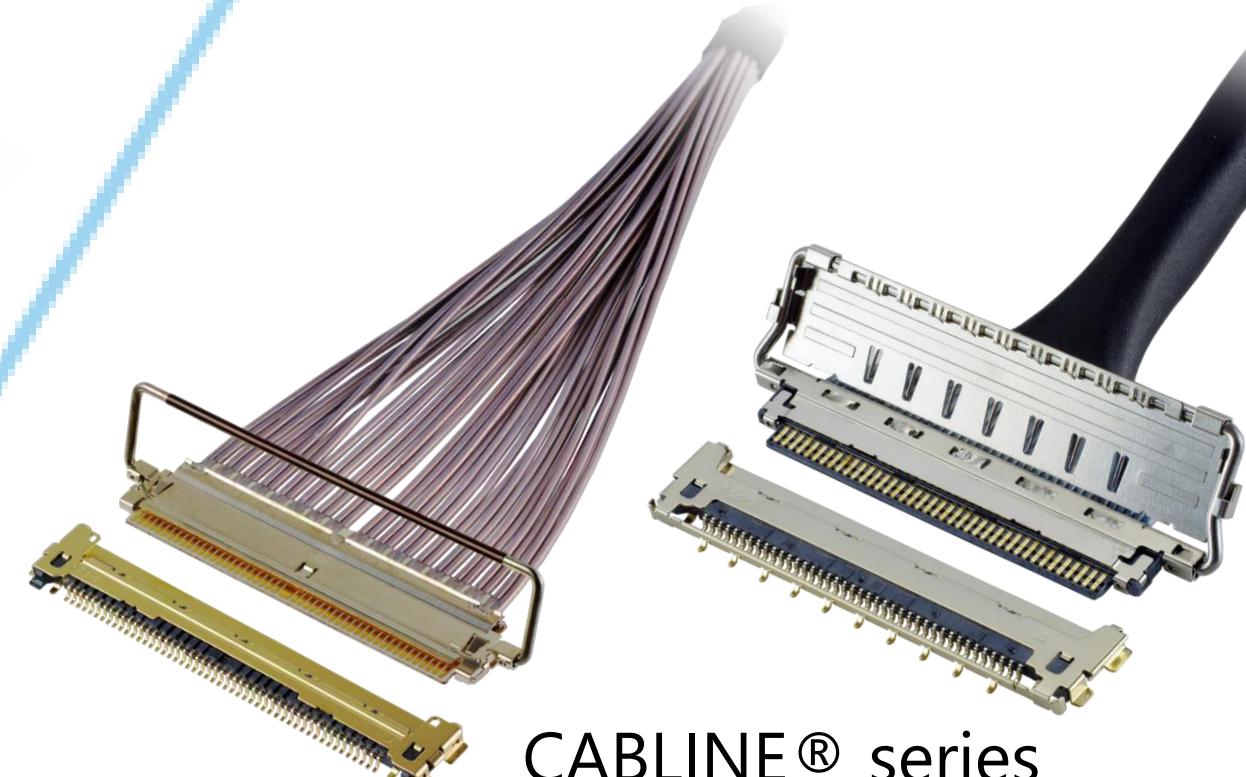
CAUTION

PLEASE BE SURE TO READ AND UNDERSTAND “INSTRUCTION MANUAL” BEFORE YOU USE OUR PRODUCTS.

Custom Connectors Available

RF Connectors

MHF® series



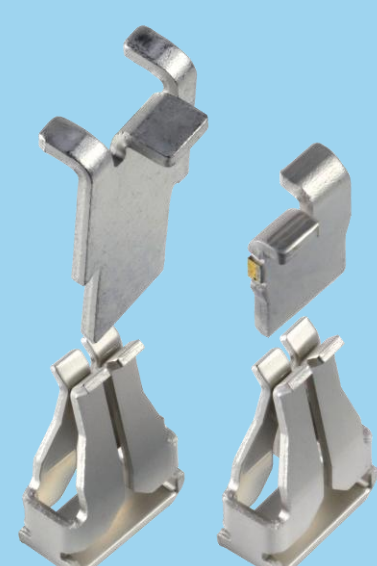
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

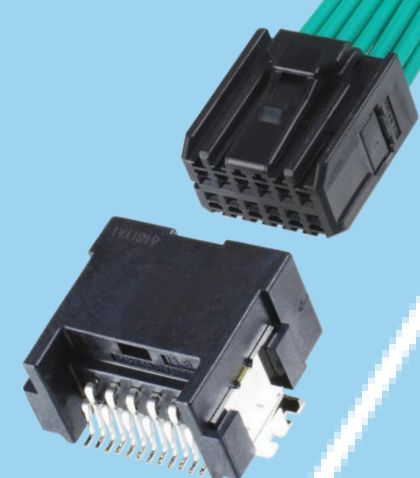


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



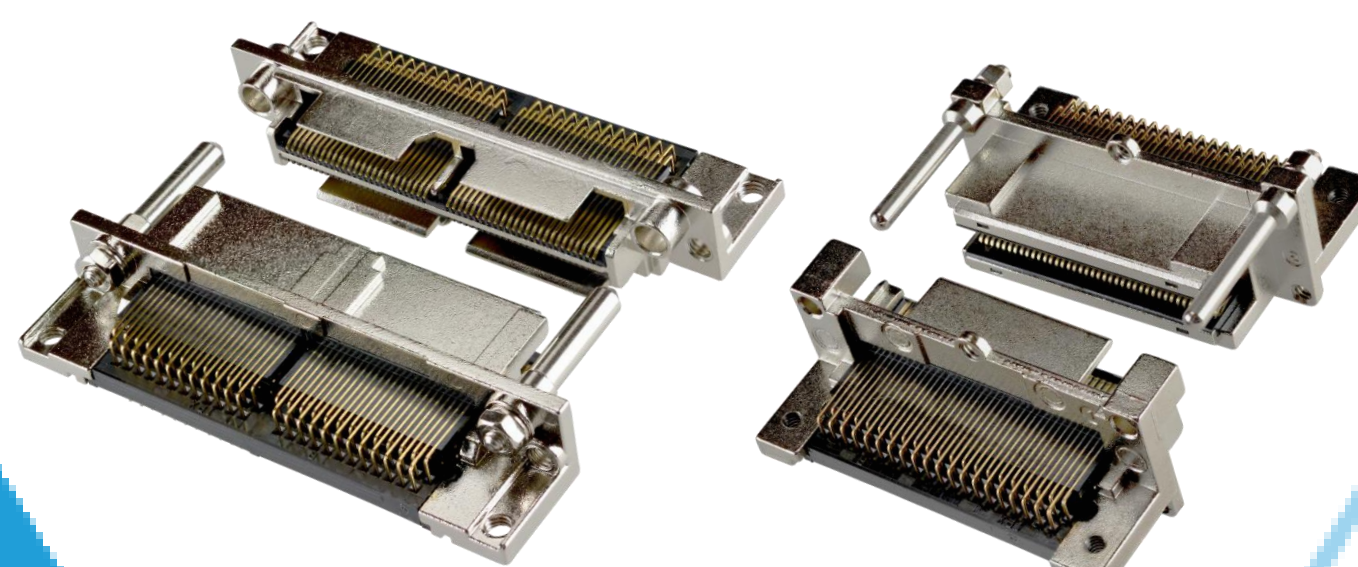
NOVASTACK® series



Board-to-Board Connectors

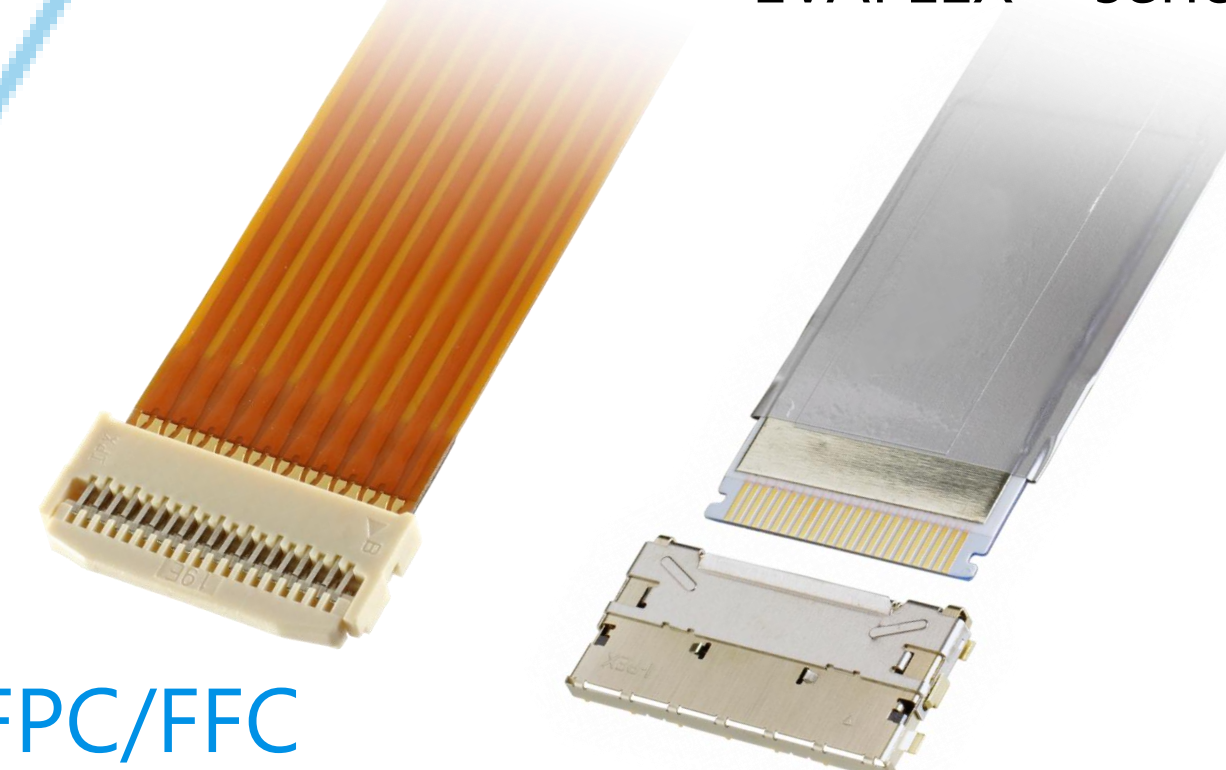


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK, i-Fit and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative
or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2025
All rights reserved