

MINIFLEX® 4-ST

超低背（高さ = 0.5 mm）、0.4 mmピッチ、水平嵌合、バックフリップ

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

*記載のない極数の対応状況についてはお問い合わせください。

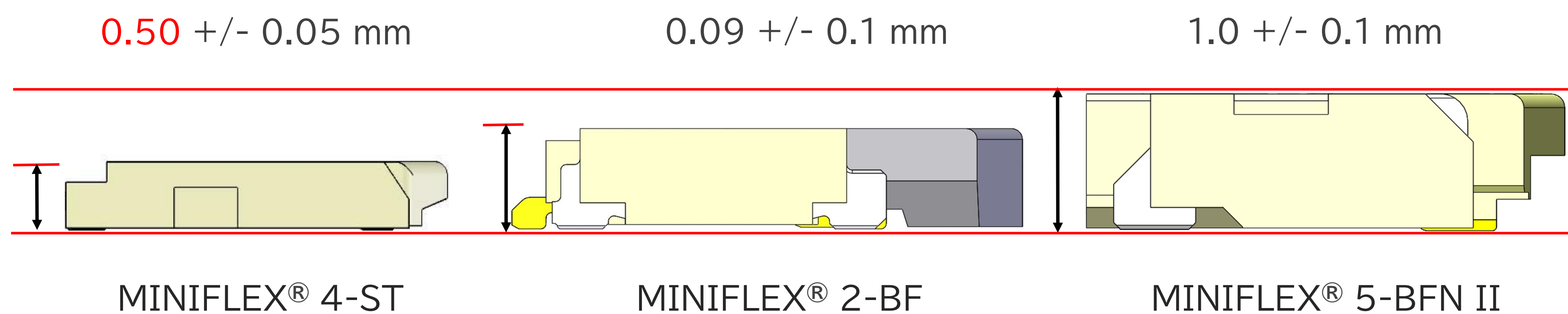
Applicable FPC/FFC:

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

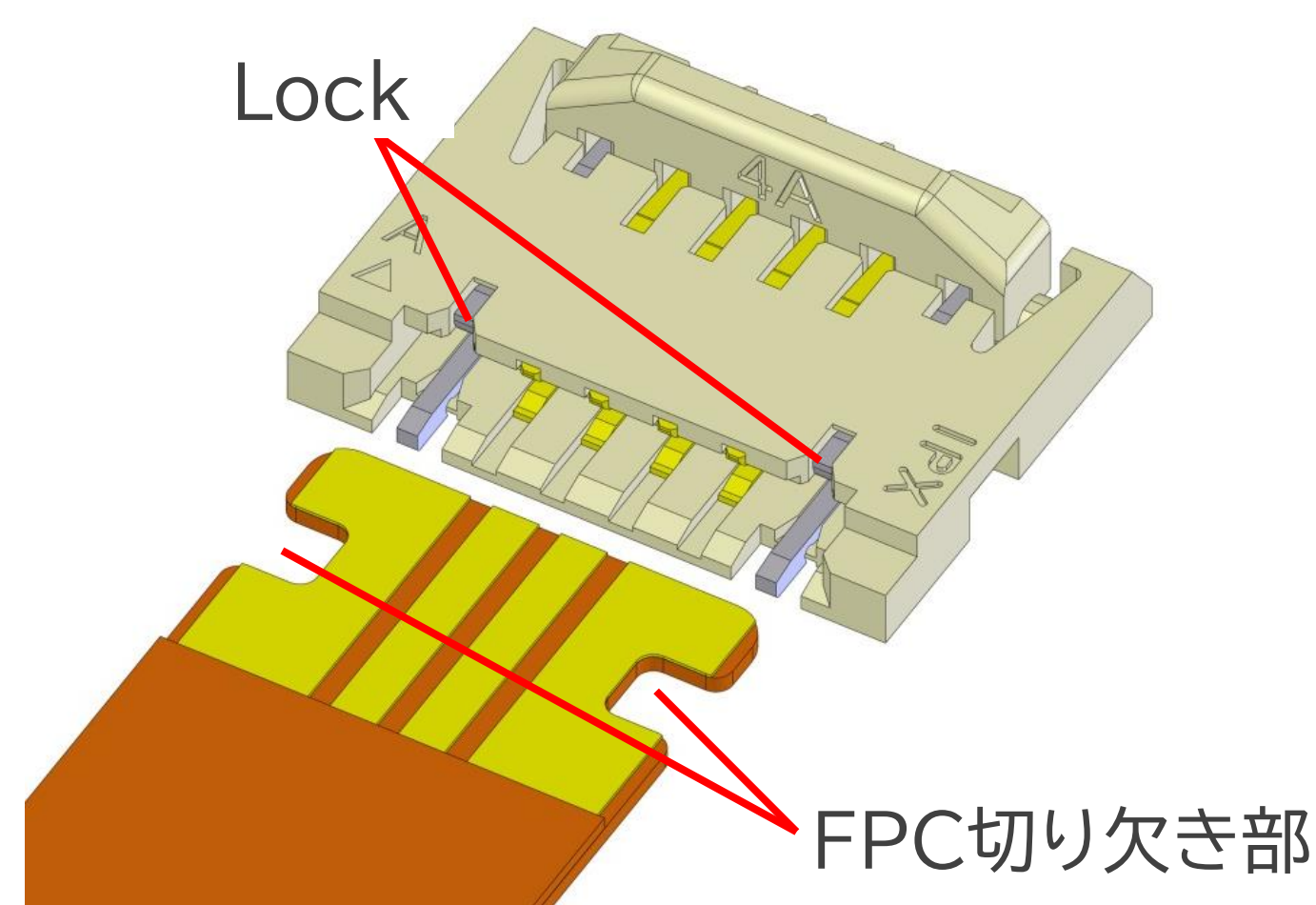


▶ 超低背0.5 mm

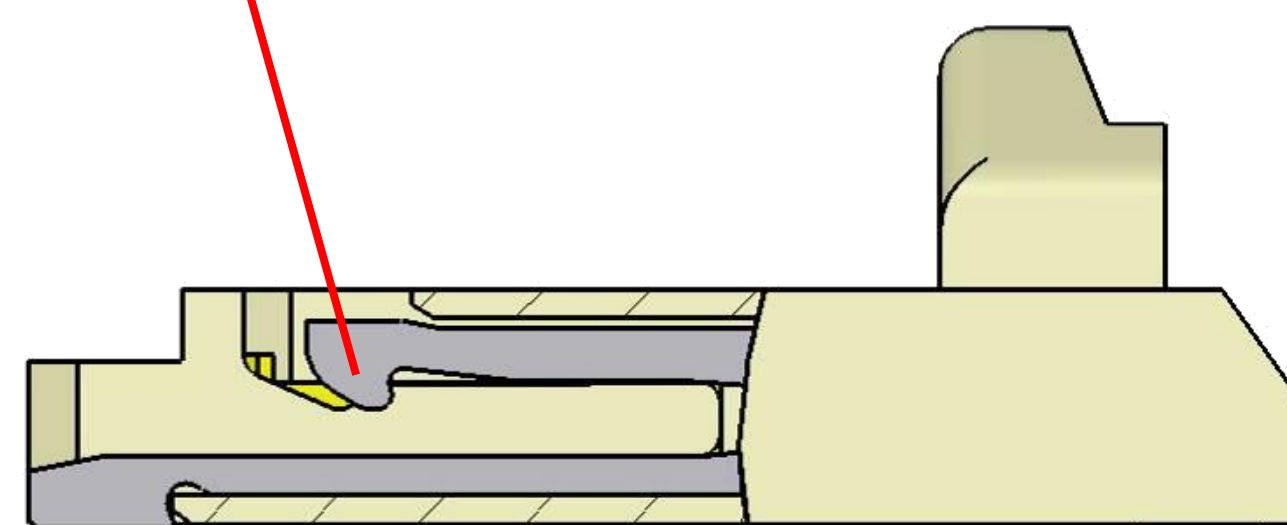
MINIFLEX シリーズラインアップ中、最低背コネクタ



▶ メカニカルロックによる高FPC保持力



FPCロックメカニズムによる
高FPC保持力

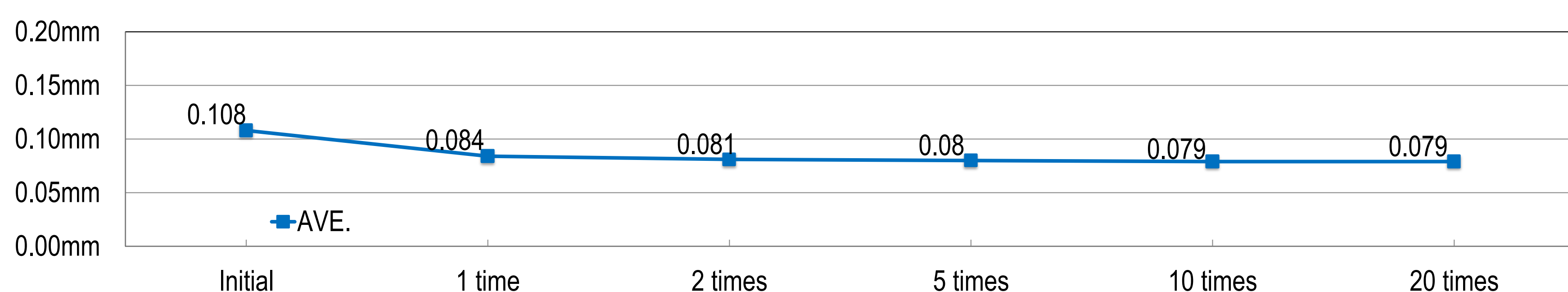


FPC 保持力 (6 p)
5.121 N

▶ FPC未挿入状態でのアクチュエータ空閉じ操作

SMTプロセス後に、もしもFPC未挿入状態でアクチュエータを操作してしまった場合でも十分にコネクタとして機能します

■ FPC未挿入状態でのアクチュエータ空閉じ操作前後のコンタクト接点間寸法（表図 MINIFLEX® 4-ST 10 pins）



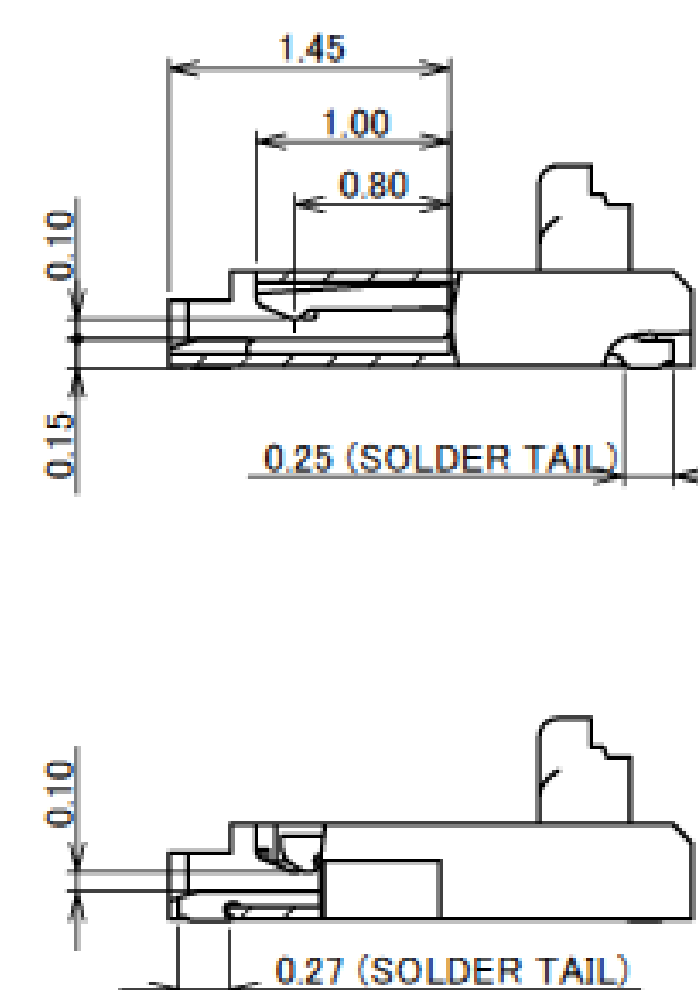
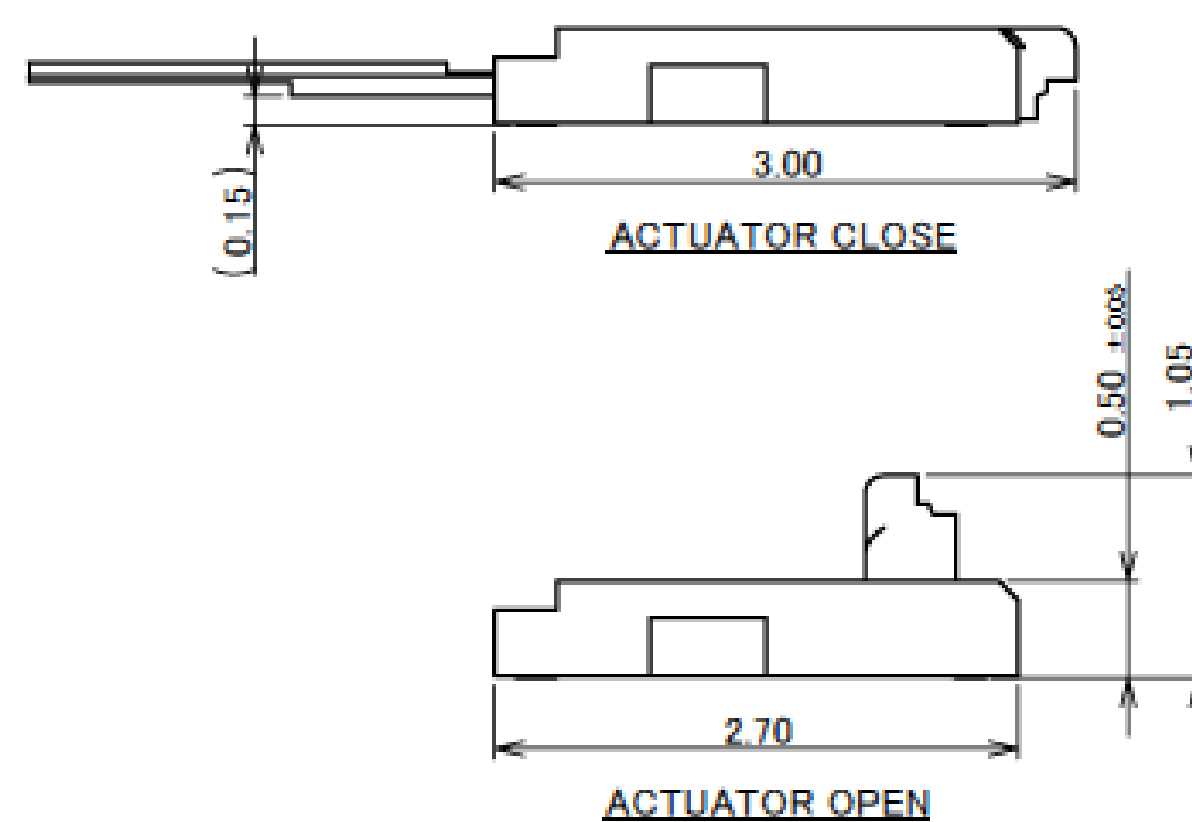
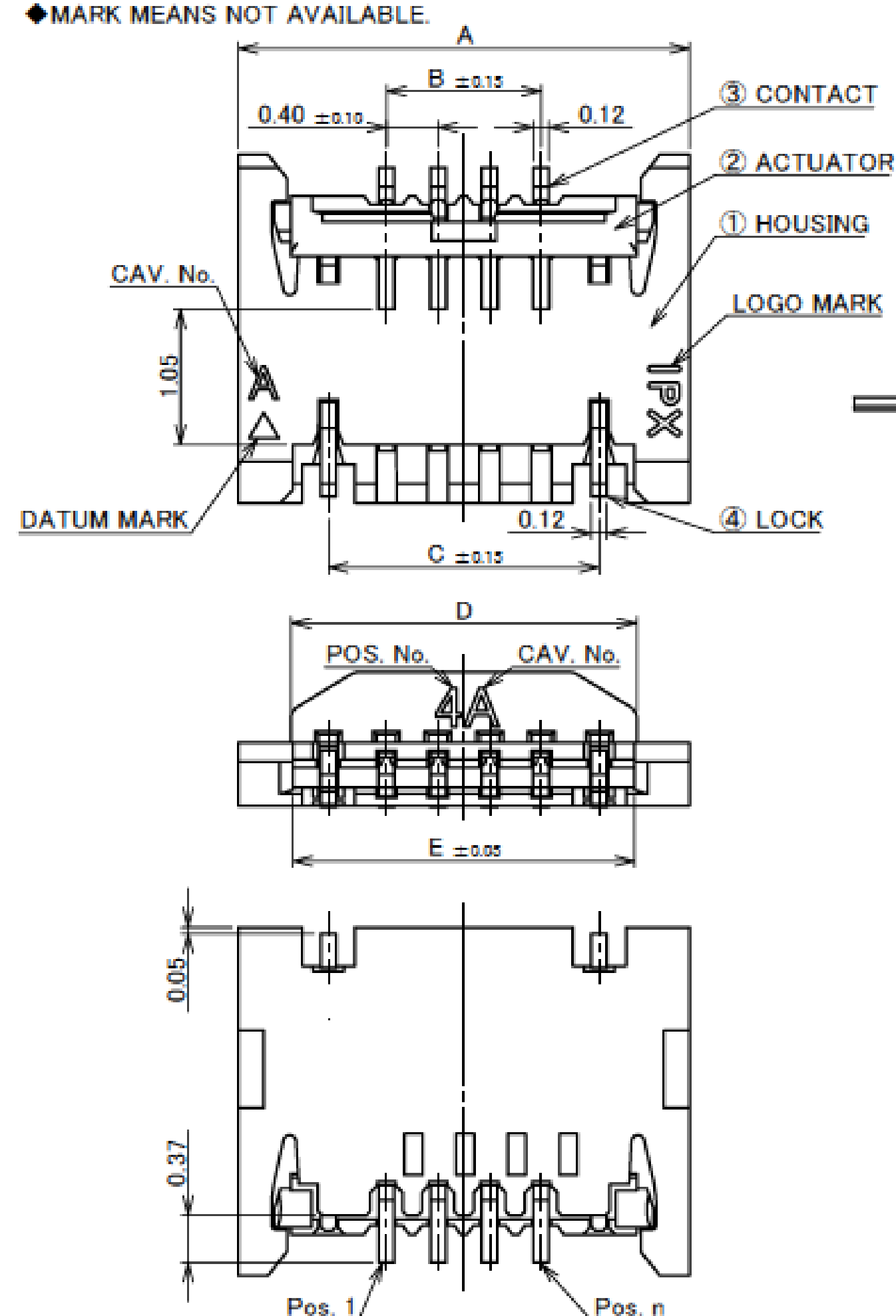
- FPC挿入力は上昇します
- FPC保持力に大きな変化はありません

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.



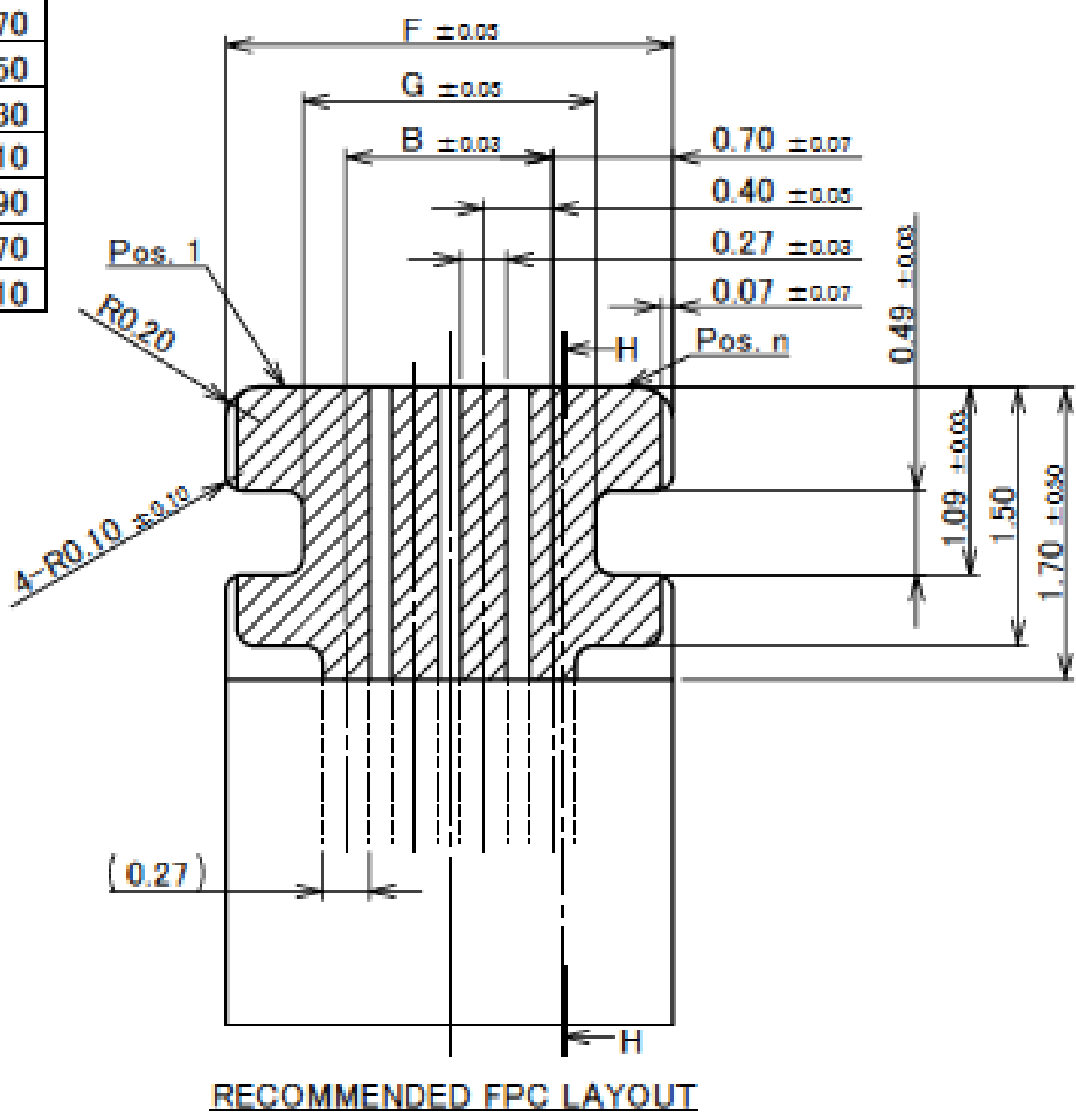
4	LOCK	PHOSPHOR BRONZE	SOLDER AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN. OTHER : Ni 1.00 μ m MIN.
3	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDER AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO	DESCRIPTION	MATERIAL	FINISH . REMARKS

NOTES
1.CONTACT POINT : ONLY UPPER CONTACT

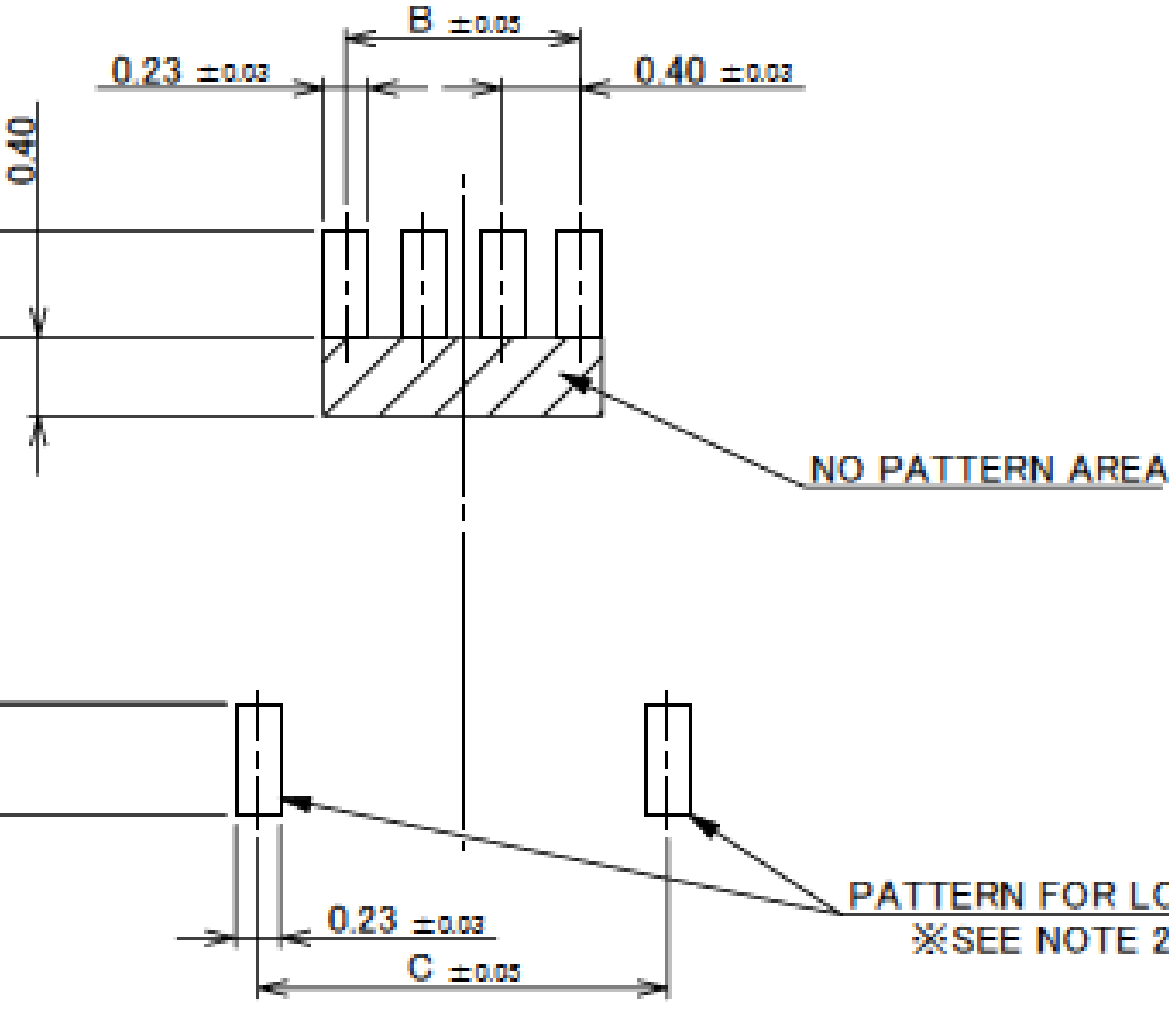
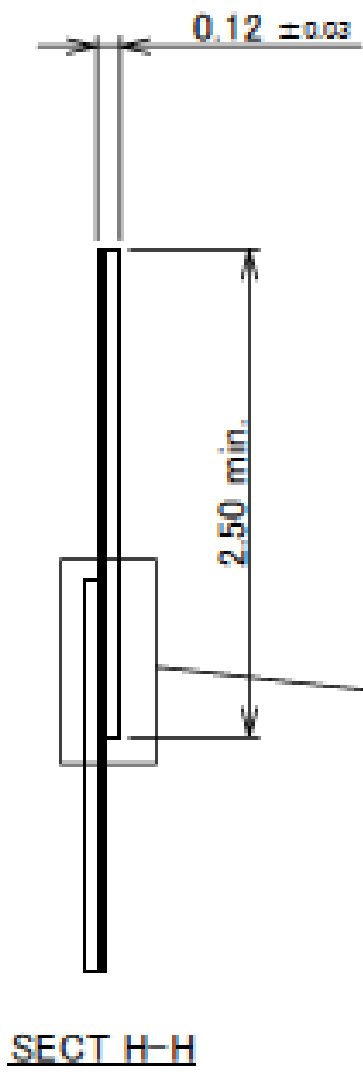
Rev.8

Connector Assembly

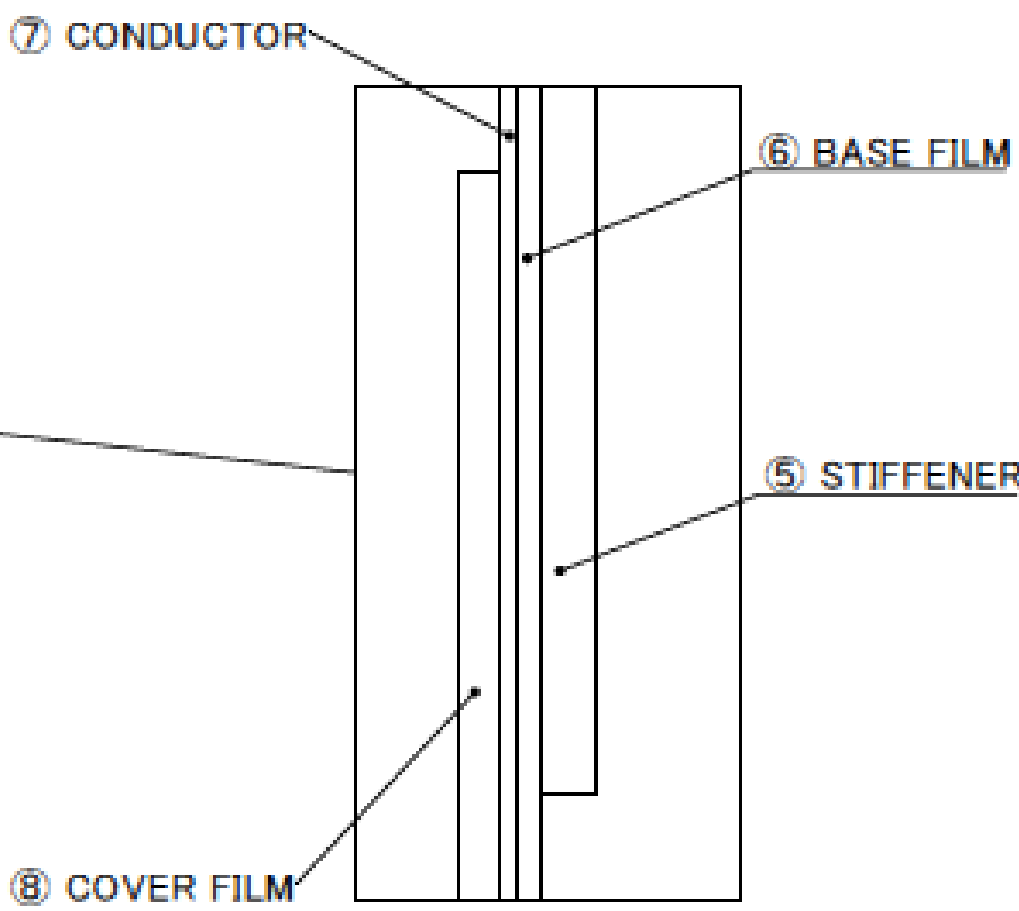
Pos.	B	C	F	G
4P	1.20	2.10	2.60	1.70
6P	2.00	2.90	3.40	2.50
8P	2.80	3.70	4.20	3.30
10P	3.60	4.50	5.00	4.10
12P	4.40	5.30	5.80	4.90
14P	5.20	6.10	6.60	5.70
15P	5.60	6.50	7.00	6.10



RECOMMENDED FPC LAYOUT

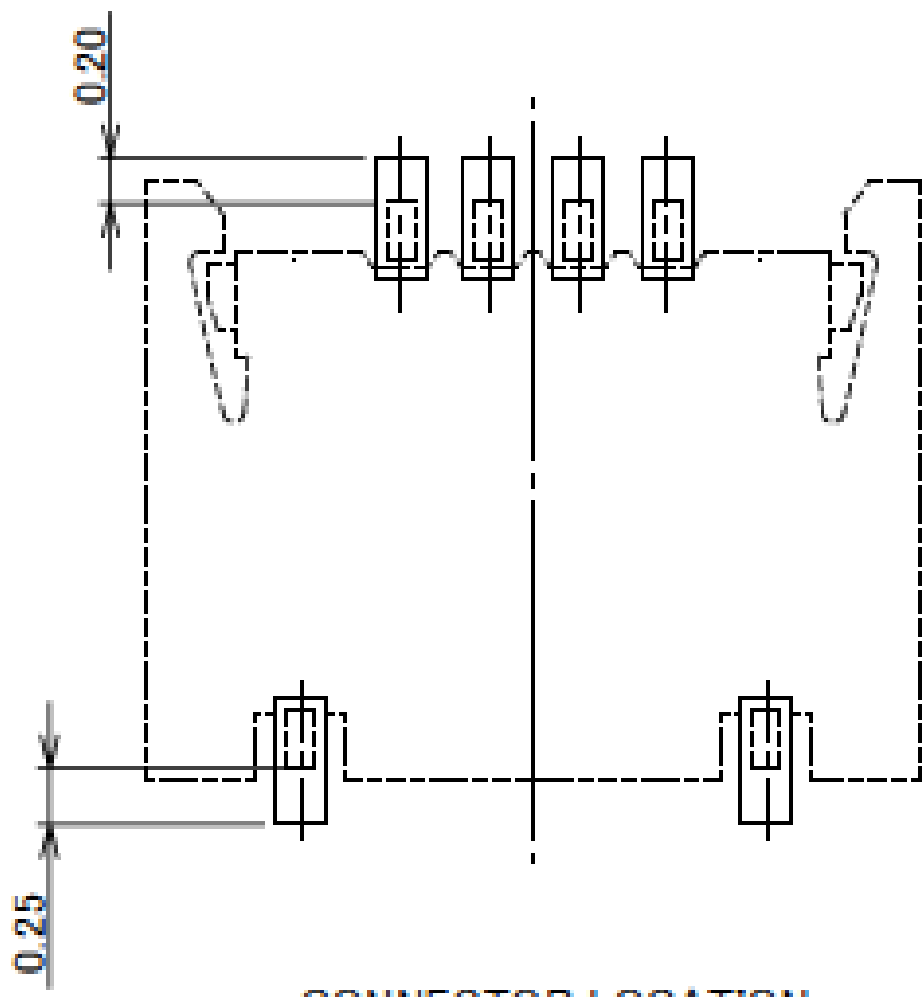


RECOMMENDED PCB AND METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

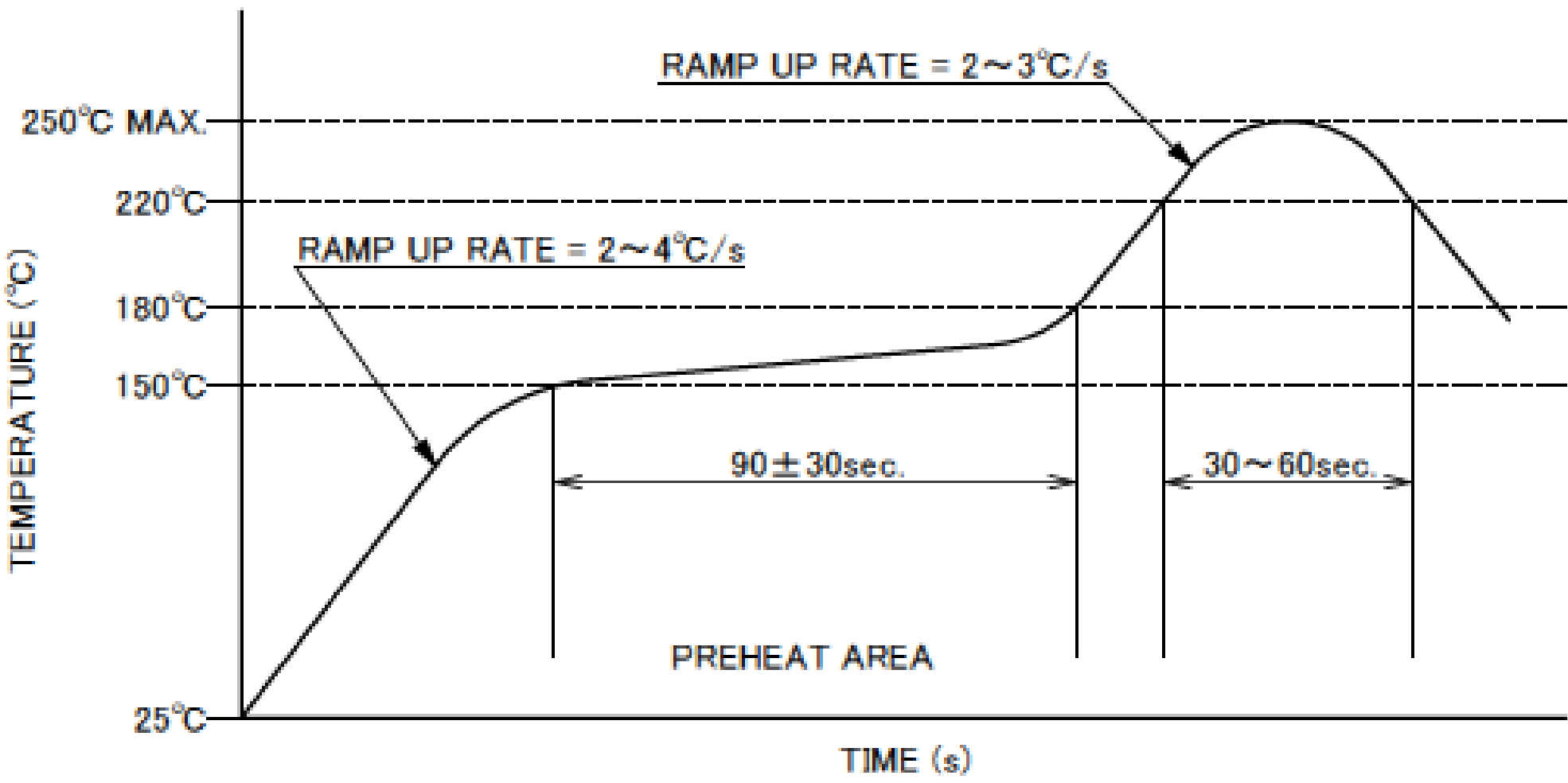


- NOTES.
- 2. PLEASE DO NOT CONNECT THESE TWO SOLDER PADS TO THE ELECTRICAL CIRCUIT. (SIGNAL OR GROUND)
 - 3. ADHESIVE SHOULD USE THERMOSETTING.

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 LOCATION



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 (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

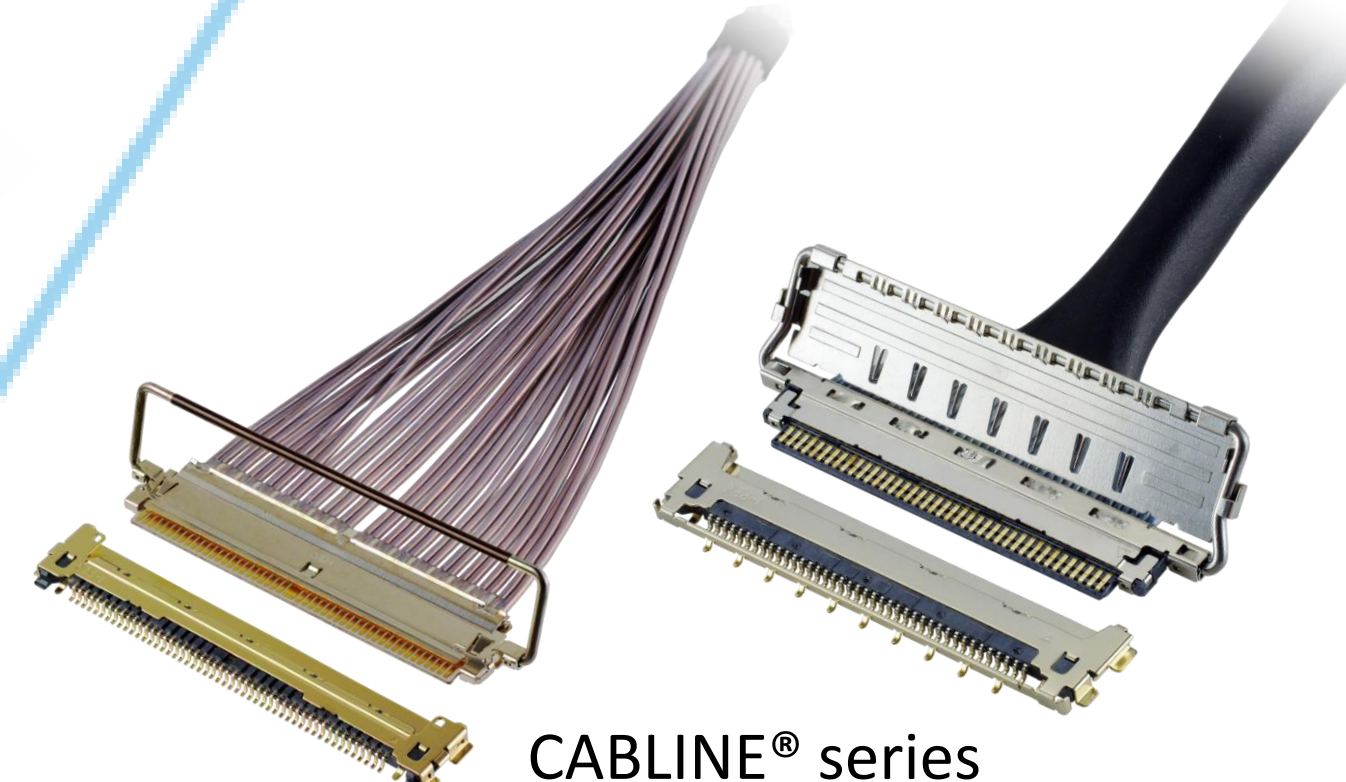
MHF® series



CABLIN® series



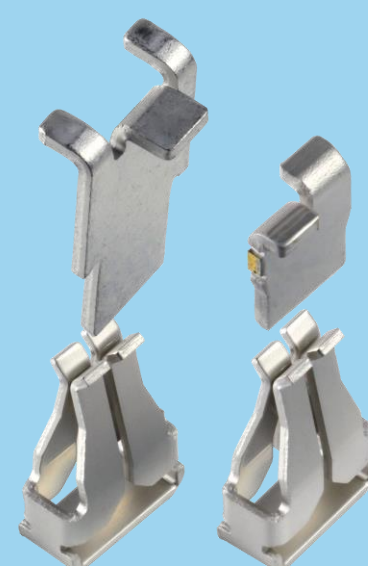
Micro-coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series

ISH® series



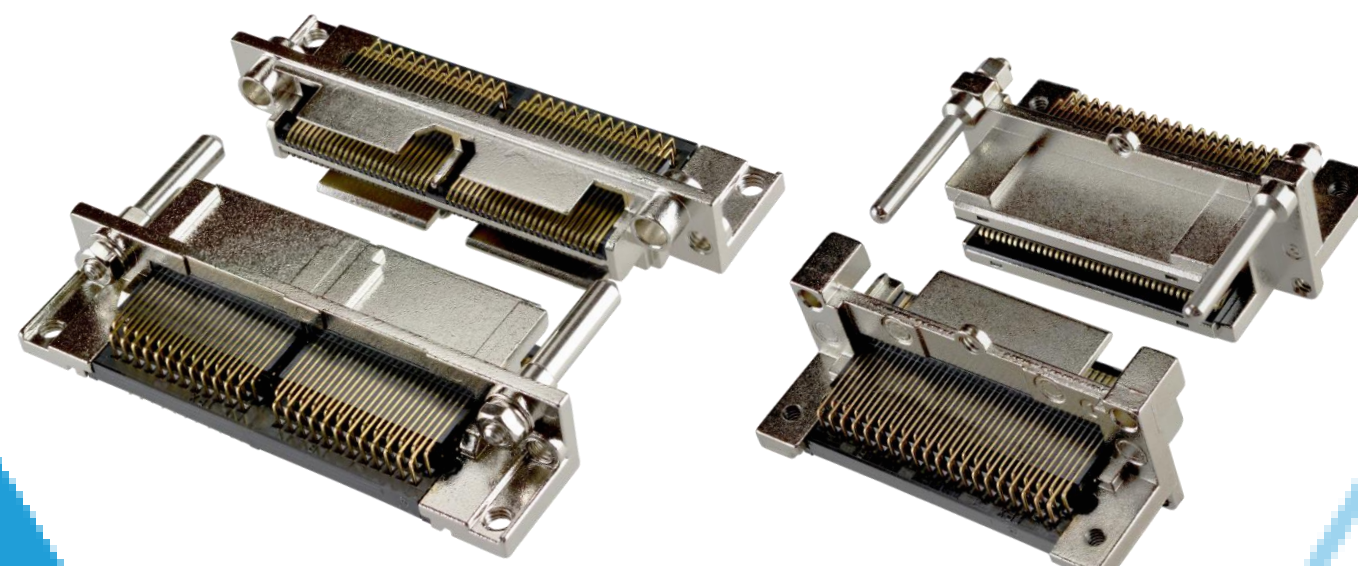
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



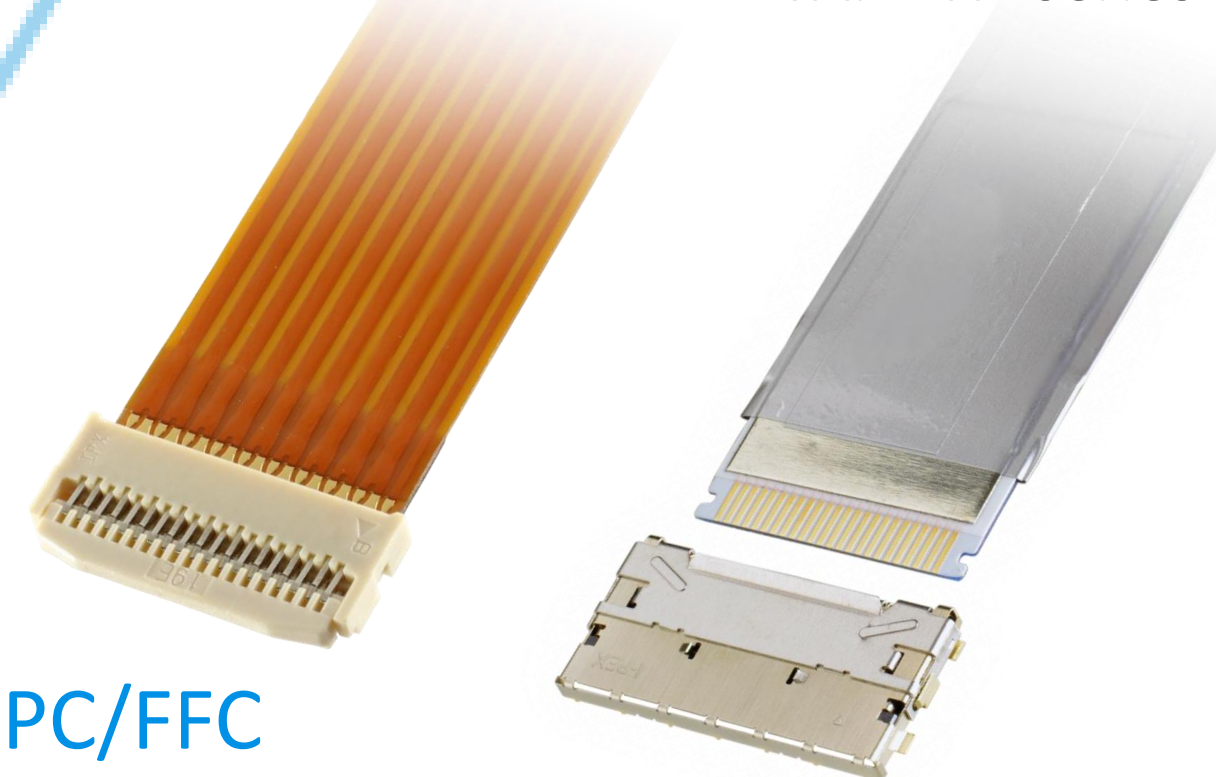
MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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