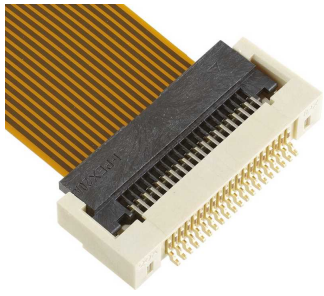


# MINIFLEX® 5-FF

Robust design with hold down feature, height = 2.55 mm, 0.5 mm pitch, horizontal, front flip



- ✓ Hold down feature improves strength of side wall and prevents actuator drop-off
- ✓ Small bump on actuator prevents actuator from opening accidentally
- ✓ FPC/FFC with or without tab is available

Pin counts:

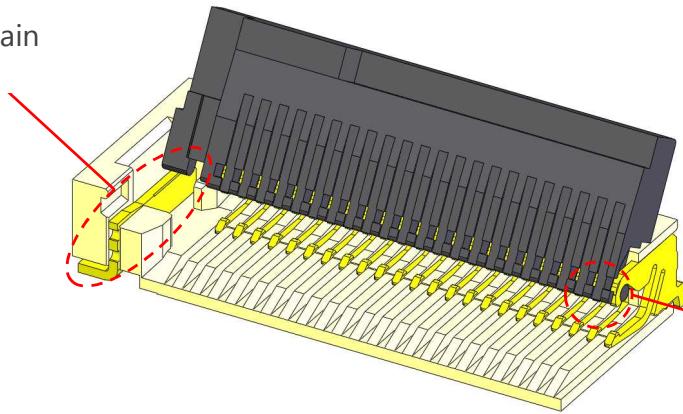
Range	Up to 50
Available	20, 30, 40, 50

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

Part Number	20647	
Contact Pitch (mm)	0.5	
Board Pitch (mm)	0.5	
Height (mm)	2.55 +/-0.2	
Width Formula (mm)	4.9+(0.5*?p)	
Depth(mm)	Actuator Open	6.40
	Actuator Close	7.20
Wiping Length (mm)	1.40	
FPC Insertion Depth(mm)	4.15	
FPC Thickness (mm)	0.30+/-0.05	
Current Rating	0.5A /pin	
Contact Point	Bottom	
Compatibility	HRS FH28 Foot/FPC pattern comp.	

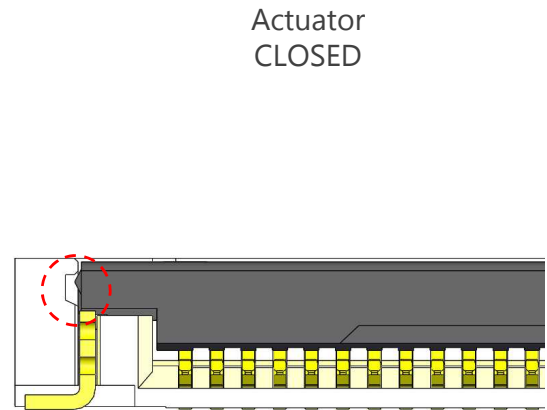
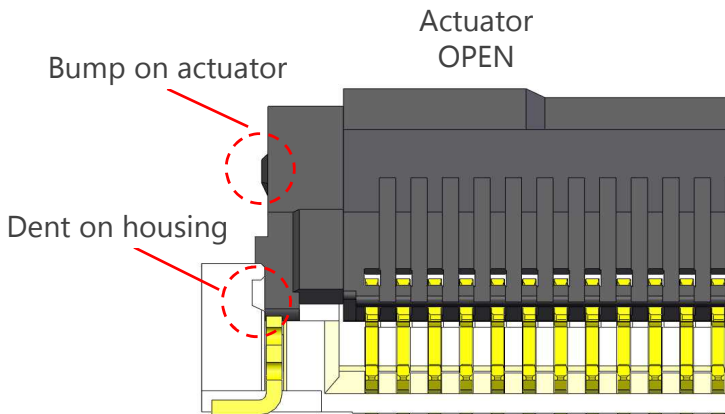
## Hold down feature improves strength of side wall and prevents actuator drop-off

Hold down parts retain actuator



Each contact parts retain actuator

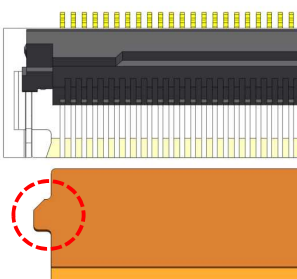
## Small bump on actuator prevents actuator from opening accidentally



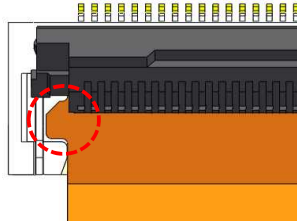
## FPC/FFC with or without tab is available

FPC/FFC with Tab

Before

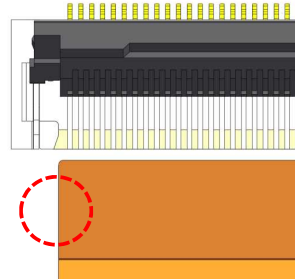


After

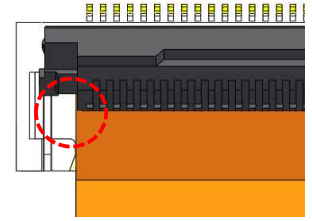


FPC/FFC without Tab

Before



After



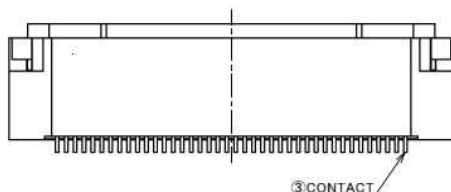
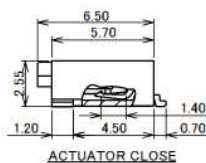
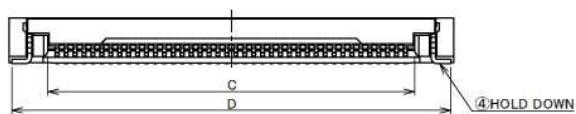
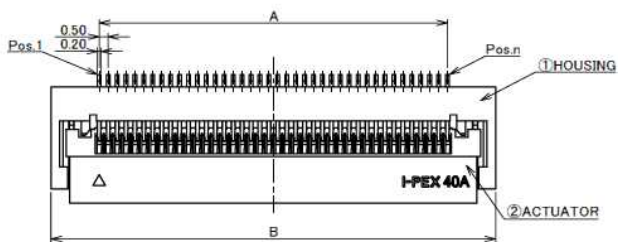
# MINIFLEX® 5-FF

## Component Parts Detail

### Connector Assembly :

Recommended P/N		20647-0**E-01			
PART No.	Pos.	A	B	C	D
20647-020E-01	20P	9.50	14.90	10.57	14.58
20647-030E-01	30P	14.50	19.90	15.57	19.58
20647-040E-01	40P	19.50	24.90	20.57	24.58
20647-050E-01	50P	24.50	29.90	25.57	29.58
◆ 20647-055E-01	55P	27.00	32.40	28.07	32.08
◆ 20647-060E-01	60P	29.50	34.90	30.57	34.58
◆ 20647-064E-01	64P	31.50	36.90	32.57	36.58
◆ 20647-068E-01	68P	33.50	38.90	34.57	38.58

◆ MEANS NOT AVAILABLE

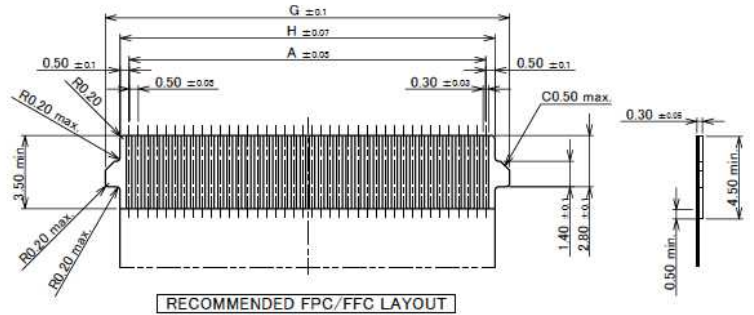
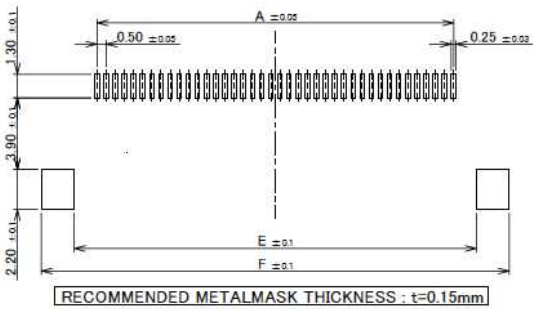
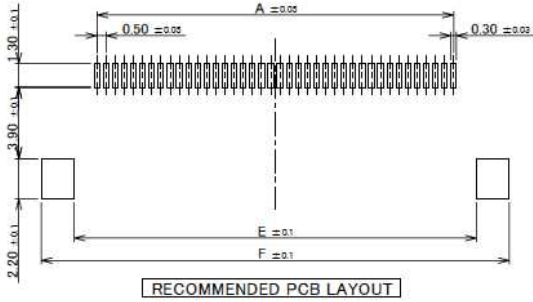


4	HOLD DOWN	COPPER ALLOY	SOLDERING AREA - Au 0.02 μm MIN. OVER Ni 1.00 μm MIN.
3	CONTACT	COPPER ALLOY	CONTACT AREA - Au 0.03 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA - Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
2	ACTUATOR	LCP	UL94V-0 BLACK
1	HOUSING	LCP	UL94V-0 BEIGE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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# Connector Assembly :

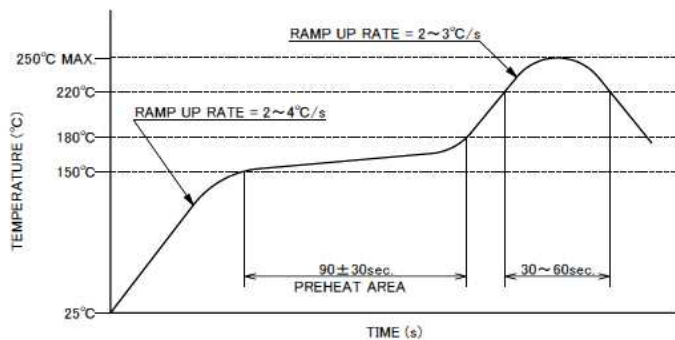
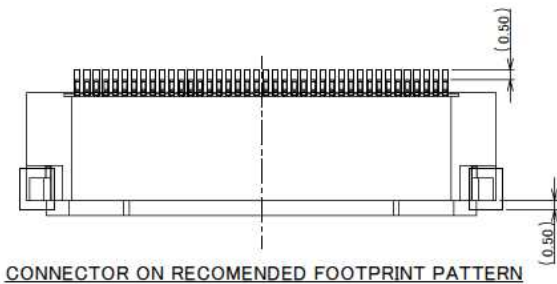
Pos.	A	E	F	G	H
20P	9.50	12.00	15.60	12.10	10.50
30P	14.50	17.00	20.60	17.10	15.50
40P	19.50	22.00	25.60	22.10	20.50
50P	24.50	27.00	30.60	27.10	25.50
55P	27.00	29.50	33.10	29.60	28.00
60P	29.50	32.00	35.60	32.10	30.50
64P	31.50	34.00	37.60	34.10	32.50
68P	33.50	36.00	39.60	36.10	34.50



- NOTES
- MATERIAL
    - COVER FILM : PI
    - CONDUCTOR : COPPER
    - BASE FILM : PI
    - STIFFENER : PI
    - ADHESIVE : THERMOSETTING ADHESIVE
  - FINISH
    - Au OVER Ni UNDER PLATING

Rev. 11

# Connector Assembly :



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

Rev. 11

# Connector Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.5A DC (PER CONTACT) / 0.35A DC(AVAILABLE FOR ALL PIN)
OPERATING TEMPERATURE	233~378K(-40°C~+105°C)
OPERATING HUMIDITY	90% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : <120mohm MAX.
INSULATION RESISTANCE	INITIAL : 500Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20 CYCLES
CABLE RETENTION FORCE	20P : 8.0N MIN.
	30P : 12.0N MIN.
	40P : 16.0N MIN.
	50P : 20.0N MIN.
	55P : 22.0N MIN.
	60P : 24.0N MIN.
	64P : 25.6N MIN.
68P : 27.2N MIN.	
PRODUCT SPECIFICATION	PRS-2039
TEST REPORT	TR-14129
PACKING STANDARD	PST-14086
INSTRUCTION MANUAL	HIM-15007
APPEARANCE CRITERIA No.	QLS-A***

Rev. 11



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