

MINIFLEX® 4-ST

초저배 (높이 = 0.5 mm), 0.4 mm Pitch, 수평 결합, 백플립

Product Specifications:

Board Pitch (mm)		0.4
Wiping Length (mm)		0.8
Size (mm)	Height	0.50 +/- 0.05
	Width	Formula: 1.9+(0.4*?p)
	Depth	Open: 2.7 Close: 3.0
Pin counts	Range	4-15
	Available	4, 6, 8, 10, 12

Applicable FPC/FFC:

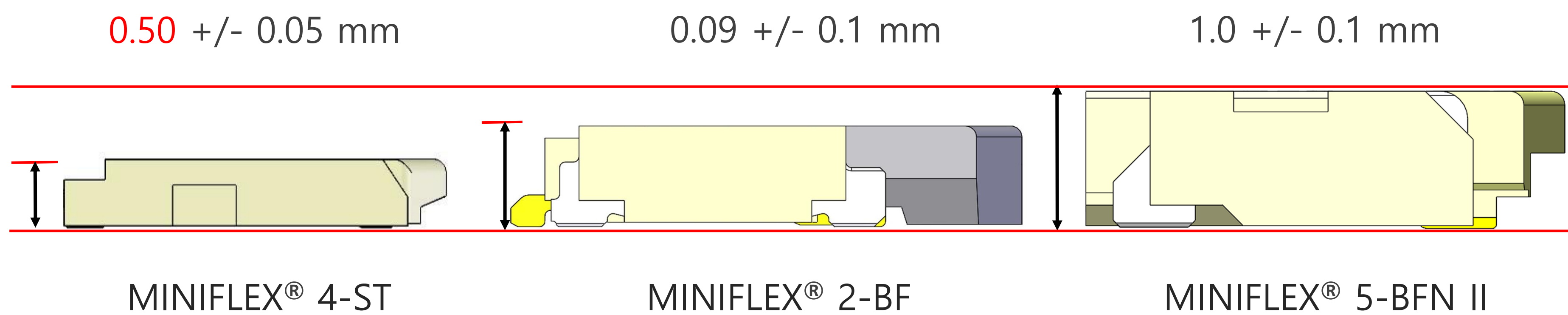
FPC/FFC Contact Pitch	0.4
FPC/FFC Contact Point	Top
FPC/FFC Thickness (mm)	0.12 +/- 0.03

*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

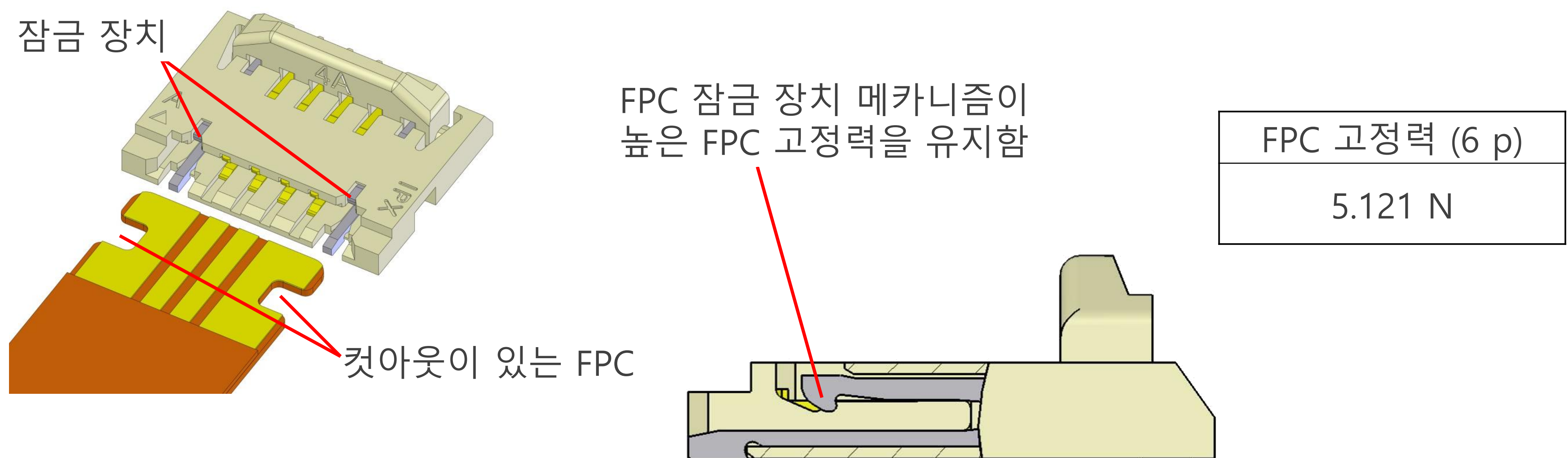


▶ 초저배 높이 0.5 mm

MINIFLEX 시리즈 제품 라인업에서 가장 높이가 낮습니다



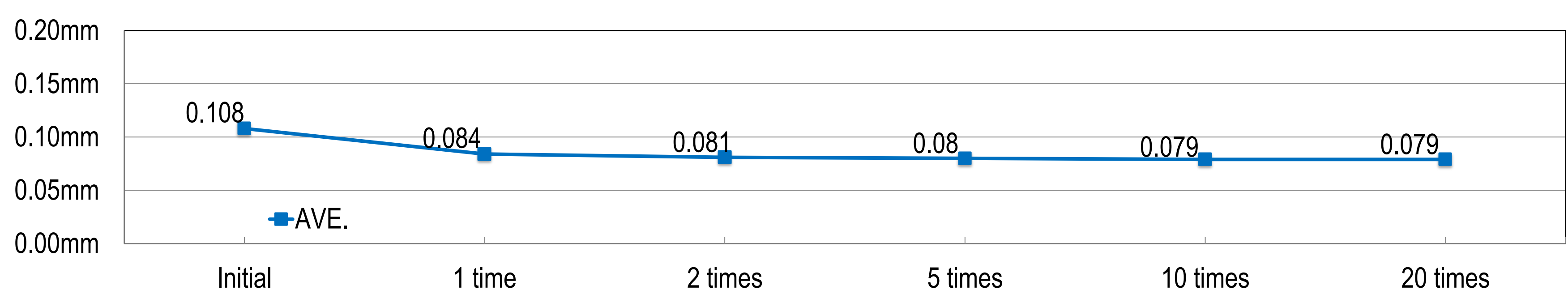
▶ 기계식 Lock 기능에 의한 높은 FPC 유지력



▶ FPC 미삽입 상태에서도 액추에이터 닫기 조작 가능(단자 변형 최소화)

SMT 공정 후에 FPC를 삽입하지 않고 우연히 액추에이터를 닫은 경우에도 Contact 변형 최소화

- 커넥터가 여전히 안정적으로 작동합니다(FPC를 삽입하지 않은 상태에서 액추에이터 작동 전후 접촉 간격 그래프 10핀)



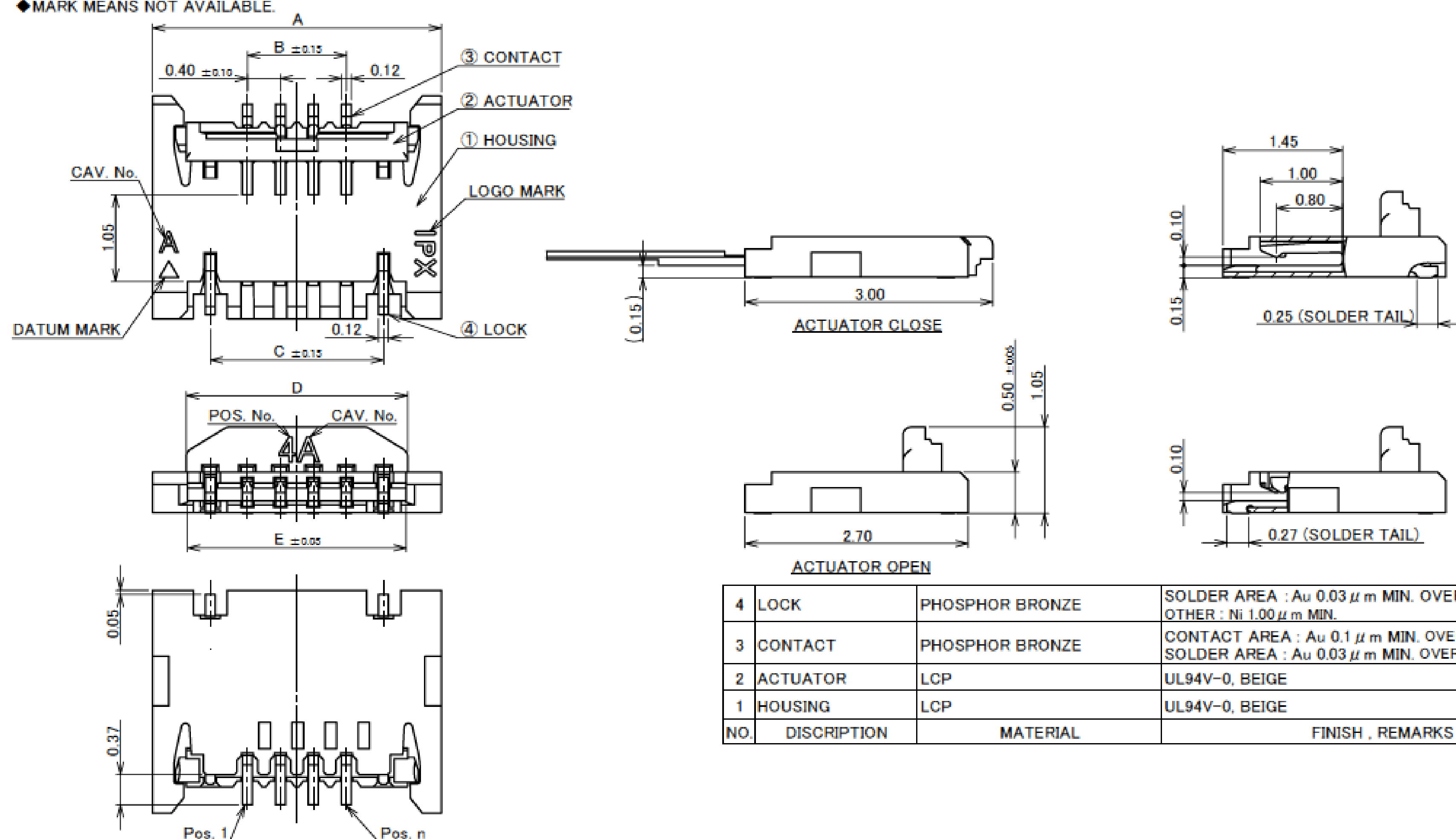
- 커넥터의 삽입력 상승
- 커넥터의 고정력은 큰 변화 없음

Component Parts Details

Connector Assembly

Recommended P/N		20588-0**E-01				
PART No.	Pos.	A	B	C	D	E
20588-004E-01	4P	3.50	1.20	2.10	2.68	2.65
20588-006E-01	6P	4.30	2.00	2.90	3.48	3.45
20588-008E-01	8P	5.10	2.80	3.70	4.28	4.25
20588-010E-01	10P	5.90	3.60	4.50	5.08	5.05
20588-012E-01	12P	6.70	4.40	5.30	5.88	5.85
◆ 20588-014E-01	14P	7.50	5.20	6.10	6.68	6.65
◆ 20588-015E-01	15P	7.90	5.60	6.50	7.08	7.05

◆ MARK MEANS NOT AVAILABLE.

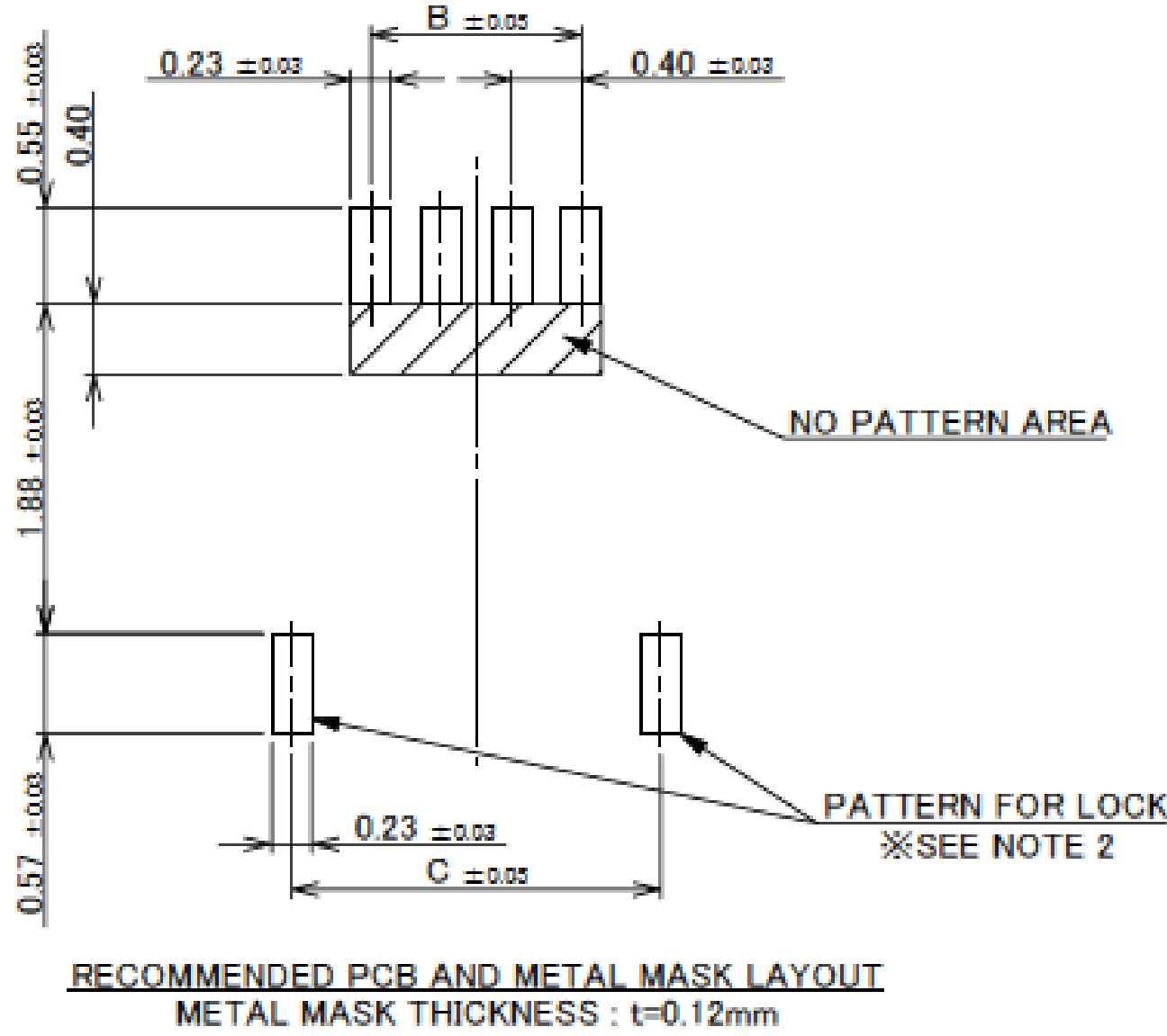
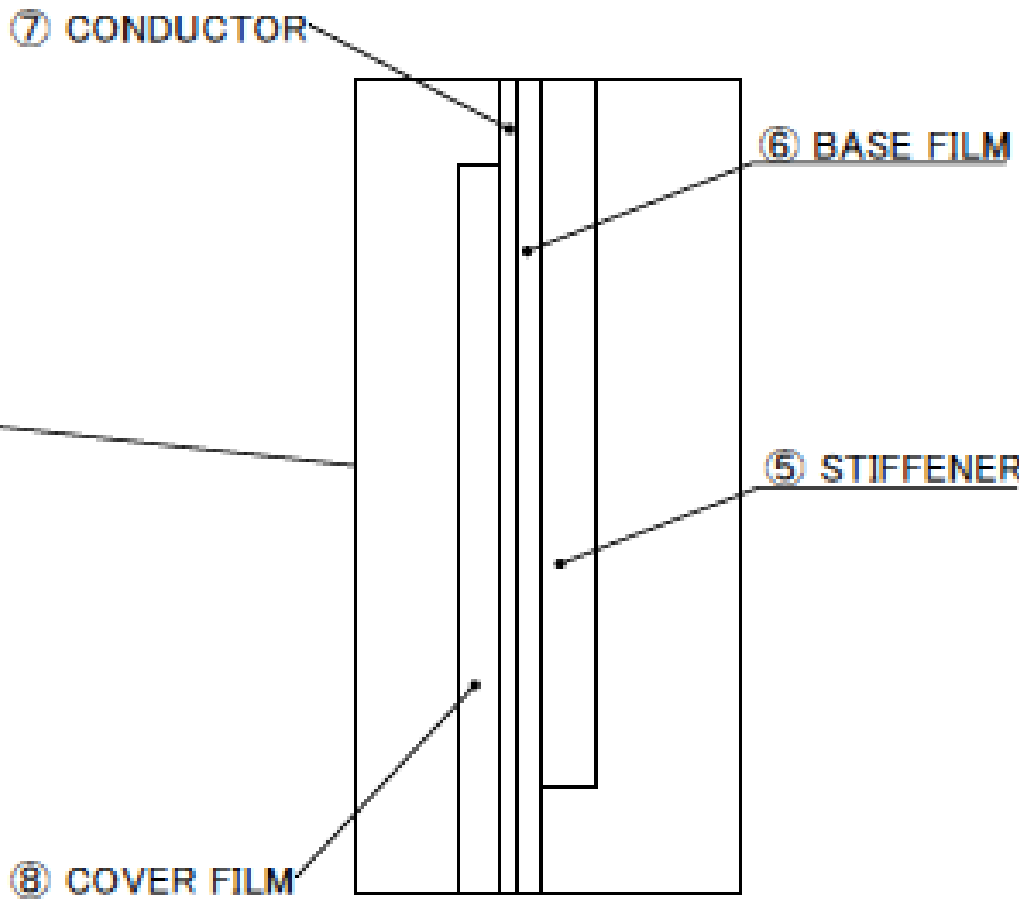
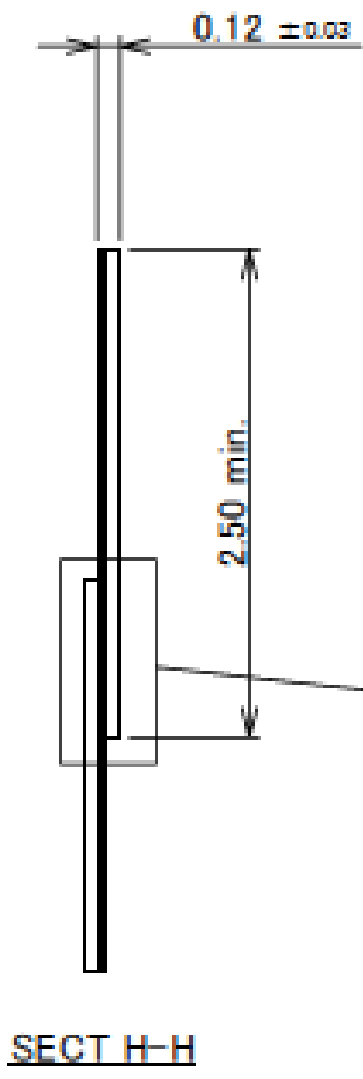
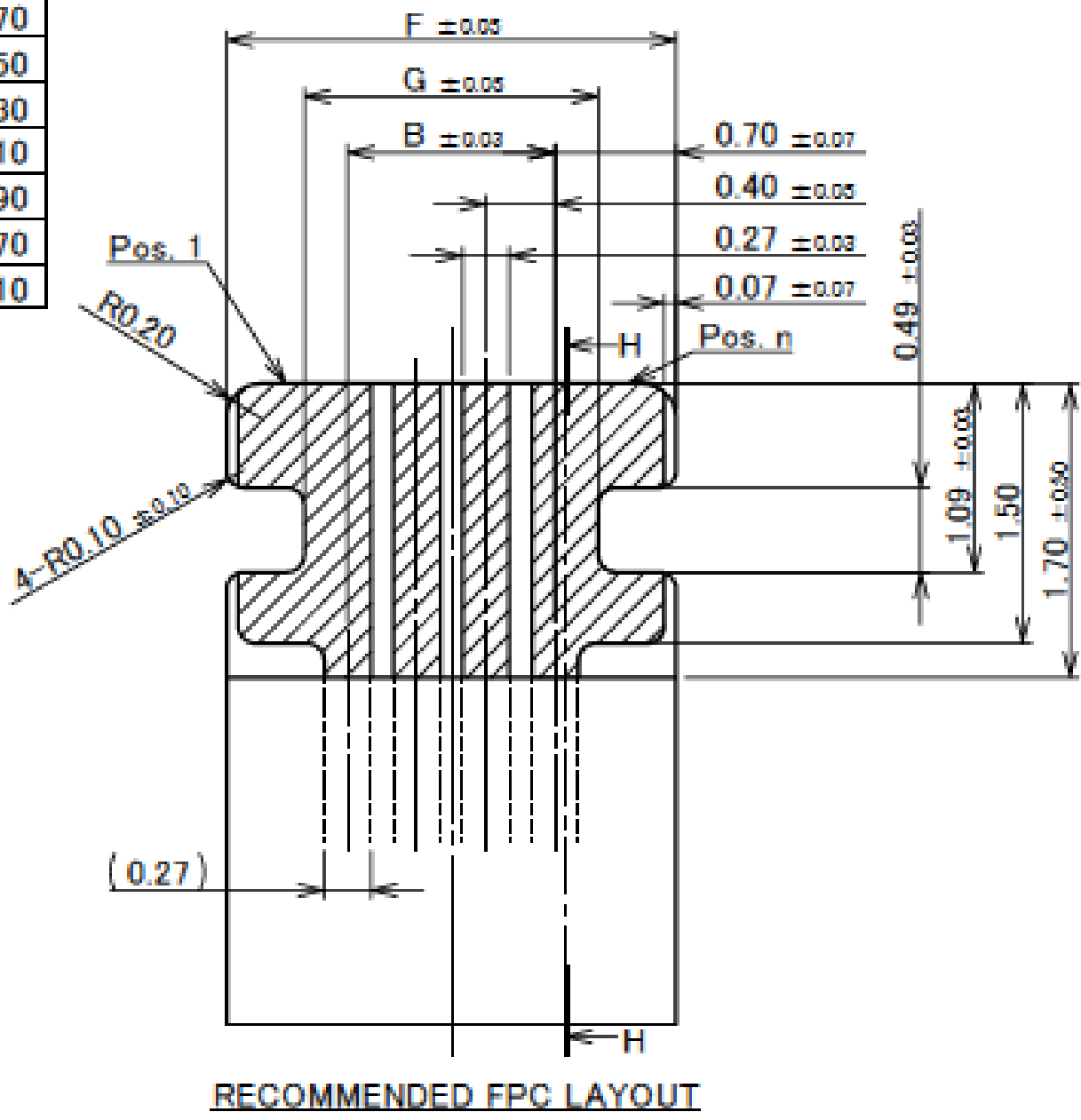


NOTES
1.CONTACT POINT : ONLY UPPER CONTACT

Rev.8

Connector Assembly

Pos.	B	C	F	G
4P	1.20	2.10	2.60	1.70
6P	2.00	2.90	3.40	2.50
8P	2.80	3.70	4.20	3.30
10P	3.60	4.50	5.00	4.10
12P	4.40	5.30	5.80	4.90
14P	5.20	6.10	6.60	5.70
15P	5.60	6.50	7.00	6.10

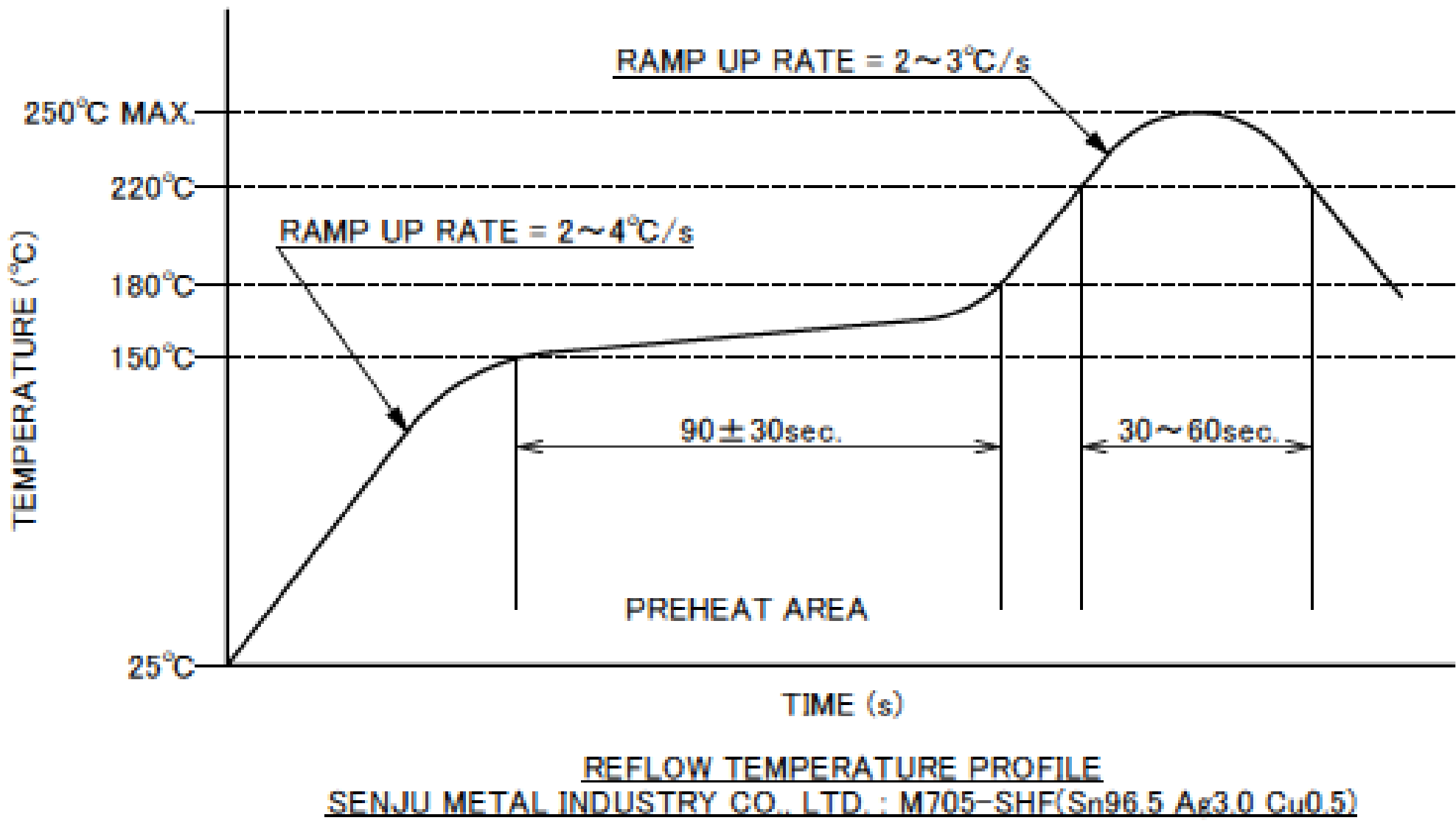
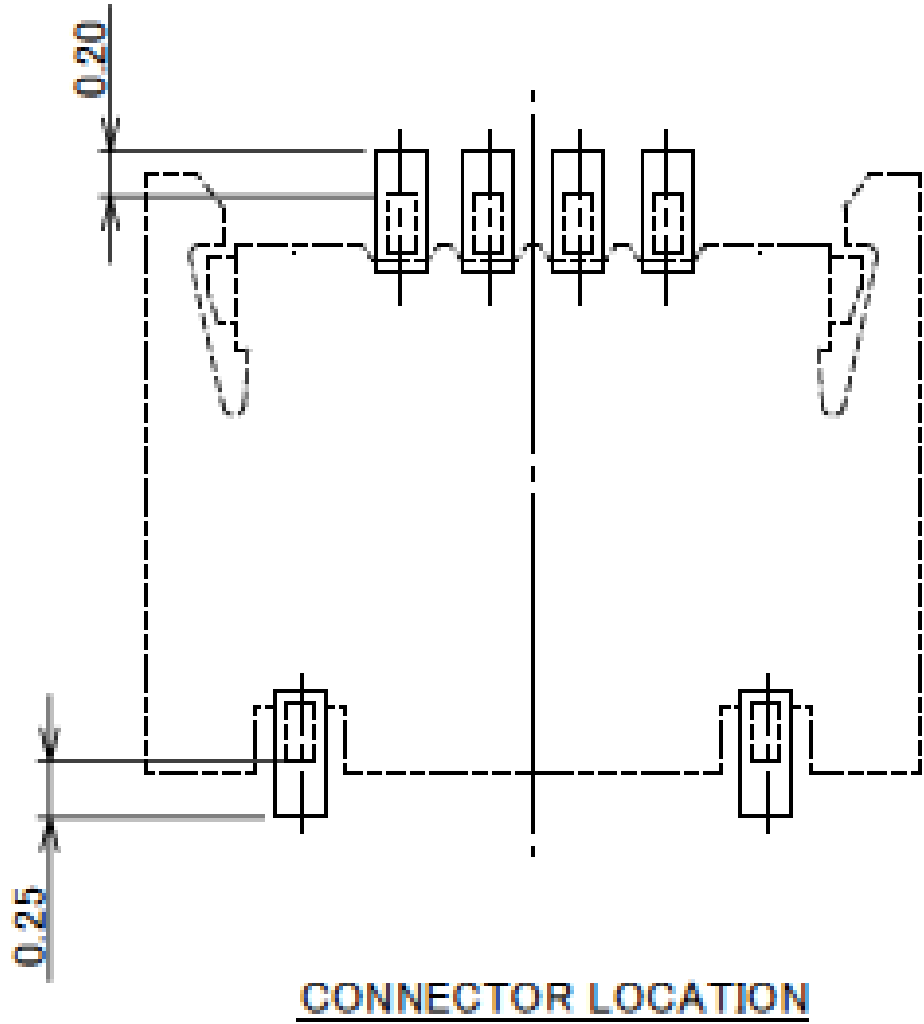


NOTES.

2. PLEASE DO NOT CONNECT THESE TWO SOLDER PADS TO THE ELECTRICAL CIRCUIT. (SIGNAL OR GROUND)

3. ADHESIVE SHOULD USE THERMOSETTING.

8	COVER FILM	PI	
7	CONDUCTOR	COPPER	Au OVER Ni UNDER PLATING
6	BASE FILM	PI	
5	STIFFENER	PI	
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS



Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.4A DC (PER CONTACT)/ 6.0A DC (PER CONNECTOR)
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	20~80% (NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : \triangle 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V
DURABILITY	20 CYCLES
ACT CLOSING FORCE (INITIAL / AFTER TEST)	4P : 1.8N MAX. / 6P : 2.4N MAX. / 8P : 3.0N MAX. 10P : 3.6N MAX. / 12P : 4.2N MAX.
ACT RELEASING FORCE (INITIAL / AFTER TEST)	4P : 0.06N MIN. / 6P : 0.08N MIN. / 8P : 0.10N MIN. 10P : 0.12N MIN. / 12P : 0.14N MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	4P : 2.50N MIN. / 6P : 2.62N MIN. / 8P : 2.74N MIN. 10P : 2.86N MIN. / 12P : 2.98N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1863
TEST REPORT	TR-13088
PACKING STANDARD	PST-13049
INSTRUCTION MANUAL	HIM-14024
APPEARANCE CRITERIA No.	QLS-A***

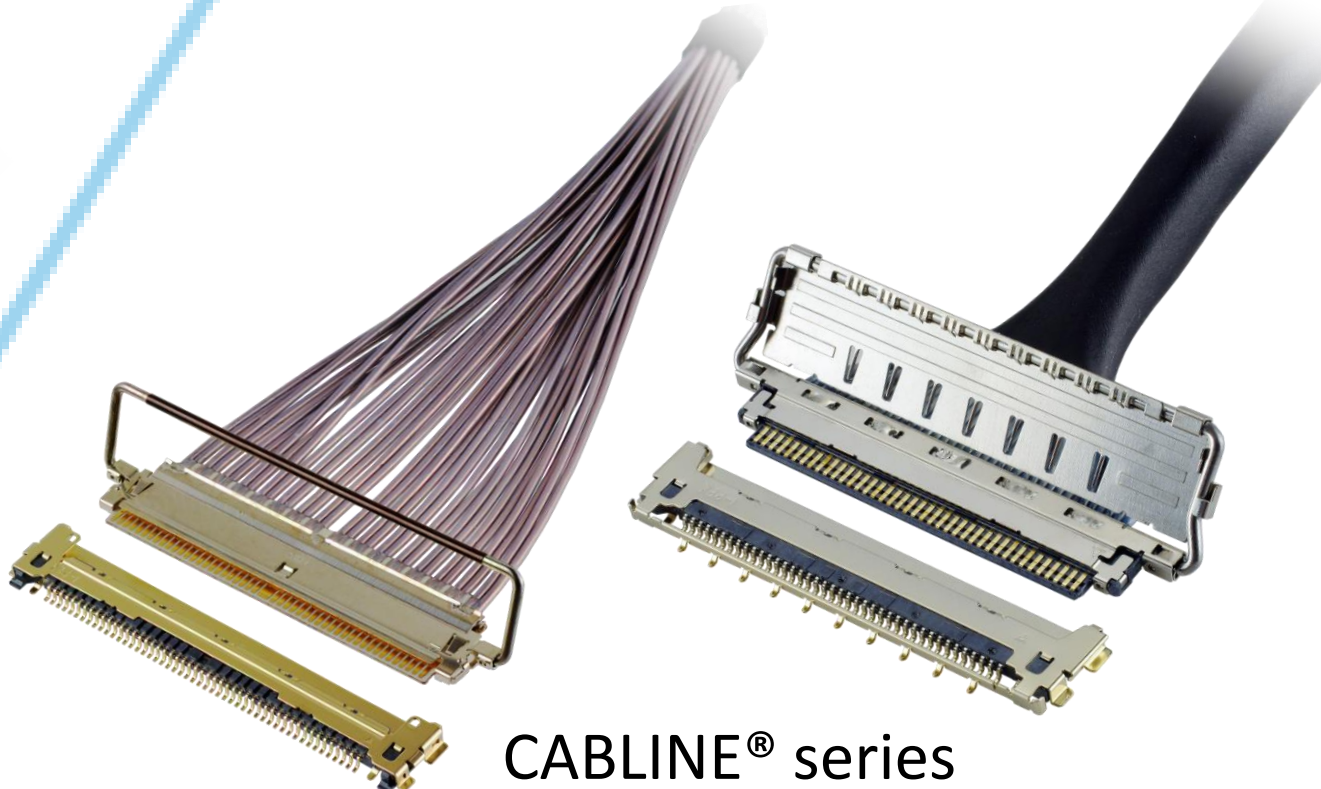
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



Micro-coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



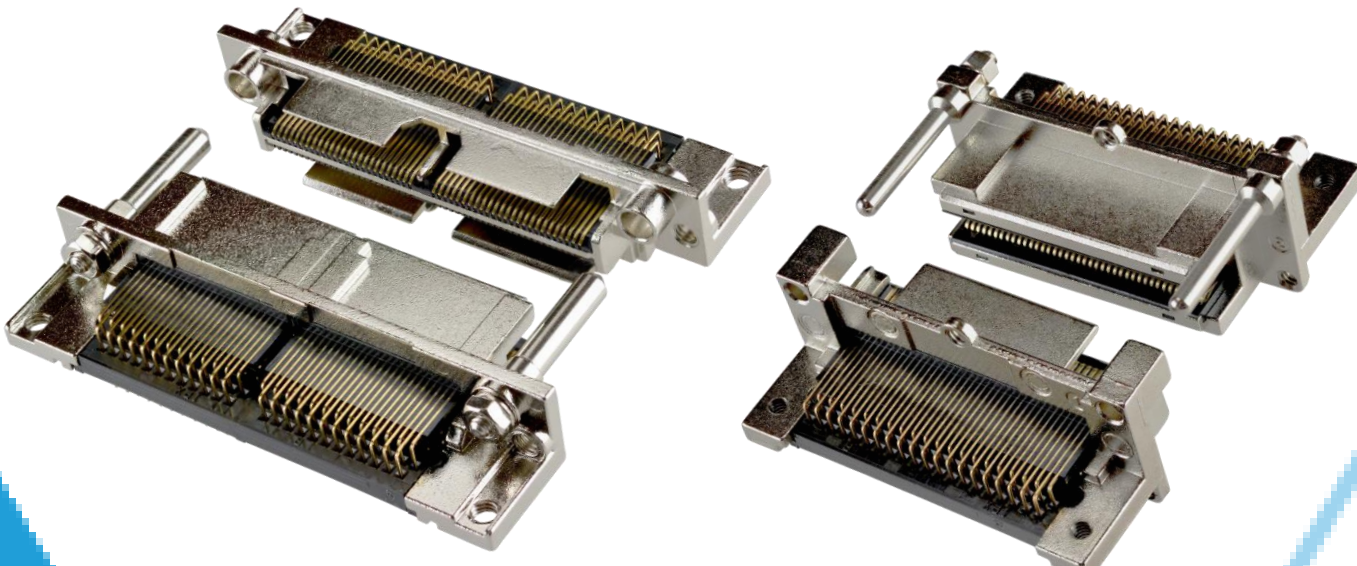
NOVASTACK® series



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 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