#### **FPC/FFC** Connector

# MINIFLEX<sup>®</sup> 3-BFN L-HD

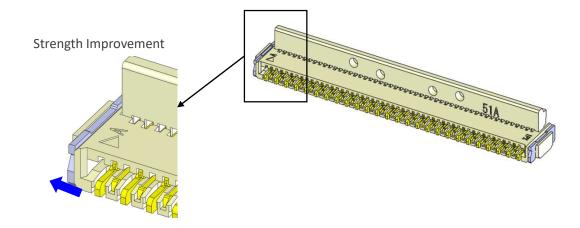
Robust design with hold-down feature, long actuator, low profile (Height = 0.9 mm),0.3 mm pitch, horizontal, backflip

cifications:		Applicable FPC/FFC:	
ch (mm)	0.3	FPC/FFC Contact Pitch	0.3
ath (mm)	Contact A:0.9	FPC/FFC Contact Point	Top and Bottom
igtri (mm)	Contact B:0.45	FPC/FFC Thickness (mm)	0.2 +/- 0.03
Height	0.90 +/- 0.10		
Width	Formula:1.5 + (0.3*?p)		
Depth	Open:2.55		
	Close:3.5		
Range	15-75 (odd)		
Available	51		
	ch (mm) ngth (mm) Height Width Depth Range	ch (mm) 0.3   ogth (mm) Contact A:0.9   Contact B:0.45 0.90 +/- 0.10   Width Formula:1.5 + (0.3*?p)   Depth Open:2.55   Close:3.5 Range   15-75 (odd)	ch (mm) 0.3 FPC/FFC Contact Pitch   ngth (mm) Contact A:0.9 FPC/FFC Contact Pitch   Contact B:0.45 FPC/FFC Contact Point   Height 0.90 +/- 0.10   Width Formula:1.5 + (0.3*?p)   Depth Open:2.55   Close:3.5 Close:3.5   Range 15-75 (odd)

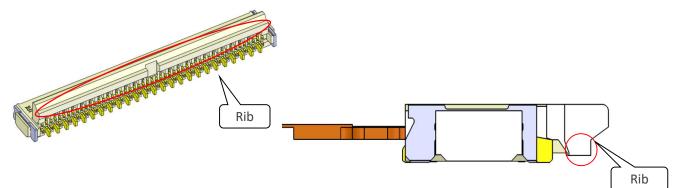


\* Please inquire for pin counts not listed or outside of the pin count range.

#### Hold-down feature improves strength of side wall



#### Designed to prevent contact distortion



When opening the actuator, the rib will prevent the contacts from being pulled up

#### 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 51 pins before and after operating actuator without FPC inserted).

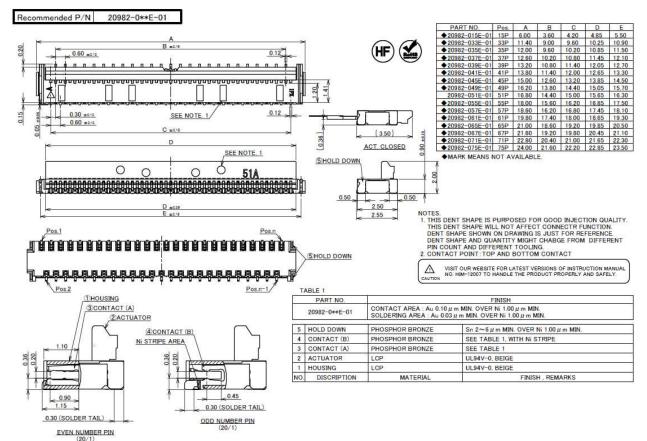
	Initial	1time	2time	5time	10time	20time
0.00mm	-CONTA	лст-в ,	1			1
0.10mm						
0.40	0.204	0.177	0.176	0.175	0.173	0.173
0.20mm	0.207	0.188	0.187	0.186	0.185	0.185
0.30mm —						

- Insertion force of connector goes up
- Retention force of connector does not change greatly



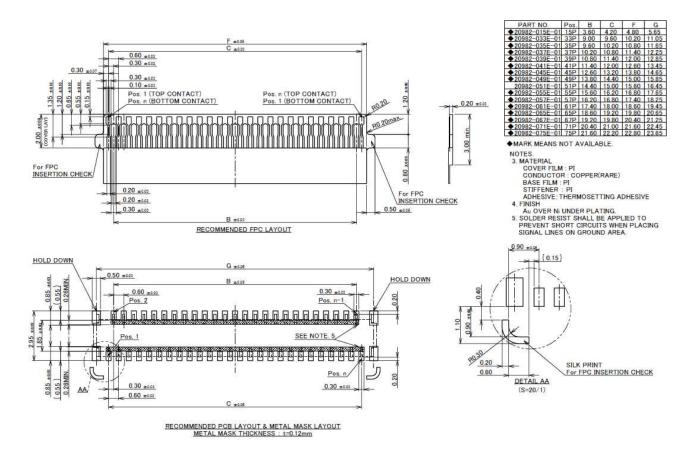
## **Component Parts Details**

#### **Connector Assembly**

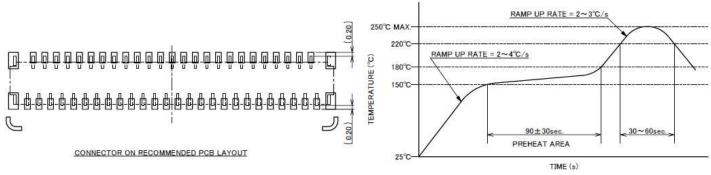


I-PEX

### Connector Assembly



Rev.0



REFLOW TEMPERATURE PROFILE SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 A#3.0 Cu0.5)

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Rev.0

### Connector Assembly

ITEMS	SPECIFICATION			
RATING VOLTAGE	50V AC (PER CONTACT)			
RATING AMPERAGE	0.3A DC (PER CONTACT)			
OPERATING TEMPERATURE	233~358K (-40°C~+85°C)			
OPERATING HUMIDITY	20~80%RH (NON-CONDENSING)			
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm MAX.			
INSULATION RESISTANCE	100Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min			
DURABILITY	20 CYCLES			
ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × n MAX.			
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 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-2650			
TEST REPORT	TR-20010			
PACKING STANDARD	PST-15093			
INSTRUCTION MANUAL	HIM-12007			
APPEARANCE CRITERIA No.	QLS-A***			

※ "n" IS THE NUMBER OF PIN

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