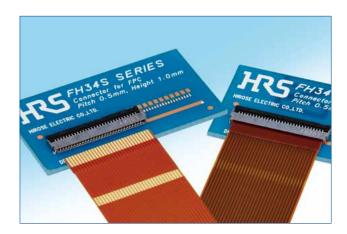
0.5mm Pitch, 1.0mm above the board Top and Top/Bottom Contact, Back-Flip **Actuator Flexible Printed Circuit & Flexible Flat Cable ZIF Connectors**

FH34 Series



Features

1. Low-profile

With the 1.0mm above the board and width of 3.8mm the connectors are used in space saving applications. (Fig.2)

2. FH34SRJ : Increased FPC/FFC retention force

As compared with existing similar construction connectors:

- * In horizontal direction : Approximately 2.6 times higher
- * In vertical direction : Approximately 2 times higher

3. FH34D : Mechanical lock type

FPC/FFC retention force can be further enhanced by the mechanism of lock contacts.

* In horizontal direction : Approximately 2.5N higher than FH34SRJ (Fig.3)

4. Unique Back-Flip rotating actuator

The rotating actuator opens from the back of the connector, assuring reliable electrical and mechanical connection. (Fig.4)

5. Easy FPC insertion and reliable electrical connection

Proven Flip Lock actuator allows easy insertion of FPC and provides a tactile sensation when fully closed, confirming complete electrical and mechanical connection.

6. Delivered with the actuator open

FPC/FPC can be immediately inserted without the need for the opening of the actuator. (Fig.2)

7. Accepts standard FPC thickness

0.3mm thick standard Flexible Printed Circuit (FPC) can be used. This is the only ultra-low profile ZIF connector using standard FPC.

8. Conductive traces on the PCB can run under the connector

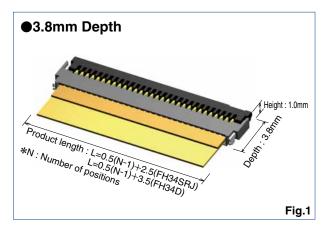
No exposed contacts on the bottom of the connector.

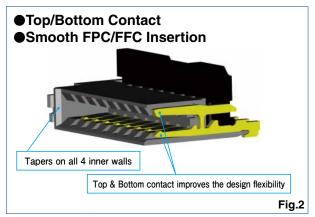
9. Halogen-free*

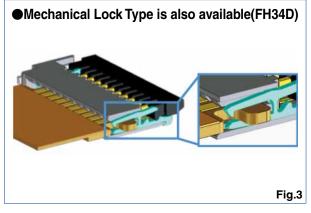
*As defined by IEC61249-2-21 Br-900ppm maximum, Cl-900ppm maximum, Cl + Br combined-1,500ppm maximum

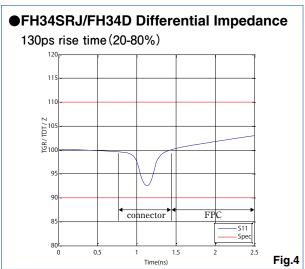
10. Board placement with automatic equipment

Flat upper surface and tape and reel packaging facilitate vacuum pick-up and placement. Standard reel packaging contains 5000 connectors.









■Product Specifications

Ratings Current rating 0.5A (Note 1) Voltage rating 50Vrms AC	Operating humidity range :	Storage temperature range : -10 to +50°C (Note 3) Storage humidity range : Relative humidity 90% max. (No condensation)
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Recommended FPC/FFC Thickness: 0.3 ± 0.03 mm, Gold plated contact pads

Item	Specification	Conditions
1. Insulation resistance	500MΩ min.	100V DC
2. Withstanding voltage	No flashover or insulation breakdown	250Vrms AC / 1 minute
3. Contact resistance	100mΩ max. ★ Including FPC and FFC conductor resistance	1mA, AC / DC 20mV max (AC : 1kHz)
4. Durability	Contact resistance : $100m\Omega$ max. No damage, cracks, or parts dislocation	20cycles
5. Vibration	No electrical discontinuity of $1\mu s$ or longer Contact resistance : $100m\Omega$ max. No damage, cracks, or parts dislocation	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 10 cycles in each of the 3 axis
6. Shock	No electrical discontinuity of $1\mu s$ or longer Contact resistance : $100m\Omega$ max. No damage, cracks, or parts dislocation	Acceleration of 981m/s², 6 ms duration, sine halfwave, 3 cycles in each of the 3 axis
7. Humidity (Steady state)	Contact resistance : $100m\Omega$ max. Insulation resistance : $50M\Omega$ min. No damage, cracks, or parts dislocation	96 hours at 40°C and humidity of 90 to 95%
8. Temperature cycle	Contact resistance : $100m\Omega$ max. Insulation resistance : $50M\Omega$ min. No damage, cracks, or parts dislocation	Temperature : $-55^{\circ}\text{C} \rightarrow +15^{\circ}\text{C}$ to $+35^{\circ}\text{C} \rightarrow +105^{\circ}\text{C} \rightarrow +15^{\circ}\text{C}$ to $+35^{\circ}\text{C}$ Time : $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3 minutes 5 cycles
9. Resistance to soldering heat	No deformation of components affecting performance	Reflow : At the recommended temperature profile Manual soldering : 350°C ±10°C for 5 seconds (Note 3)

Note1: When passing the current through all of the contacts, use 70% of the rated current.

Note2: Includes temperature rise caused by current flow.

Note3: The term "storage" refers to products stored for a long period prior to mounting and use.

The operating temperature and humidity range covers the non-conducting condition of installed connectors in storage, shipment or during transportation after board mounting.

■Materials / Finish

Part	Material	Finish	Remarks	
	LCP			
Insulator	PA	Color Diods	UL94V-0	
	LCP(8pos.)	Color : Black		
Contacts	Phosphor bronze	Gold plating with nickel barrier		
Metalfittings	Phosphor bronze	Pure tin reflow plating		

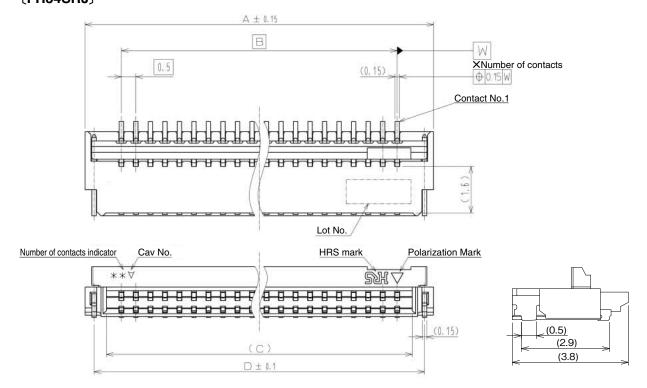
■Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

Please select from the product numbers listed in this catalog when placing orders.

1 Series name : FH	5 Contact pitch : 0.5mm
2 Series No. : 34	6 Termination type
3 SRJ: FPC/FFC notches non-applicable	SH: SMT horizontal mounting type
D : FPC/FFC notches applicable	7 Specifications
4 Number of Contacts : 4 to 50	(50)Standard product 5,000 pcs/reel (99)500 pcs/reel

■Connector Dimensions (FH34SRJ)



Note 1: The coplanarity of each terminal lead within specified dimension is 0.1mm Max.

Note 2 : Packaged on tape and reel only. Check packaging specification.

Note 3: Slight variations in color of the plastic compounds do not affect form, fit or function of the connector.

Note 4: After reflow, the terminal plating may change color, however this does not represent a quality issue.

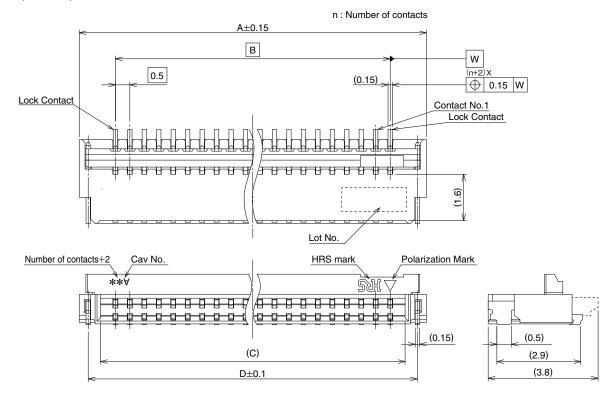
Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
FH34SRJ-4S-0.5SH(50)	580-1238-7 50	4	4	1.5	2.53	3.38
FH34SRJ-5S-0.5SH(50)	580-1264-7 50	5	4.5	2	3.03	3.88
FH34SRJ-6S-0.5SH(50)	580-1236-1 50	6	5	2.5	3.53	4.38
FH34SRJ-7S-0.5SH(50)	580-1200-0 50	7	5.5	3	4.03	4.88
FH34SRJ-8S-0.5SH(50)	580-1231-8 50	8	6	3.5	4.53	5.38
FH34SRJ-9S-0.5SH(50)	580-1262-1 50	9	6.5	4	5.03	5.88
FH34SRJ-10S-0.5SH(50)	580-1251-5 50	10	7	4.5	5.53	6.38
FH34SRJ-11S-0.5SH(50)	580-1258-4 50	11	7.5	5	6.03	6.88
FH34SRJ-12S-0.5SH(50)	580-1253-0 50	12	8	5.5	6.53	7.38
FH34SRJ-14S-0.5SH(50)	580-1252-8 50	14	9	6.5	7.53	8.38
FH34SRJ-16S-0.5SH(50)	580-1259-7 50	16	10	7.5	8.57	9.38
FH34SRJ-18S-0.5SH(50)	580-1248-0 50	18	11	8.5	9.57	10.38
FH34SRJ-20S-0.5SH(50)	580-1256-9 50	20	12	9.5	10.57	11.38
FH34SRJ-22S-0.5SH(50)	580-1254-3 50	22	13	10.5	11.57	12.38
FH34SRJ-24S-0.5SH(50)	580-1255-6 50	24	14	11.5	12.57	13.38
FH34SRJ-26S-0.5SH(50)	580-1247-8 50	26	15	12.5	13.57	14.38
FH34SRJ-30S-0.5SH(50)	580-1232-0 50	30	17	14.5	15.57	16.38
FH34SRJ-32S-0.5SH(50)	580-1257-1 50	32	18	15.5	16.53	17.38
FH34SRJ-34S-0.5SH(50)	580-1261-9 50	34	19	16.5	17.53	18.38
FH34SRJ-40S-0.5SH(50)	580-1260-6 50	40	22	19.5	20.53	21.38
FH34SRJ-45S-0.5SH(50)	580-1265-0 50	45	24.5	22	23.03	23.88
FH34SRJ-50S-0.5SH(50)	580-1266-2 50	50	27	24.5	25.53	26.38

Note: Tape and reel packaging. (5,000pcs/reel, 500pcs/reel)

Order by number of reels.

■Connector Dimensions [FH34D]



Note 1: The coplanarity of each terminal lead within specified dimension is 0.1mm Max.

Note 2: Packaged on tape and reel only. Check packaging specification.

Note 3: Slight variations in color of the plastic compounds do not affect form, fit or function of the connector.

Note 4: After reflow, the terminal plating may change color, however this does not represent a quality issue.

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
FH34D-4S-0.5SH(50)	Under developing (Note 1)	4	5	2.5	3.53	4.38
FH34D-6S-0.5SH(50)	Under developing (Note 1)	6	6	3.5	4.53	5.38
FH34D-8S-0.5SH(50)	Under developing (Note 1)	8	7	4.5	5.53	6.38
FH34D-10S-0.5SH(50)	580-1270-0 50	10	8	5.5	6.53	7.38
FH34D-12S-0.5SH(50)	Under developing (Note 1)	12	9	6.5	7.53	8.38
FH34D-14S-0.5SH(50)	Under developing (Note 1)	14	10	7.5	8.57	9.38
FH34D-16S-0.5SH(50)	Under developing (Note 1)	16	11	8.5	9.57	10.38
FH34D-20S-0.5SH(50)	Under developing (Note 1)	20	13	10.5	11.57	12.38
FH34D-24S-0.5SH(50)	Under developing (Note 1)	24	15	12.5	13.57	14.38
FH34D-30S-0.5SH(50)	Under developing (Note 1)	30	18	15.5	16.53	17.38

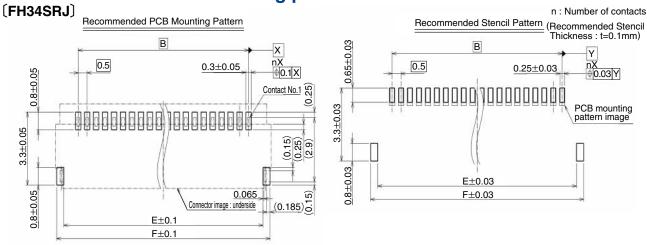
Note 1: Contact positions without HRS No. are currently under developing.

Please contact HIROSE for detailed information about product variation.

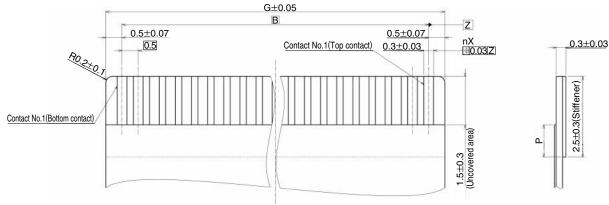
Note 2: Tape and reel packaging. (5,000pcs/reel, 500pcs/reel)

Order by number of reels.

● Recommended PCB mounting pattern and metal mask dimensions



●Recommended FPC/FFC Dimensions



Note 1 : Dimension P shall be 0.5mm min.

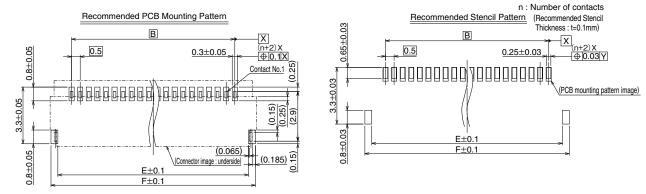
Note 2 : The recommended FPC pattern above has been designed only for FH34SRJ series.

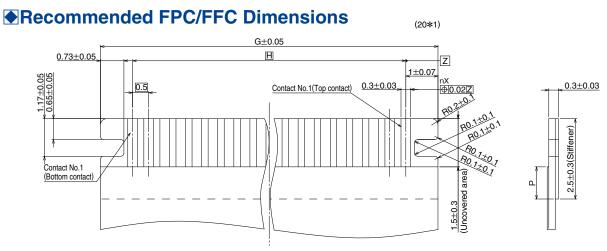
When using the FPC for FH19SC series (lower contact), uncoverd area shall be 2.5±0.3mm and stiffener shall be 3.5mm min.

Unit: mm

						•
Part No.	HRS No.	No. of Contacts	В	Е	F	G
FH34SRJ-4S-0.5SH(50)	580-1238-7 50	4	1.5	3.1	3.9	2.5
FH34SRJ-5S-0.5SH(50)	580-1264-7 50	5	2	3.6	4.4	3
FH34SRJ-6S-0.5SH(50)	580-1236-1 50	6	2.5	4.1	4.9	3.5
FH34SRJ-7S-0.5SH(50)	580-1200-0 50	7	3	4.6	5.4	4
FH34SRJ-8S-0.5SH(50)	580-1231-8 50	8	3.5	5.1	5.9	4.5
FH34SRJ-9S-0.5SH(50)	580-1262-1 50	9	4	5.6	6.4	5
FH34SRJ-10S-0.5SH(50)	580-1251-5 50	10	4.5	6.1	6.9	5.5
FH34SRJ-11S-0.5SH(50)	580-1258-4 50	11	5	6.6	7.4	6
FH34SRJ-12S-0.5SH(50)	580-1253-0 50	12	5.5	7.1	7.9	6.5
FH34SRJ-14S-0.5SH(50)	580-1252-8 50	14	6.5	8.1	8.9	7.5
FH34SRJ-16S-0.5SH(50)	580-1259-7 50	16	7.5	9.1	9.9	8.5
FH34SRJ-18S-0.5SH(50)	580-1248-0 50	18	8.5	10.1	10.9	9.5
FH34SRJ-20S-0.5SH(50)	580-1256-9 50	20	9.5	11.1	11.9	10.5
FH34SRJ-22S-0.5SH(50)	580-1254-3 50	22	10.5	12.1	12.9	11.5
FH34SRJ-24S-0.5SH(50)	580-1255-6 50	24	11.5	13.1	13.9	12.5
FH34SRJ-26S-0.5SH(50)	580-1247-8 50	26	12.5	14.1	14.9	13.5
FH34SRJ-30S-0.5SH(50)	580-1232-0 50	30	14.5	16.1	16.9	15.5
FH34SRJ-32S-0.5SH(50)	580-1257-1 50	32	15.5	17.1	17.9	16.5
FH34SRJ-34S-0.5SH(50)	580-1261-9 50	34	16.5	18.1	18.9	17.5
FH34SRJ-40S-0.5SH(50)	580-1260-6 50	40	19.5	21.1	21.9	20.5
FH34SRJ-45S-0.5SH(50)	580-1265-0 50	45	22	23.6	24.4	23
FH34SRJ-50S-0.5SH(50)	580-1266-2 50	50	24.5	26.1	26.9	25.5

■ Recommended PCB mounting pattern and metal mask dimensions (FH34D)





Note 1: Dimension P shall be 0.5mm min.

Note 2: The recommended FPC pattern above has been designed only for FH34D series.

Unit: mm

Part No.	HRS No.	No. of Contacts	В	Е	F	G	Н
FH34D-4S-0.5SH(50)	Under developing (Note 1)	4	2.5	4.1	4.9	3.5	1.5
FH34D-6S-0.5SH(50)	Under developing (Note 1)	6	3.5	5.1	5.9	4.5	2.5
FH34D-8S-0.5SH(50)	Under developing (Note 1)	8	4.5	6.1	6.9	5.5	3.5
FH34D-10S-0.5SH(50)	580-1270-0 50	10	5.5	7.1	7.9	6.5	4.5
FH34D-12S-0.5SH(50)	Under developing (Note 1)	12	6.5	8.1	8.9	7.5	5.5
FH34D-14S-0.5SH(50)	Under developing (Note 1)	14	7.5	9.1	9.9	8.5	6.5
FH34D-16S-0.5SH(50)	Under developing (Note 1)	16	8.5	10.1	10.9	9.5	7.5
FH34D-20S-0.5SH(50)	Under developing (Note 1)	20	10.5	12.1	12.9	11.5	9.5
FH34D-24S-0.5SH(50)	Under developing (Note 1)	24	12.5	14.1	14.9	13.5	11.5
FH34D-30S-0.5SH(50)	Under developing (Note 1)	30	15.5	17.1	17.9	16.5	14.5

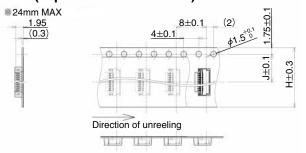
Note 1 : Contact positions without HRS No. are currently under developing.

Please contact HIROSE for detailed information about product variation.

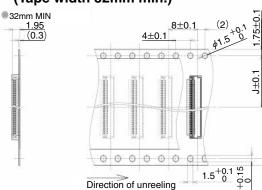
●Packaging Specification

(FH34SRJ)

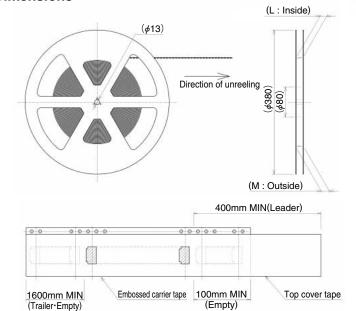
Embossed Carrier Tape Dimensions (Tape width 24mm max.)



Embossed Carrier Tape Dimensions (Tape width 32mm min.)



Reel Dimensions



Unit: mm

Part No.	HRS No.	No. of Contacts	Н	J	K	L	Unit : mm							
FH34SRJ-4S-0.5SH(50)	580-1238-7 50	4			_	_								
FH34SRJ-5S-0.5SH(50)	580-1264-7 50	5			_									
FH34SRJ-6S-0.5SH(50)	580-1236-1 50	6			_									
FH34SRJ-7S-0.5SH(50)	580-1200-0 50	7	16	7.5	_	17.4	21.4							
FH34SRJ-8S-0.5SH(50)	580-1231-8 50	8	10	7.5	_	17.4	21.4							
FH34SRJ-9S-0.5SH(50)	580-1262-1 50	9			_									
FH34SRJ-10S-0.5SH(50)	580-1251-5 50	10			_									
FH34SRJ-11S-0.5SH(50)	580-1258-4 50	11			_									
FH34SRJ-12S-0.5SH(50)	580-1253-0 50	12			_									
FH34SRJ-14S-0.5SH(50)	580-1252-8 50	14			_	25.4	29.4							
FH34SRJ-16S-0.5SH(50)	580-1259-7 50	16			_									
FH34SRJ-18S-0.5SH(50)	580-1248-0 50	18	24	11.5	_									
FH34SRJ-20S-0.5SH(50)	580-1256-9 50	20	24		_	20.4	29.4							
FH34SRJ-22S-0.5SH(50)	580-1254-3 50	22			_									
FH34SRJ-24S-0.5SH(50)	580-1255-6 50	24			_									
FH34SRJ-26S-0.5SH(50)	580-1247-8 50	26			_									
FH34SRJ-30S-0.5SH(50)	580-1232-0 50	30												
FH34SRJ-32S-0.5SH(50)	580-1257-1 50	32	32	14.2	28.4	33.4	37.4							
FH34SRJ-34S-0.5SH(50)	580-1261-9 50	34												
FH34SRJ-40S-0.5SH(50)	580-1260-6 50	40	44											
FH34SRJ-45S-0.5SH(50)	580-1265-0 50	45		20.2	40.4	45.4	49.4							
FH34SRJ-50S-0.5SH(50)	580-1266-2 50	50												

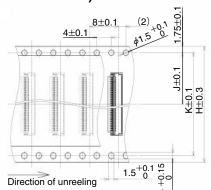
●Packaging Specification (FH34D)

Embossed Carrier Tape Dimensions (Tape width 24mm max.)

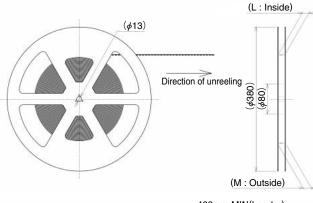
24mm MAX 1.95 Direction of unreeling 12.0

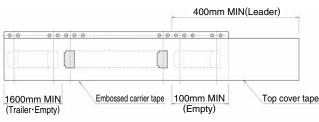
Embossed Carrier Tape Dimensions (Tape width 32mm min.)





Reel Dimensions





Unit: mm

							•		
Part No.	HRS No.	No. of Contacts	Н	J	K	L	М		
FH34D-4S-0.5SH(50)	Under developing (Note 1)	4			-				
FH34D-6S-0.5SH(50)	Under developing (Note 1)	6	16	7.5	-	17.4	21.4		
FH34D-8S-0.5SH(50)	Under developing (Note 1)	8			-				
FH34D-10S-0.5SH(50)	580-1270-0 50	10			-				
FH34D-12S-0.5SH(50)	Under developing (Note 1)	12				-			
FH34D-14S-0.5SH(50)	Under developing (Note 1)	14	0.4	24 11.5	-	25.4	29.4		
FH34D-16S-0.5SH(50)	Under developing (Note 1)	16	24		-	25.4	29.4		
FH34D-20S-0.5SH(50)	Under developing (Note 1)	20					-		
FH34D-24S-0.5SH(50)	Under developing (Note 1)	24			-				
FH34D-30S-0.5SH(50)	Under developing (Note 1)	30	32	14.2	28.4	33.4	37.4		

Note 1: Contact positions without HRS No. are currently under developing.

Please contact HIROSE for detailed information about product variation.

●Recommended FPC construction

Contact FPC manufacturer for specific details.

1. Using Single-sided FPC

FPC: Flexible Printed Circuit

	Material Name	Material	Material Thickness (μm)
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Covering film layer	Polyimide 1 mil thick	(25)
	Cover adhesive		(25)
	Surface treatment	$0.2\mu m$ thick gold plated over 1 to $5\mu m$ thick nickel underplating	3
	Copper foil	Cu 1oz	35
	Base adhesive	Thermosetting adhesive	25
	Base film	Polyimide 1 mil thick	25
	Reinforcement material adhesive	Thermosetting adhesive	35
	Stiffener	Polyimide 7 mil thick	175
		Total	298

2. Using Double-sided FPC

FPC: Flexible Printed Circuit

	Material Name	Material	Material Thickness (μm)
	Covering layer film	Polyimide 1 mil thick	(25)
///////// /	Cover adhesive		(25)
	Surface treatment	$0.2\mu m$ thick gold plated over 1 to $5\mu m$ thick nickel underplating	3
	Through-hole copper	Cu	15
	Copper foil	Cu 1/2oz	18
	Base adhesive	Thermosetting adhesive	18
	Base film	Polyimide 1 mil thick	25
√	Base adhesive		18
	Copper foil	Cu 1/2oz	(18)
	Cover adhesive	Thermosetting adhesive	25
	Covering film layer	Polyimide 1 mil thick	25
	Reinforcement material adhesive	Thermosetting adhesive	50
	Stiffener	Polyimide 4 mil thick	100
* To prevent release of the FPC due to its bending.	use of the double	Total	297

sided FPC with copper foil on the back side is not recommended.

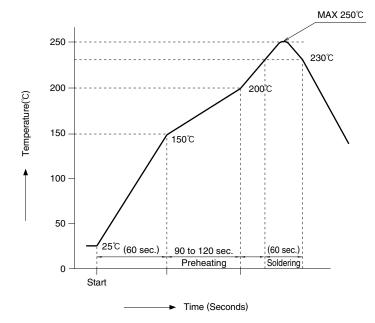
3. Using FFC **FFC: Flexible Flat Cable**

	Material Name	Material	Material Thickness (μm)
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Polyester film		(12)
-	Adhesive	Thermoplastic polyester	(30)
←	Gold plated annealed copper foil		35
←	Adhesive	Polyester	30
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Polyester		12
———	Adhesive	Polyester	30
	Stiffener	Polyester	188
		Total	295

* tolerance of $\pm 20 \mu m$.

- 1. This specification is a recommendation for the construction of the FH34SRJ/FH34D Series FPC and FFC (t=0.3 \pm 0.03).
- 2. For details about the construction, please contact the FPC/FFC manufacturers.

●Temperature Profile



HRS test condition

Solder method : Reflow, IR/hot air

Environment : Room air

Solder composition: Paste, 96.5%Sn/3.0%Ag/0.5%Cu

(Senju Metal Industry, Co., Ltd.'s Part

Number:

M705-221CM5-42-10.5)

Test board : Glass epoxy

18.3mm×32.85mm×0.8mm thick

Land dimensions : 0.3mm×0.8mm

Metal mask : 0.25×0.65×0.1mm thick

The temperature profiles shown are based on the above conditions.

In individual applications the actual temperature may vary, depending on solder paste type, volume / thickness and board size / thickness. Consult your solder paste and equipment manufacturer for specific recommendations.

Operation and Precautions

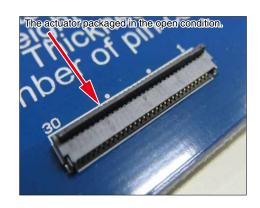
Exercise care when handling connectors. Follow recommendations given below.

Operation

Caution: Handle connectors carefully, as they are very small and thin. Please refer to this section for verification of the following points:

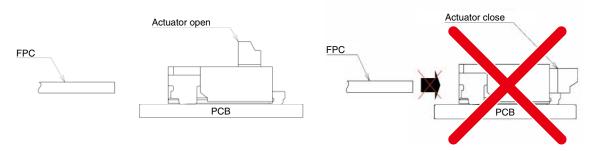
1. As delivered

- Delivered with the actuator open. There is no need to operate the actuator prior to inserting the FPC/FFC.
 [Precautions]
 - Do not close the actuator without the FPC/FPC inserted.



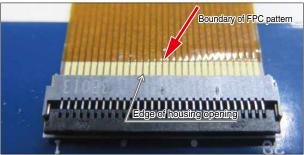
2. FPC/FFC insertion

- Be sure that the FPC is parallel to the surface of the PCB, then completely insert into the connector.
 [Caution]
 - · Do not attempt to insert the FPC if actuator is closed.
 - · If the actuator is closed and if the FPC is twisted during insertion, it can cause contact deformation and / or contact failure.



3. FPC/FFC insertion (The top contact specification)

Insert the FPC/FFC with the conductive surfaces facing up. Align the FPC/FFC straight with the connector and insert it firmly all the way.









Proper insertion Skewed insertion

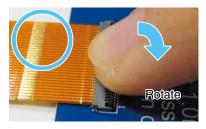
Shallow insertion

Operation and Precautions

Operation

4. Locking

1 After FPC/FFC insertion, rotate the actuator down to a full stop, pushing it at the center.



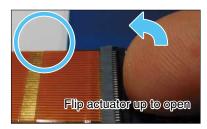


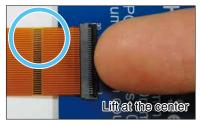




5. FPC/FFC removal (Lock release)

1 Carefully rotate the actuator up to 90°, lifting it at the center.









* This connector uses a back flip type structure. The insert direction of the FPC and the actuator are different from front flip type connectors.

Do not to try to open the actuator from the FPC side.

♦Operation and Precautions

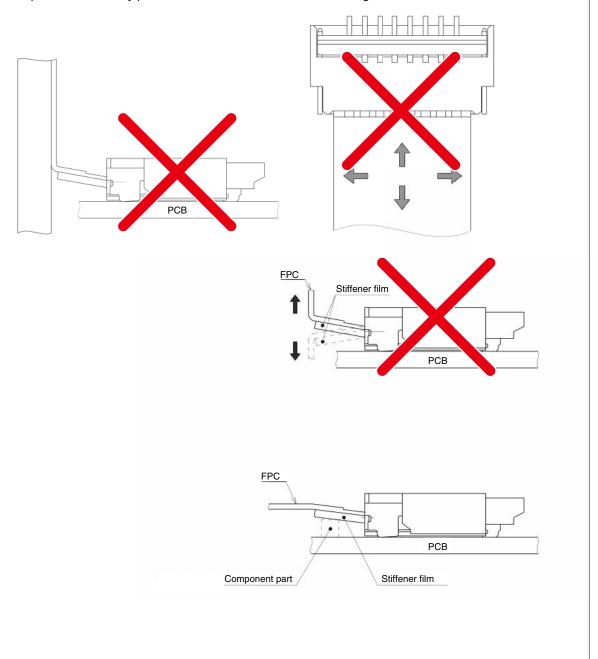
Operation

6. FPC routing

1 FPC should be routed in a manner that no strain or load is exerted onto the FPC. Placing any strain on the FPC may result in unintentional disconnect or damage to the FPC, which can lead to issues such as contact failure.

[Caution]

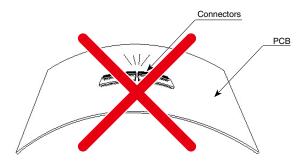
- · Do not allow the FPC or stiffener to touch the casings, housings or any other items.
- · When routing the FPC, make sure that no strain or load is applied to the connector in a pulling, pushing or side-to-side motion. Additionally, make sure that no excessive upward or downward force is applied to the
- · When routing the FPC, make sure that there is a stress free path for the FPC and the stiffener is parallel to the PCB. Observe correct bend radiuses.
- · Do not place or mount any parts that will interfere with the FPC routing.



Operation and Precautions

Precautions when mounting connectors on the PCB

- ♦ Handling before mounting on PCB Insertion of the FPC/FFC or operation of the actuator prior to mounting on the PCB is not recommended.
- ◆PC board warpage Minimize the warpage as much as possible. The connector are straight within 0.1 mm max. Make sure that the mounting area flatness can accept the connector terminals without causing any failure of the solder joints.
- Forces on the board
- ◆When braking the large PC board into individual boards exercise care not to damage the installed connectors
- ◆When attaching the boards or other components with the screws make sure that any stresses will not cause board deflections affecting the mounting areas of the connector.



- When hand soldering:
 - · Do not perform hand soldering with the FPC inserted in the connector.
 - * Do not apply excessive heat or touch the soldering iron anywhere other than the connector leads.
 - * Do not use excessive amount of solder or flux compounds.

Operation of the actuator or contacts may be affected by excessive amounts of solder or flux compounds.

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