MINIFLEX® 5-BFN II LK

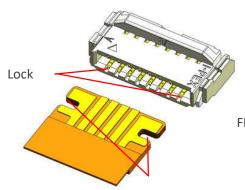
Mechanical lock, robust design with hold-down feature, low profile (height = 1.0 mm), 0.5 mm pitch, horizontal, backflip

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

	FPC/FFC Contact Pitch	0.5
	FPC/FFC Contact Point	Top and Bottom
	FPC/FFC Thickness (mm)	0.3 +/- 0.05
1		



High FPC retention force with additional mechanical lock

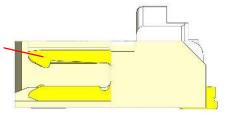


FPC with cutout

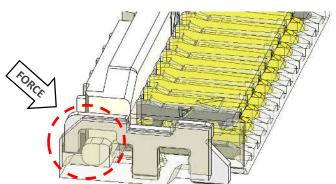
FPC LOCK mechanism maintains high FPC retention force



FPC retention force comparison (6 p)



Unique actuator holder design prevents actuator drop-off



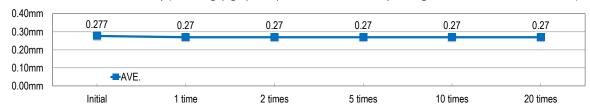
Actuator will not fall-off even at $100\ N$ force

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

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)



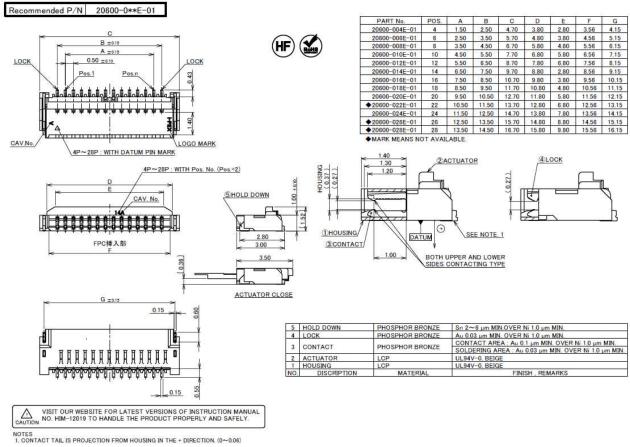
- Insertion force of connector goes up
- Retention force of connector does not change significantly



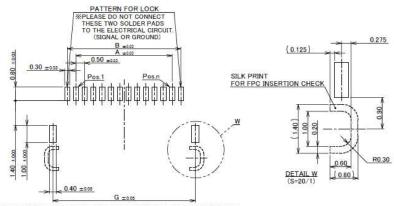
^{*} Please inquire for pin counts not listed or outside of the pin count range.

Component Parts Details

Connector Assembly



Connector Assembly



PART No.	POS.	Α	В	G	Н	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

♦MARK MEANS NOT AVAILABLE.

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

H = 0.05

J = 0.05

A = 0.05

0.50 = 0.05

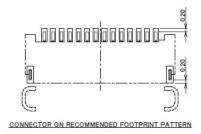
R0.10

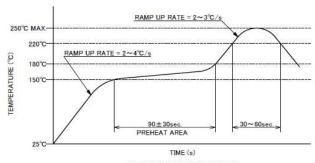
NOTES
2.MATERIAL
COVER FILM: PI
CONDUCTOR: COPPER(RARE)
BASE FILM: PI
STIFFENER: PI
AOHESIVE: THERMOSETTING ADHESIVE
3.FINISH
AU OVER NI PLATING.

COVER FILM CONDUCTOR BASE FILM:

STIFFENER:
ADHESIVE: T
3.FINISH
Au OVER N: F

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REFLOW TEMPERATURE PROFILE SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ar3.0 Cu0.5)



Connector Assembly

ITEMS	SPECIFICATION			
RATING VOLTAGE	50V AC (PER CONTACT)			
RATING AMPERAGE	0.5A DC (PER CONTACT) 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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