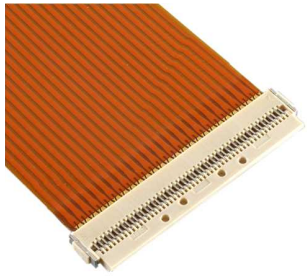


MINIFLEX® 3-BFN L-HD

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



- ✓ Hold-down feature improves strength of side wall
- ✓ Designed to prevent contact distortion
- ✓ Usability for closing actuator without FPC

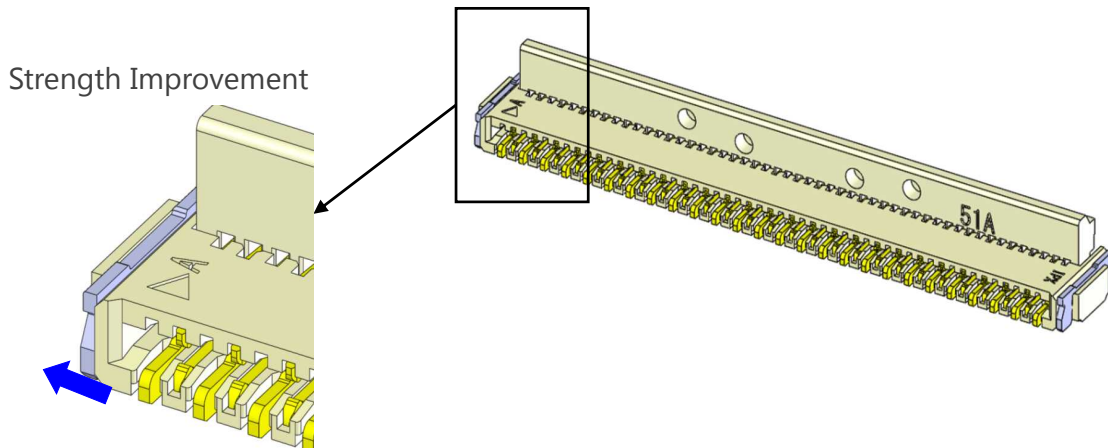
Pin counts:

Range	Up to 75
Available	51

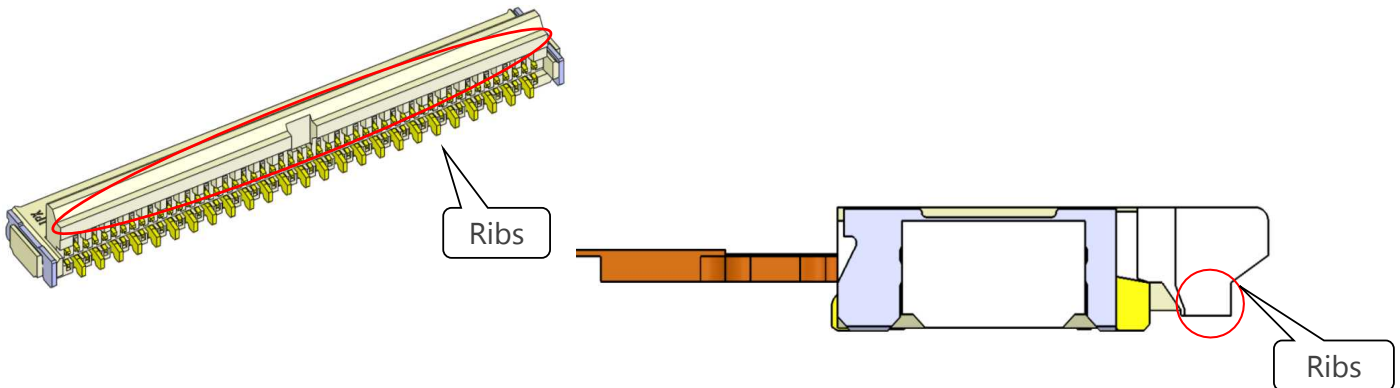
*Please inquire for pin counts not listed or outside of the pin count range..

Part Number		20718
Contact Pitch (mm)		0.30
Board Pitch (mm)		0.60
Height (mm)		0.90+/-0.10
Width Formula (mm)		1.5 + (0.3*?p)
Depth (mm)	Actuator Open	2.55
	Actuator Close	3.50
Wiping Length (mm)	Contact A	0.90
	Contact B	0.45
FPC Insertion Depth (mm)		1.10
FPC Thickness (mm)		0.2+/-0.03
Current Rating		0.3A /pin
Contact point		Top and Bottom
Compatibility		Original

Hold-down feature improves strength of side wall



Designed to prevent contact distortion

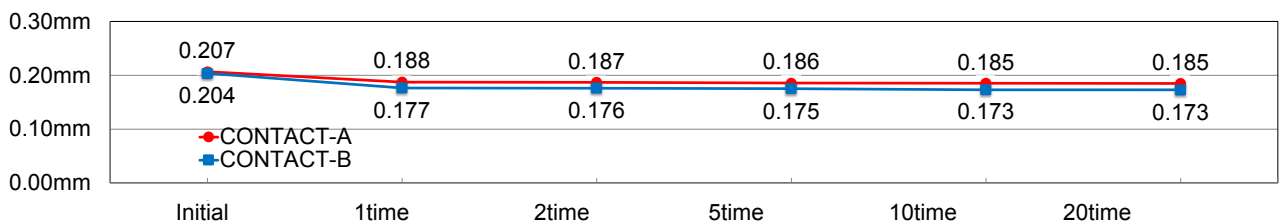


When opening the actuator, the ribs will prevent the contacts from being pulled up

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)



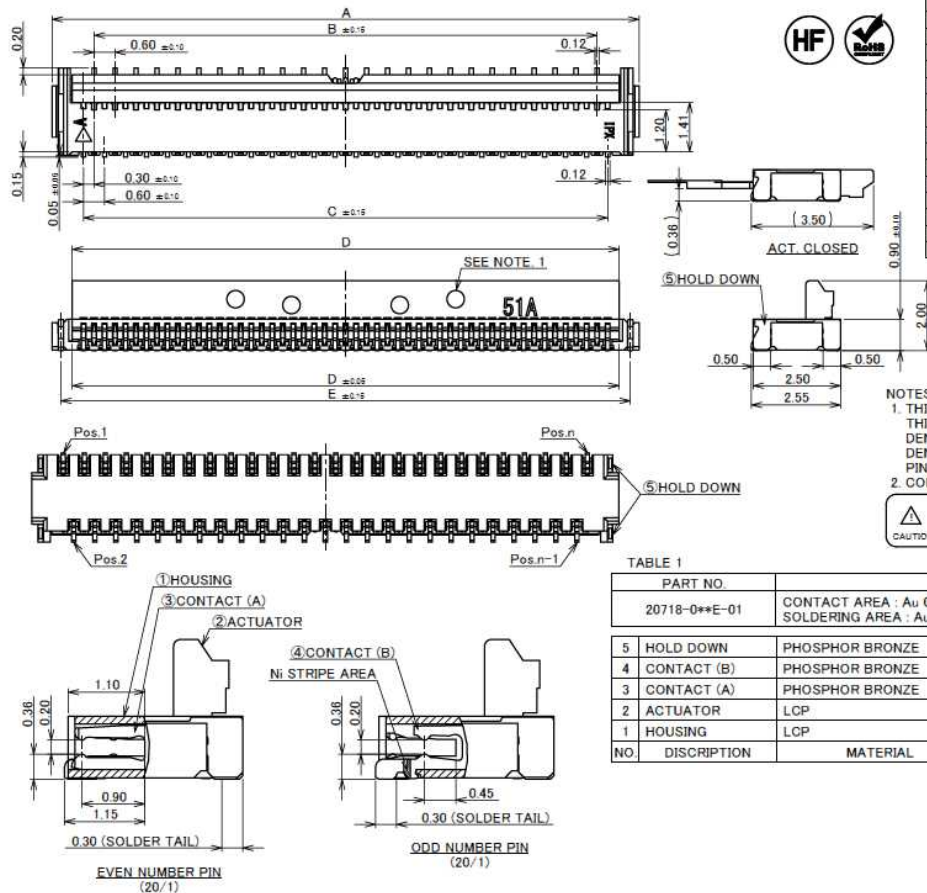
- Insertion force of connector goes up
- Retention force of connector does not change greatly

MINIFLEX® 3-BFN L-HD

Component Parts Detail

Connector Assembly :

Recommended P/N 20718-0**E-01



PART NO.	Pos.	A	B	C	D	E
◆20718-015E-01	15P	6.00	3.60	4.20	4.85	5.50
◆20718-033E-01	33P	11.40	9.00	9.60	10.25	10.90
◆20718-035E-01	35P	12.00	9.60	10.20	10.85	11.50
◆20718-037E-01	37P	12.60	10.20	10.80	11.45	12.10
◆20718-039E-01	39P	13.20	10.80	11.40	12.05	12.70
◆20718-041E-01	41P	13.80	11.40	12.00	12.65	13.30
◆20718-045E-01	45P	15.00	12.60	13.20	13.85	14.50
◆20718-049E-01	49P	16.20	13.80	14.40	15.05	15.70
◆20718-051E-01	51P	16.80	14.40	15.00	15.65	16.30
◆20718-055E-01	55P	18.00	15.60	16.20	16.85	17.50
◆20718-057E-01	57P	18.60	16.20	16.80	17.45	18.10
◆20718-061E-01	61P	19.80	17.40	18.00	18.65	19.30
◆20718-065E-01	65P	21.00	18.60	19.20	19.85	20.50
◆20718-067E-01	67P	21.60	19.20	19.80	20.45	21.10
◆20718-071E-01	71P	22.80	20.40	21.00	21.65	22.30
◆20718-075E-01	75P	24.00	21.60	22.20	22.85	23.50

◆ MARK MEANS NOT AVAILABLE.

NOTES

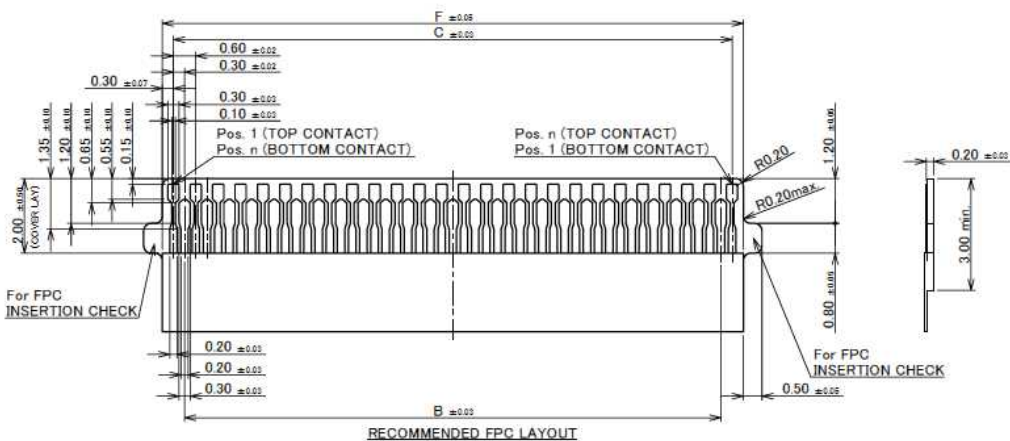
- THIS DENT SHAPE IS PURPOSED FOR GOOD INJECTION QUALITY. THIS DENT SHAPE WILL NOT AFFECT CONNECTR FUNCTION. DENT SHAPE SHOWN ON DRAWING IS JUST FOR REFERENCE. DENT SHAPE AND QUANTITY MIGHT CHABGE FROM DIFFERENT PIN COUNT AND DIFFERENT TOOLING.
- CONTACT POINT, TOP AND BOTTOM CONTACT

CAUTION VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-12007 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

TABLE 1

PART NO.	FINISH		
20718-0**E-01	CONTACT AREA : Au 0.10 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.		
5	HOLD DOWN	PHOSPHOR BRONZE Sn 2~6 μm MIN. OVER Ni 1.00 μm MIN.	
4	CONTACT (B)	PHOSPHOR BRONZE SEE TABLE 1, WITH Ni STRIPE	
3	CONTACT (A)	PHOSPHOR BRONZE SEE TABLE 1	
2	ACTUATOR	LCP UL94V-0, BEIGE	
1	HOUSING	LCP UL94V-0, BEIGE	
NO.	DISCRPTION	MATERIAL	FINISH , REMARKS

Connector Assembly :



PART NO.	Pos.	B	C	F	G
◆20718-015E-01	15P	3.60	4.20	4.80	5.65
◆20718-033E-01	33P	9.00	9.60	10.20	11.05
◆20718-035E-01	35P	9.60	10.20	10.80	11.65
◆20718-037E-01	37P	10.20	10.80	11.40	12.25
◆20718-039E-01	39P	10.80	11.40	12.00	12.85
◆20718-041E-01	41P	11.40	12.00	12.60	13.45
◆20718-043E-01	43P	12.00	12.60	13.20	14.05
◆20718-045E-01	45P	12.60	13.20	13.80	14.65
◆20718-047E-01	47P	13.20	13.80	14.40	15.25
◆20718-049E-01	49P	13.80	14.40	15.00	15.85
◆20718-051E-01	51P	14.40	15.00	15.60	16.45
◆20718-053E-01	53P	15.00	15.60	16.20	17.05
◆20718-055E-01	55P	15.60	16.20	16.80	17.65
◆20718-057E-01	57P	16.20	16.80	17.40	18.25
◆20718-059E-01	59P	16.80	17.40	18.00	18.85
◆20718-061E-01	61P	17.40	18.00	18.60	19.45
◆20718-063E-01	63P	18.00	18.60	19.20	20.05
◆20718-065E-01	65P	18.60	19.20	19.80	20.65
◆20718-067E-01	67P	19.20	19.80	20.40	21.25
◆20718-069E-01	69P	19.80	20.40	21.00	21.85
◆20718-071E-01	71P	20.40	21.00	21.60	22.45
◆20718-073E-01	73P	21.00	21.60	22.20	23.05

◆ MARK MEANS NOT AVAILABLE.

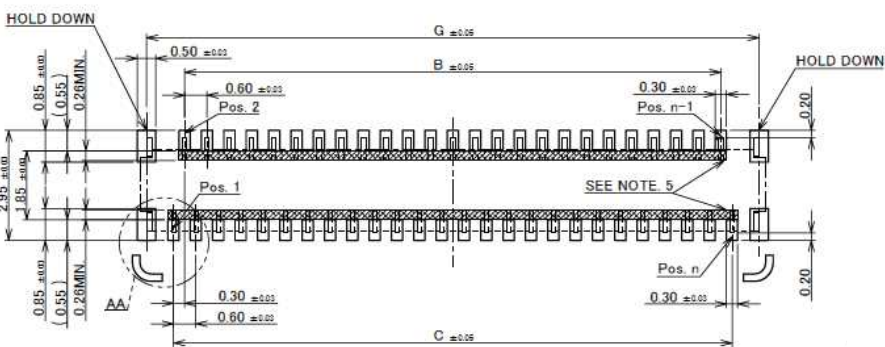
NOTES

3. MATERIAL

- COVER FILM : PI
- CONDUCTOR : COPPER(RARE)
- BASE FILM : PI
- STIFFENER : PI
- ADHESIVE : THERMOSETTING ADHESIVE

4. FINISH

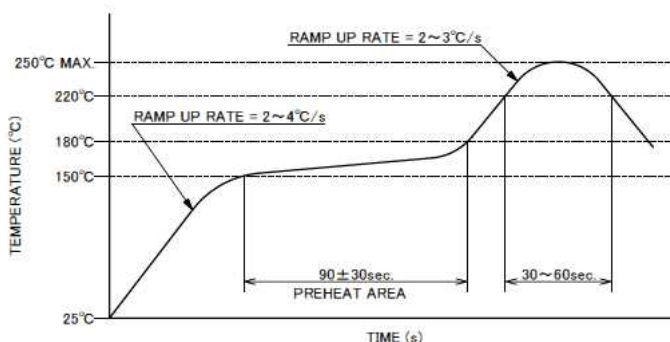
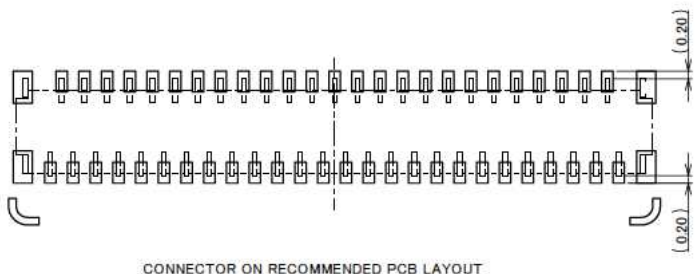
- Au OVER Ni UNDER PLATING.
- SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



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

Rev.7

Receptacle Assembly :



Rev.7

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 : \triangle 40mohm 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) \times n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) \times 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-2123
TEST REPORT	TR-15087
PACKING STANDARD	PST-15093
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

Rev.7



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