MINIFLEX® 3-BFN L-LK-HD

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

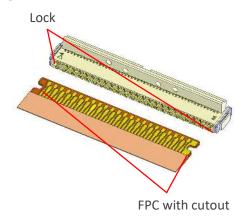
	Product Specifications:				
	Board Pitch (mm)		0.3		
	Wiping Length (mm)		Contact A:0.9		
			Contact B:0.45		
Ī	Size (mm)	Height	0.90 +/- 0.10		
		Width	Formula: Even no pos: 3.0+(0.3*?p).		
			Odd no pos: 2.7+(0.3*?p)		
		Depth	Open:2.55		
			Close:3.5		
	Pin counts	Range	11-57 (odd)		
		Available	11, 40, 45		

Applicable FPC/FFC:		
FPC/FFC Contact Pitch	0.3	
FPC/FFC Contact Point	Top and Bottom	
FPC/FFC Thickness (mm)	0.2 +/- 0.03	
TT C/TT C TIMERITESS (TIME)	0.2 1, 0.00	



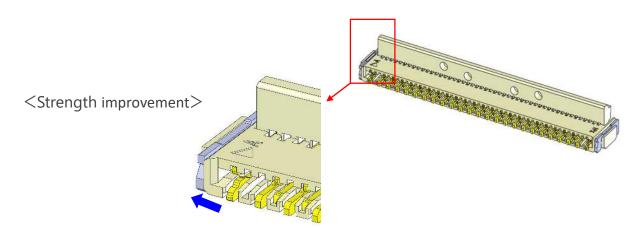
High FPC retention force with additional mechanical lock

FPC retention force comparison (45 p)



MINIFLEX [®] 3-BFN L-LK-HD	MINIFLEX® 3-BFN Long				
20.710 N	15.535 N				
FPC LOCK mechanism maintains high FPC retention force					

Hold down feature improves strength of side wall



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 MINIFLEX® 3-BFN L-HD 51 pins before and after operating actuator without FPC inserted)

0.30mm _						
0.20mm	0.207	0.188	0.187	0.186	0.185	0.185
0.10mm	0.204	0.177	0.176	0.175	0.173	0.173
0.1011111 0.00mm	CONTACT					
0.00111111	Initial	1time	2times	5times	10times	20times

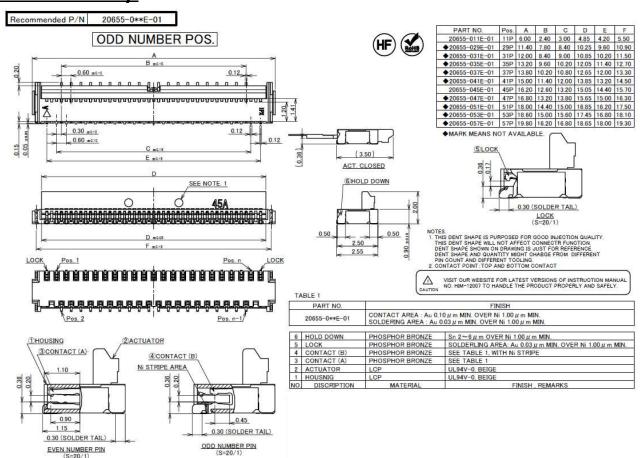
- Insertion force of connector goes up
- Retention force of connector does not change greatly



 $[\]ensuremath{^{*}}$ Please inquire for pin counts not listed or outside of the pin count range.

Component Parts Details

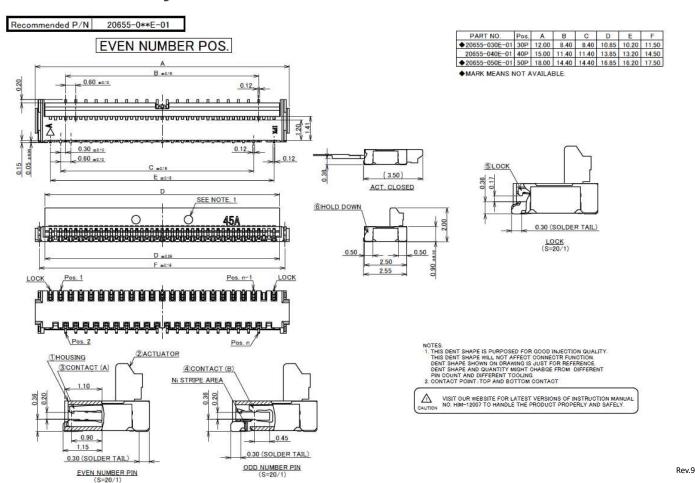
Connector Assembly

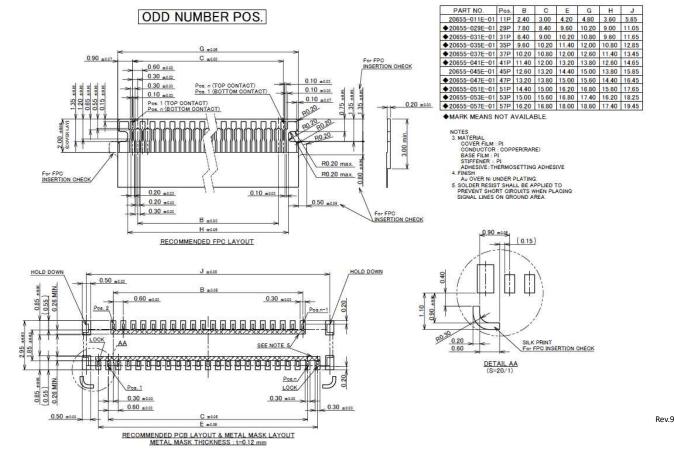




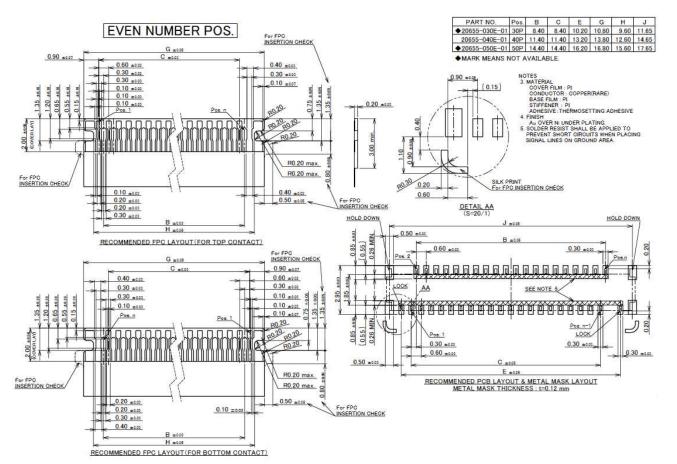


Connector Assembly

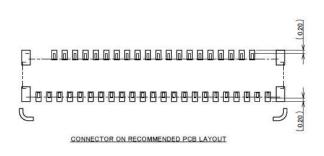


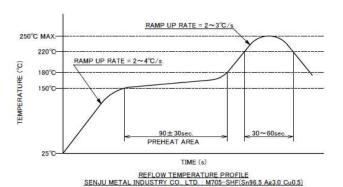


Connector Assembly



Rev.9





Rev.9

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (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: △40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) × (n + 2) MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) × n + 1.0N MIN. / AFTER TEST: 0.10N (10gf) × n + 1.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2077
TEST REPORT	TR-15027
PACKING STANDARD	PST-15018
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

Rev.9





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