### **FPC/FFC Connector**

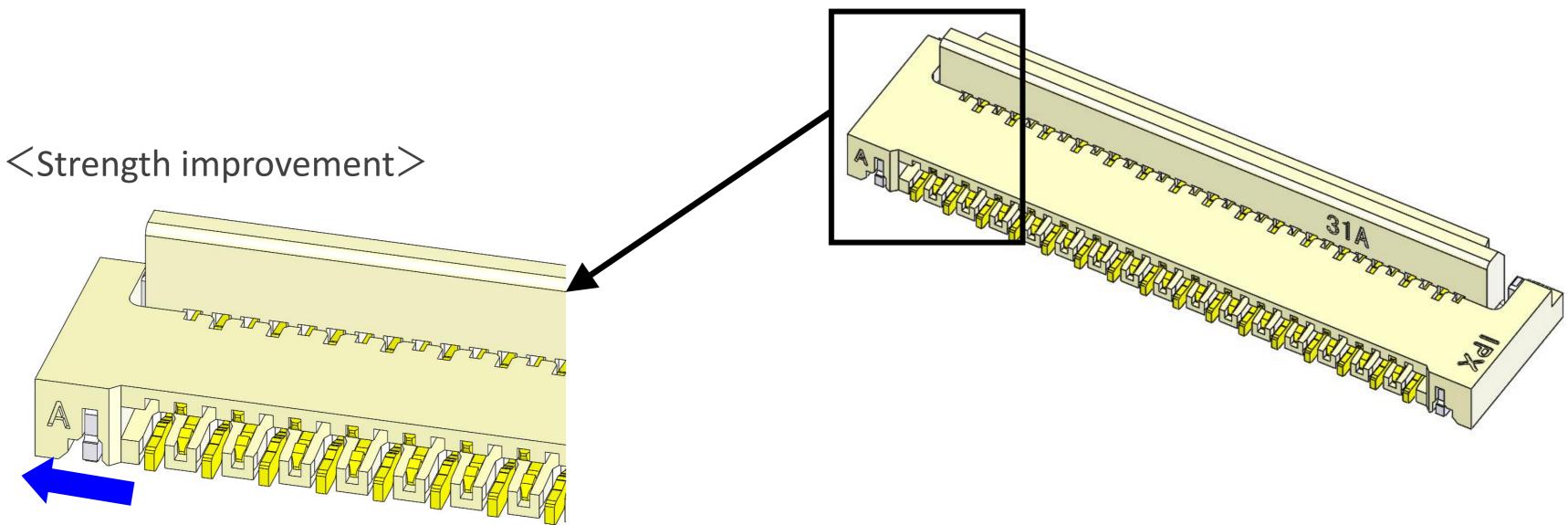
# MINIFLEX<sup>®</sup> 3-BFNH L-HD

0.3 mm pitch, Horizontal mating, Backflip, Hold down type, with long actuator, (Height =0.9 mm)

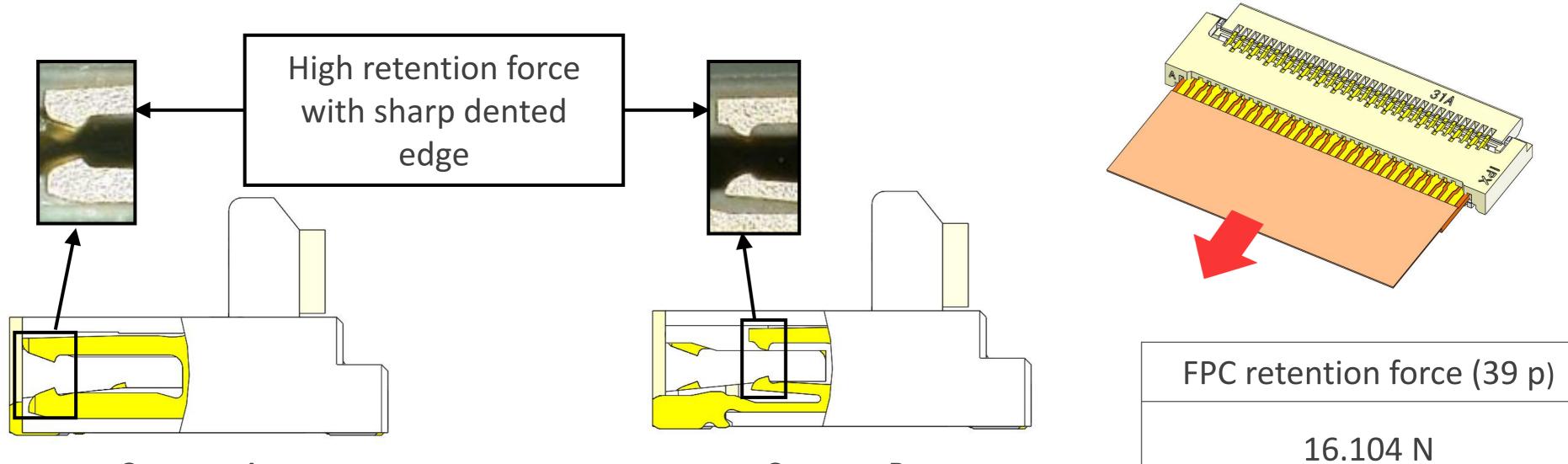
Product Specifications:				Applicable FPC/FFC:		
	Board Pitch (mm)		0.3	FPC/FFC Contact Pitch	0.3	
	Wiping Length (mm)		Contact A: 0.90	FPC/FFC Contact Point	Top and Bottom	
			Contact B: 0.45	FPC/FFC Thickness (mm)	0.2 +/- 0.03	
		Height	0.90 +/- 0.10			
	Size (mm)	Width	Formula: 1.5 + (0.3*?p)			
		Depth	Open: 2.55			
			Close: 3.50			
	Pin counts	Range	7-71 (odd)			
		Available	39,61			
-						

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

### Hold down to improve strength of side wall



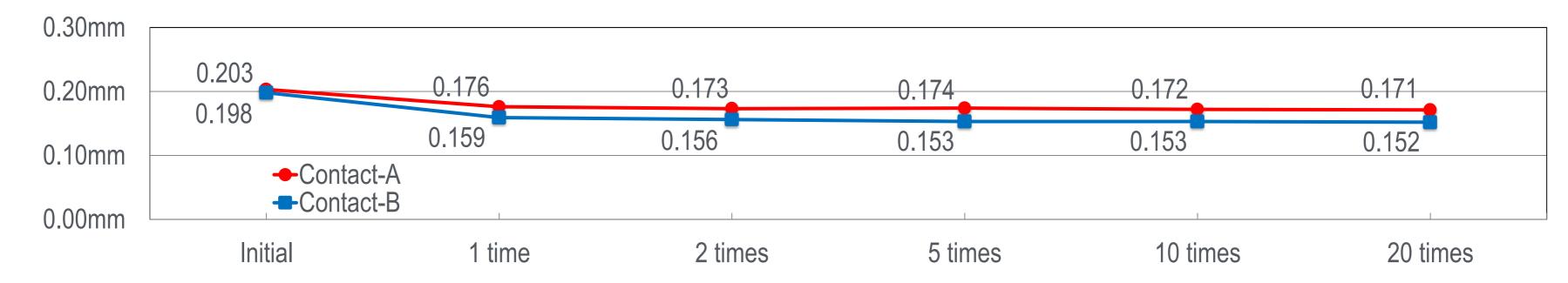
### **Designed with sharp edge for stronger FPC retention force**



### **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 39 pins before and after operating actuator without FPC inserted) 



Insertion force of connector goes up 

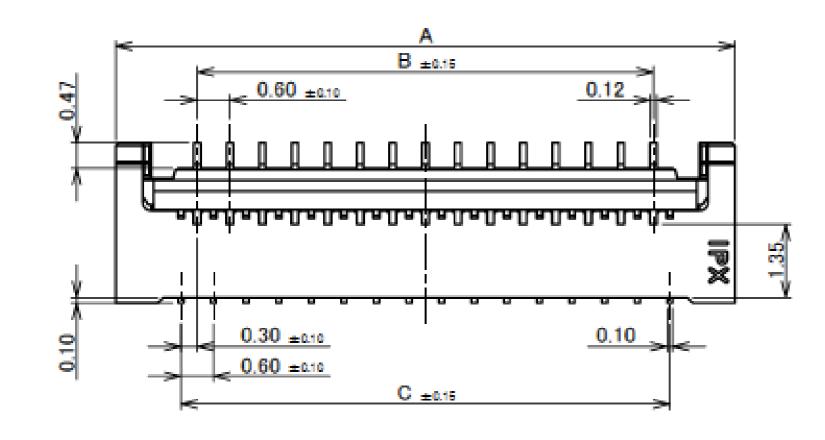
I-PEX

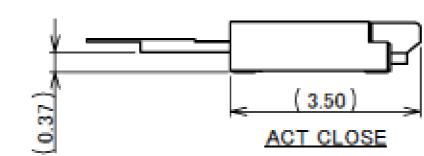
Retention force of connector does not change greatly 

# **Component Parts Details**

### **Connector Assembly**

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





(HF

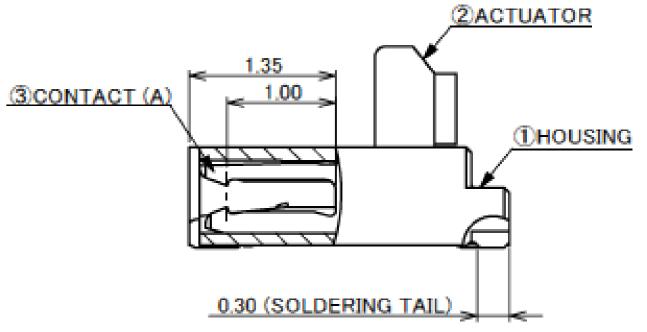
Halogen Free

	PART No.
	◆20660-031E-0
	20660-039E-0
Bolts )	20660-061E-0
	◆20660-071E-0

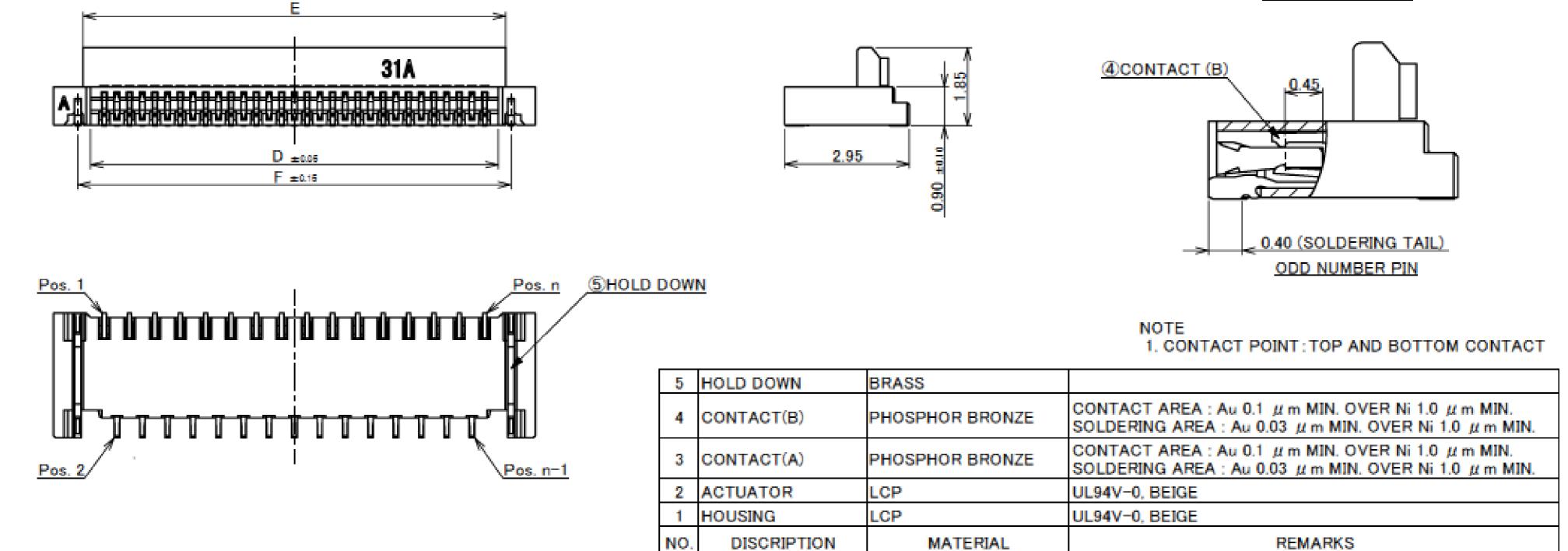
RoHS Compliant

PART No.	Pos.	Α	В	С	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.



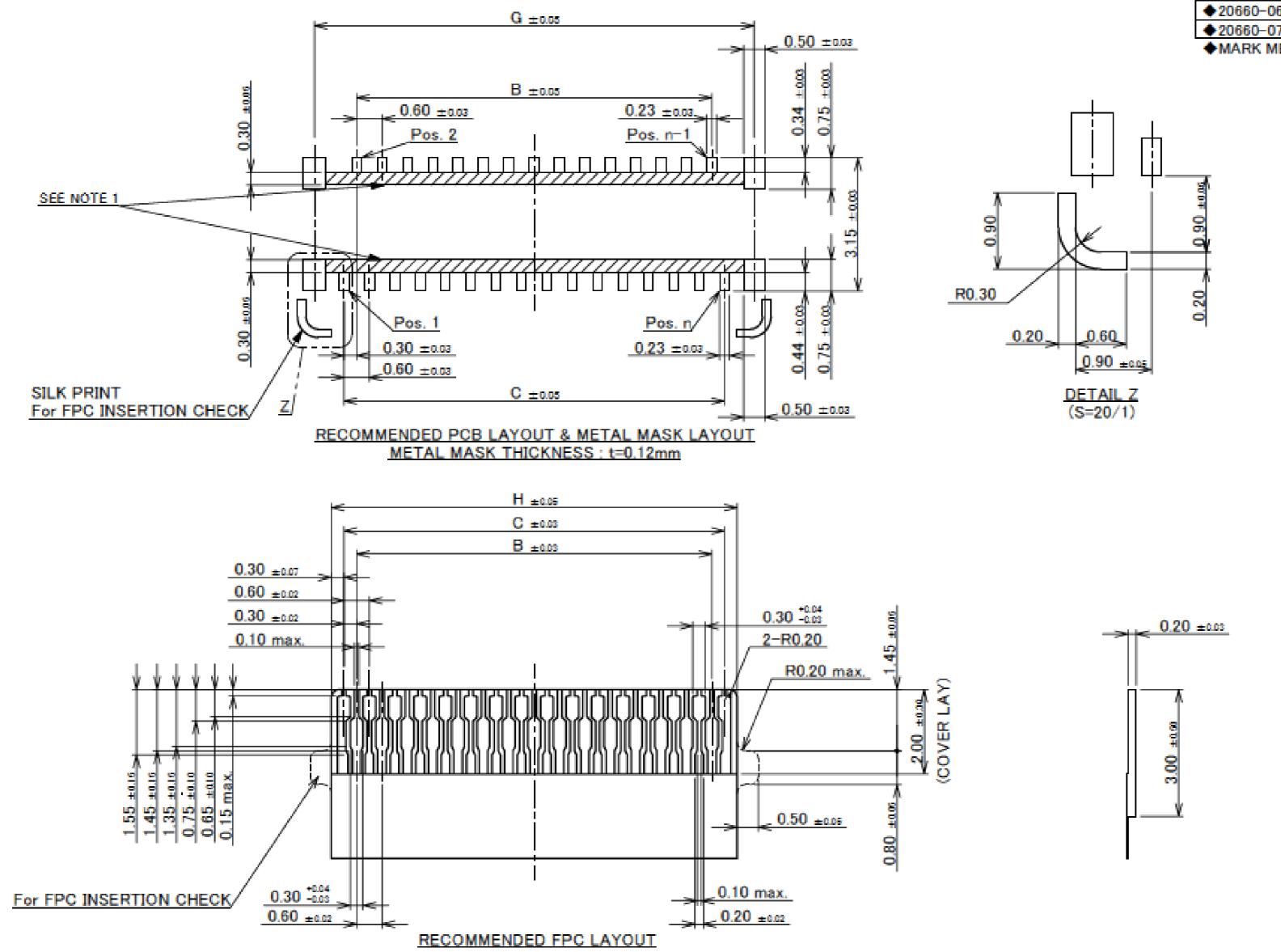
#### EVEN NUMBER PIN



Rev.9

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

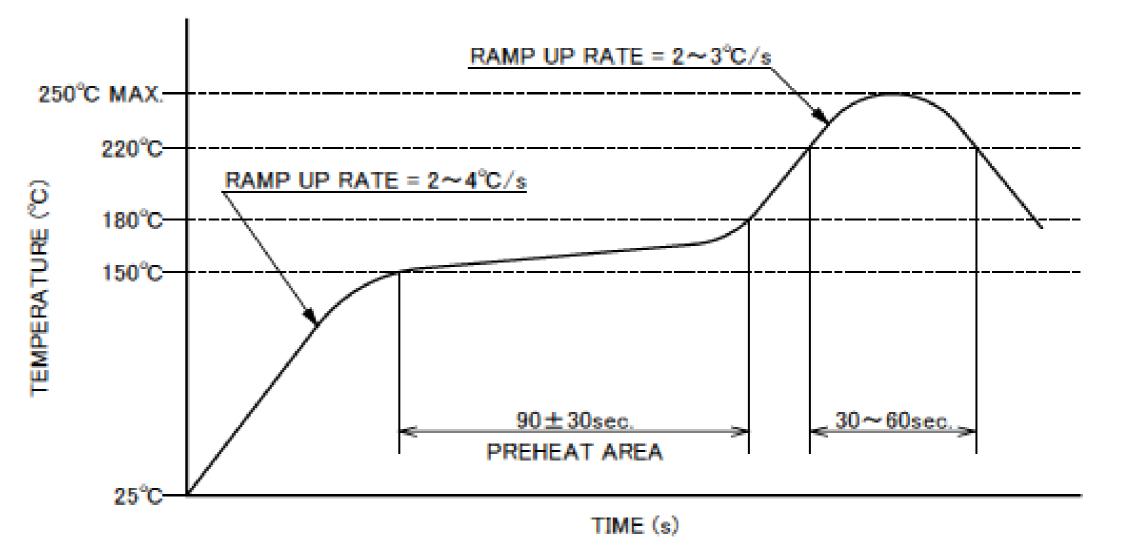
### **Connector Assembly**



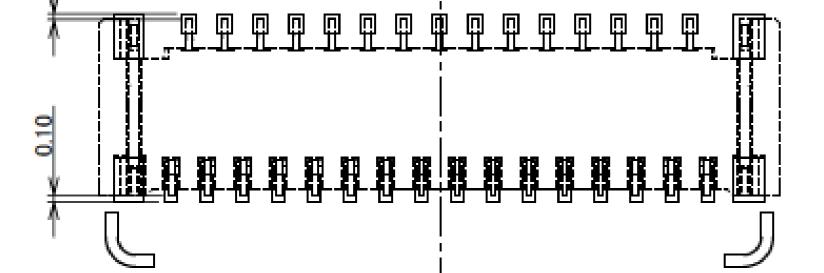
PART No.	Pos.	В	С	G	Η
20660-031E-01	31P	8.40	9.00	10.40	9.60
20660-039E-01	39P	10.80	11.40	12.80	12.00
20660-061E-01	61P	17.40	18.00	19.40	18.60
20660-071E-01	71P	20.40	21.00	22.40	21.60
MARK MEANS NOT AVAILABLE.					

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.9









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

## **Connector Assembly**

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ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm 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 : $0.13N(13gf) \times n MIN. / AFTER TEST : 0.10N(10gf) \times n MIN.$
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***

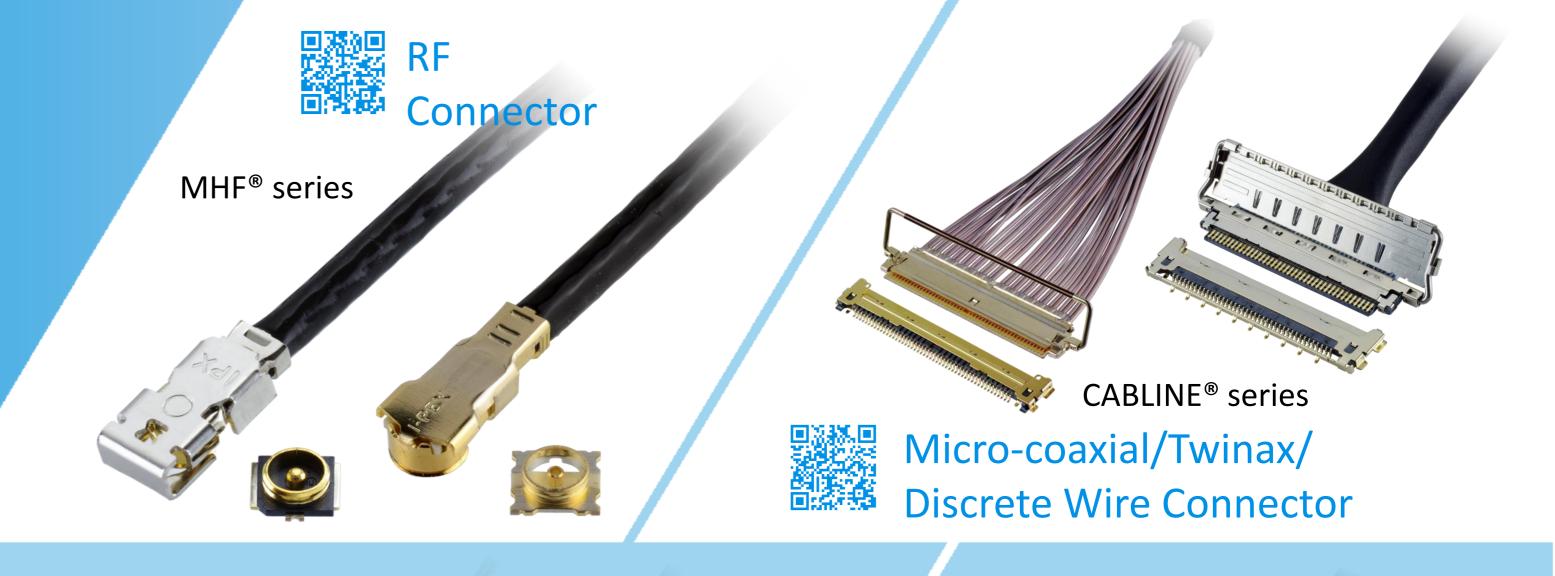
※ "n" IS THE NUMBER OF PIN

CAUTION PLEASE BE SURE TO READ AND UNDERSTAND "INSTRUCTION MANUAL"

## I-PEX

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

# Custom Connectors Available





LIGHTPASS<sup>®</sup> series



Board-to-Board Connector



**Power Connector/ 道深段** Terminal



MINIFLEX<sup>®</sup> series

NOVASTACK<sup>®</sup> series

EVAFLEX<sup>®</sup> series



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