FPC/FFC Connector

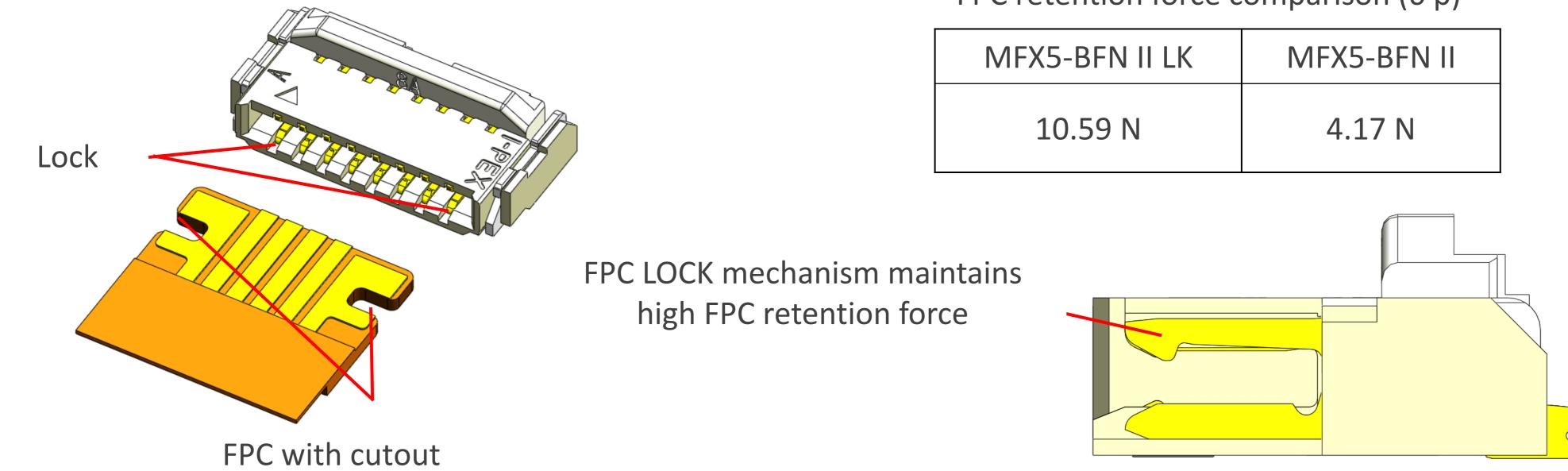
MINIFLEX[®] 5-BFN II LK

Mechanical lock, robust design with hold-down feature, high temperature resistance (125°C), low profile (height = 1.0 mm), 0.5 mm pitch, horizontal, backflip

	Product Spe	cifications:		Applicable FPC/FFC:			
	Board Pitch (mm)		0.5	FPC/FFC Contact Pitch			
	Miningla	arth (mm)	Contact A:	FPC/FFC Contact Point	ŀ		
	Wiping Length (mm)		Contact B:	FPC/FFC Thickness (mm)			
		Height	1.0 +/- 0.1				
		Width	Formula: 2.7+(0.5*?p)				
	Size (mm)	Depth	Open: 3.0				
			Close: 3.5				
	Pin counts	Range	4-28 (even)				
		Available	4,6,8,10,12,14,16,18,20,24				

* Please inquire for pin counts not listed or outside of the pin count range.

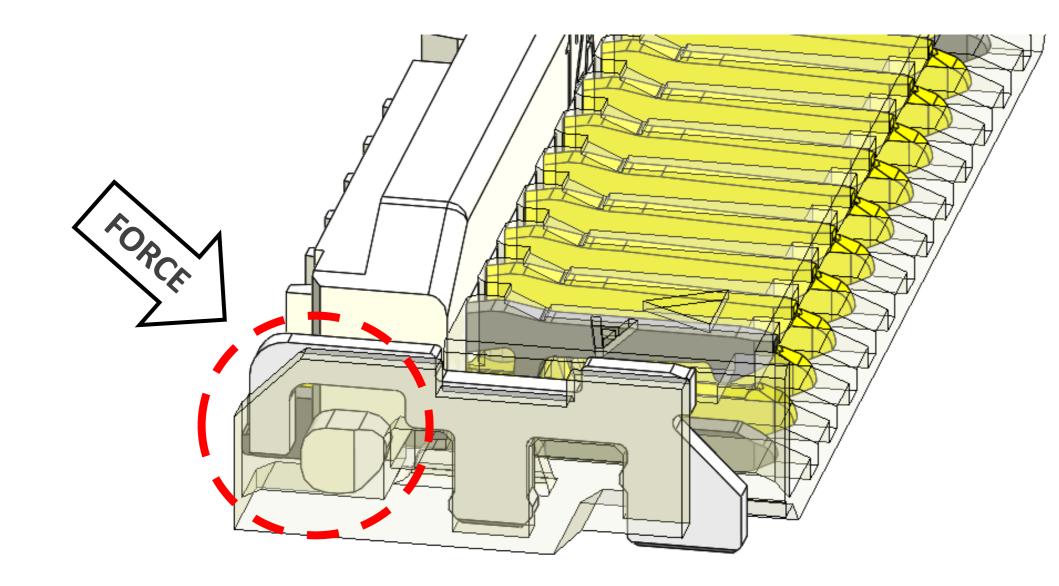
High FPC retention force with additional mechanical lock



FPC retention force comparison (6 p)

MFX5-BFN II LK	MFX5-BFN II

Unique actuator holder design prevents actuator drop-off



Actuator will not fall-off even at 100 N force

*Housing destruction occurs first *Force applied from 30 degrees backwards

0.5

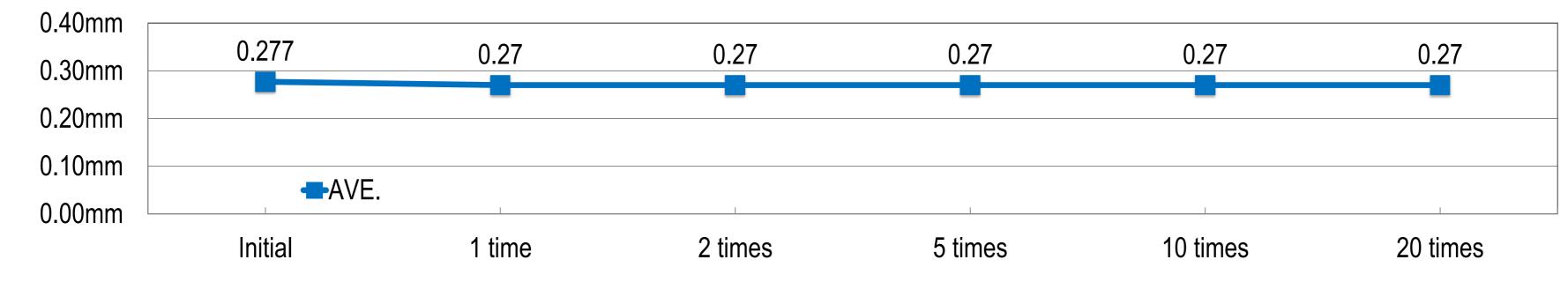
Top and Bottom

0.3 +/- 0.05

Usability for closing actuator without FPC

The connector will still function even if the actuator is accidentally closed without the FPC being inserted after the SMT process

Connector will still function reliably (contact gap graph 22 pins before and after operating actuator without FPC inserted)



Insertion force of connector goes up

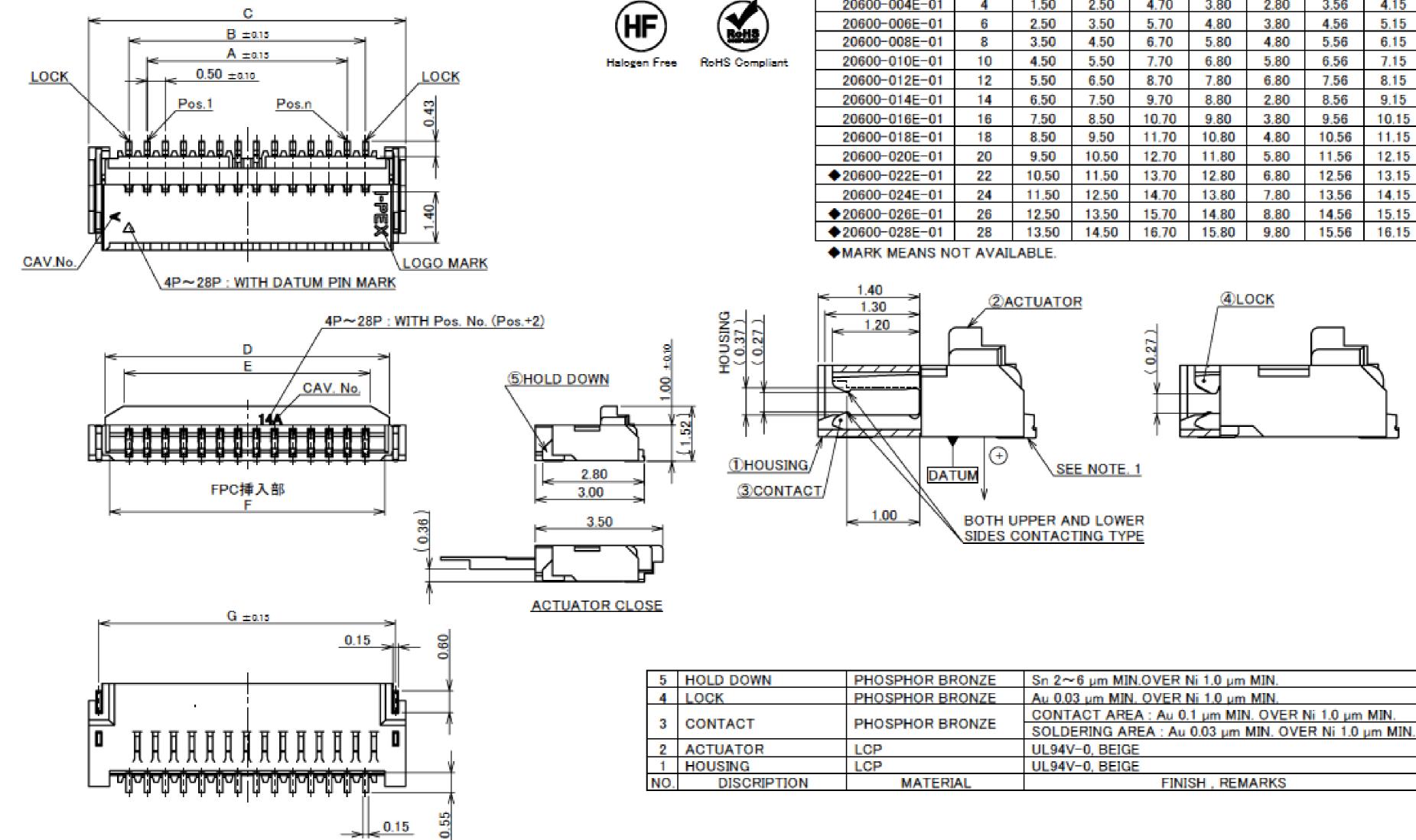
Retention force of connector does not change significantly

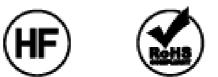
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Component Parts Details

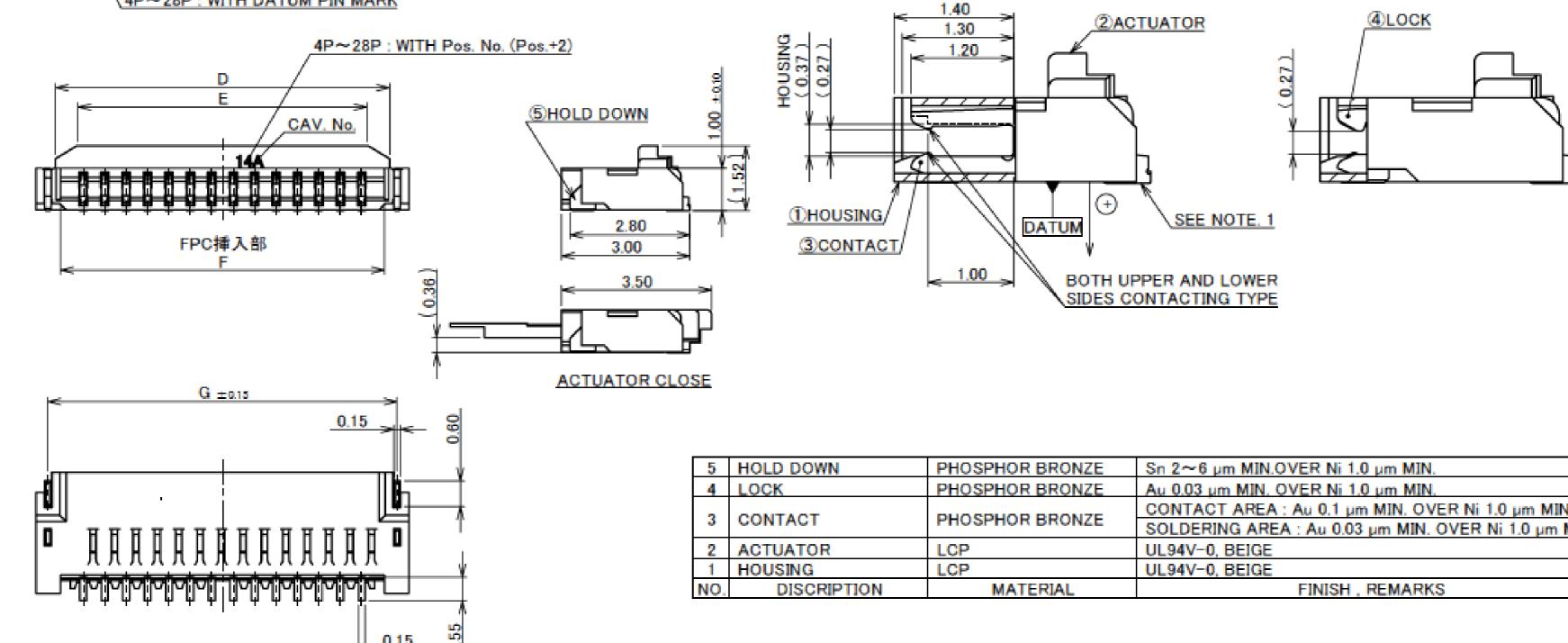
Connector Assembly

Recommended P/N 20600-0**E-01





PART No.	POS.	Α	В	С	D	E	F	G
20600-004E-01	4	1,50	2.50	4.70	3,80	2.80	3.56	4.15
20600-006E-01	6	2.50	3,50	5.70	4.80	3.80	4.56	5.15
20600-008E-01	8	3.50	4.50	6.70	5.80	4.80	5.56	6.15
20600-010E-01	10	4.50	5.50	7.70	6.80	5.80	6.56	7.15
20600-012E-01	12	5.50	6.50	8.70	7.80	6.80	7.56	8.15
20600-014E-01	14	6.50	7.50	9.70	8.80	2.80	8.56	9.15
20600-016E-01	16	7.50	8.50	10.70	9.80	3.80	9.56	10.15
20600-018E-01	18	8.50	9.50	11.70	10.80	4.80	10.56	11.15
20600-020E-01	20	9.50	10.50	12.70	11.80	5.80	11.56	12.15
◆20600-022E-01	22	10.50	11.50	13.70	12.80	6.80	12.56	13,15
20600-024E-01	24	11.50	12.50	14.70	13.80	7.80	13.56	14.15
◆20600-026E-01	26	12.50	13.50	15.70	14.80	8.80	14.56	15,15
◆20600-028E-01	28	13.50	14.50	16.70	15.80	9.80	15.56	16.15



CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-12019 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

NOTES

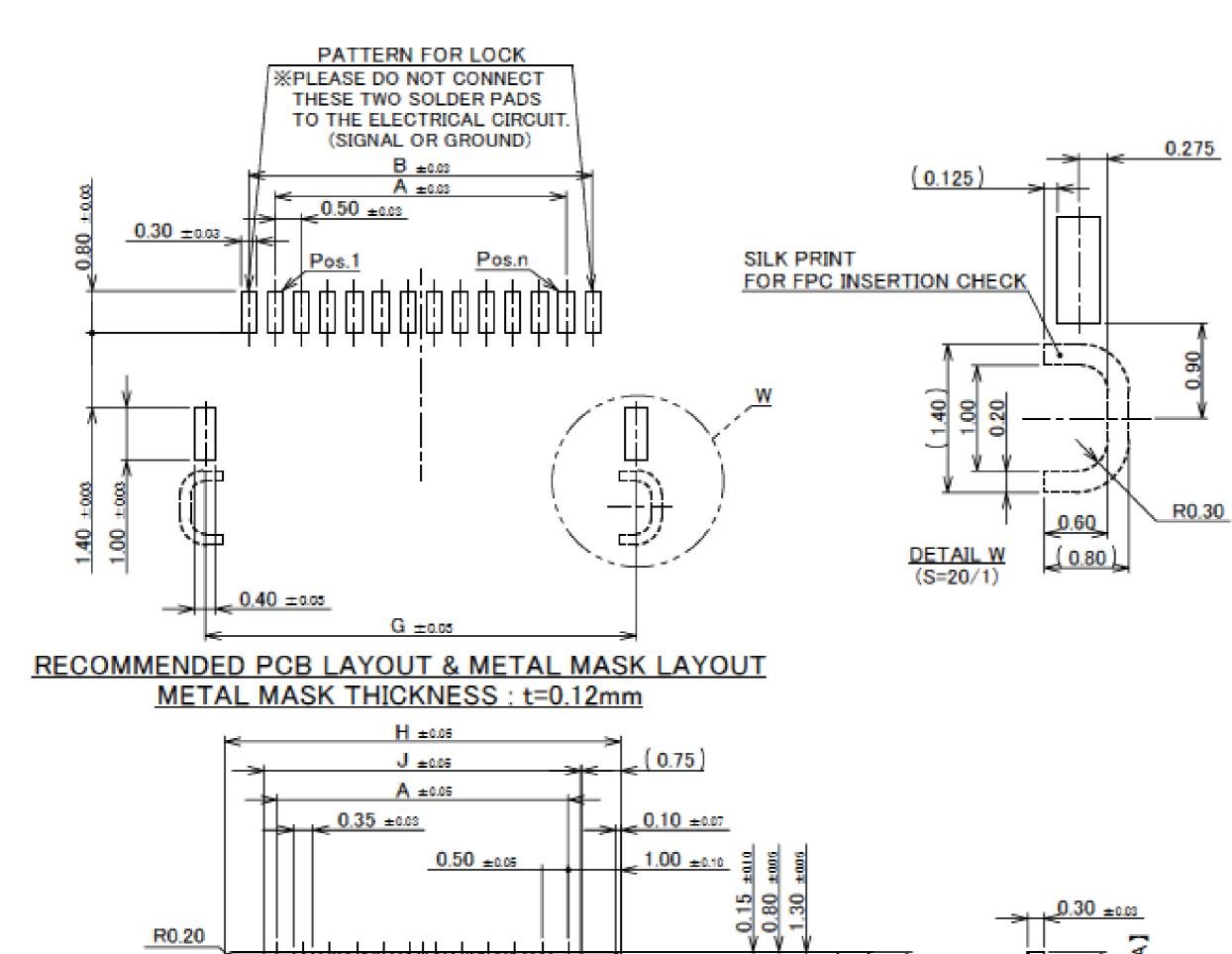
CONTACT TAIL IS PROJECTION FROM HOUSING IN THE + DIRECTION. (0~0.06)

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Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Connector Assembly



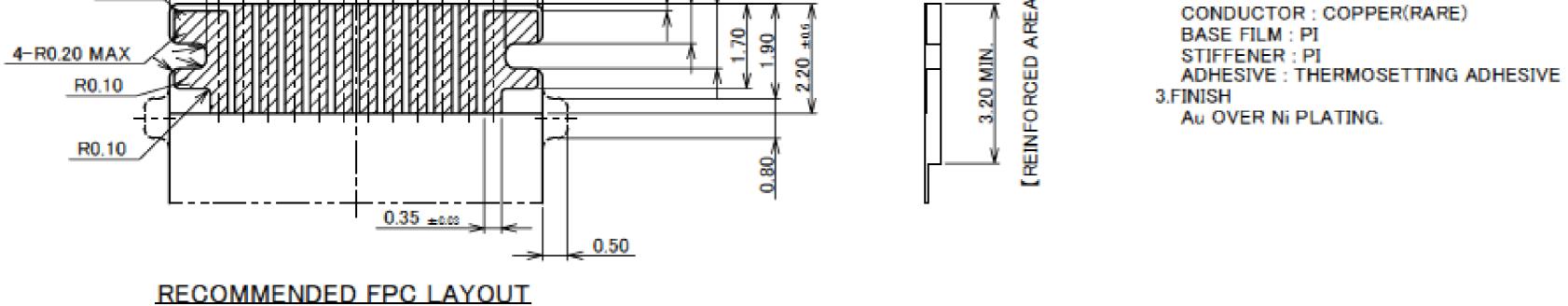
PART No.	POS.	Α	В	G	H	J
20600-004E-01	4	1.50	2.50	4.15	3.50	2.00
20600-006E-01	6	2.50	3.50	5.15	4.50	3.00
20600-008E-01	8	3.50	4.50	6.15	5.50	4.00
20600-010E-01	10	4.50	5.50	7.15	6.50	5.00
20600-012E-01	12	5.50	6.50	8.15	7.50	6.00
20600-014E-01	14	6.50	7.50	9,15	8.50	7.00
20600-016E-01	16	7.50	8.50	10,15	9.50	8.00
20600-018E-01	18	8.50	9.50	11.15	10.50	9.00
20600-020E-01	20	9.50	10.50	12.15	11.50	10.00
20600-022E-01	22	10.50	11.50	13,15	12.50	11.00
20600-024E-01	24	11.50	12.50	14,15	13.50	12.00
◆20600-026E-01	26	12.50	13.50	15,15	14.50	13.00
20600-028E-01	28	13.50	14.50	16.15	15.50	14.00
A MADY MEANS NOT AVAILABLE						

MARK MEANS NOT AVAILABLE.

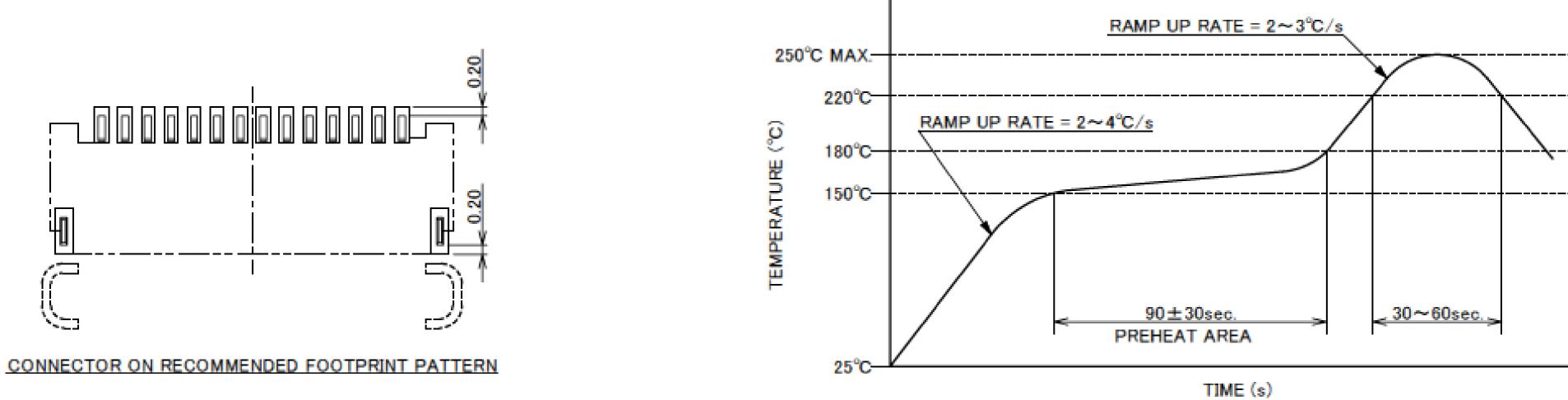
NOTES

2.MATERIAL

COVER FILM : PI







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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 PIN)
RATING AMPERAGE	0.5A DC (PER CONTACT PIN) 7.0A DC (PER CONNECTOR)
OPERATING TEMPERATURE	233~398K(-40°C~125°C)
OPERATING HUMIDITY	80% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 40mohm MAX. / AFTER TEST : 20mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : $0.6N(61gf) \times (n + 2) MAX$.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL/ 20TH CYCLES : $0.05N(5gf) \times (n + 2)$ MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : 0.15N(15gf) × n + 2.0N MIN. / AFTER TEST : 0.15N(15gf) × n + 1.0N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-1841
TEST REPORT	TR-14132
PACKING STANDARD	PST-13031
INSTRUCTION MANUAL	HIM-12019
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

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