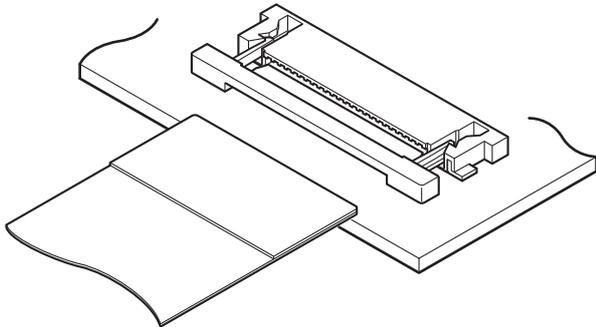




FLH CONNECTOR

0.5 mm pitch/ Board-to-FPC connector/ ZIF type



This is a 0.5 mm pitch FPC connector with a mounting height of 1.2 mm, compatible with standard FPCs with a terminal (lead) thickness of 0.3 mm.

This connector features a Zero Insertion Force (ZIF) connection to effectively extend the lifespan of FPCs by reducing wear during mating and unmating.

- Low profile
- Heat-resistant design compatible with reflow soldering
- Inline surface mount compatible with FPC leads
- Two connection types available: normal and reverse
- Embossed taping for automated mounting

■ Specifications

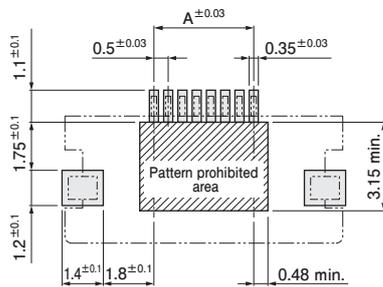
- Current rating: 0.5 A AC/DC
- Voltage rating: 50 V AC/DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Initial value/ 40 mΩ max.
 - After environmental tests/ 60 mΩ max.
- Insulation resistance: 800 MΩ min.
- Withstanding voltage:
 - There shall be no breakdown or flashover while applying 200 VAC for one minute.
- Applicable FPC:
 - Conductor pitch/ 0.5 ± 0.03 mm
 - Conductor width/ 0.35 ± 0.04 mm
 - Lead thickness / 0.3 ± 0.03 mm
- * Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

■ Standards

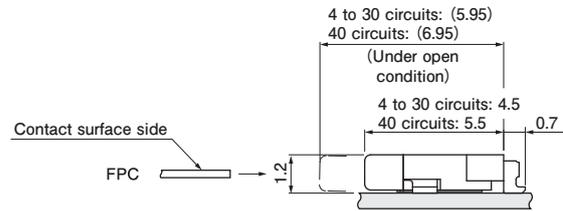
For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

- * Specifications registered to overseas standards may differ from the general specifications listed above.

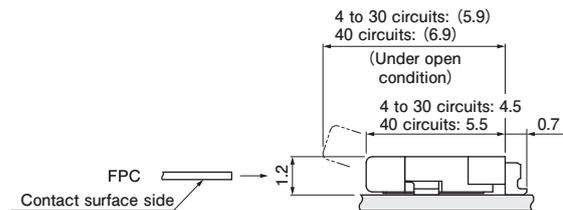
PC board layout and Assembly layout



Normal type (Upper contact type)



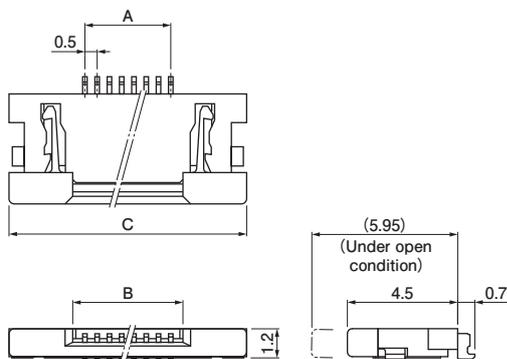
Reverse type (Bottom contact type)



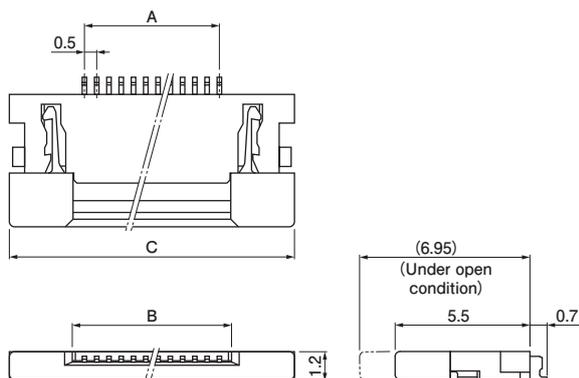
- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
 2. Dimension A: See "Connector" section on page 2 or 3.
 3. Tolerance for the PCB pattern pitch shall be ± 0.03 , and shall not accumulate more than ± 0.03 .
 4. The above dimensions are reference values. Please contact JST for details.

Connector

Normal type (Upper contact type) <4 to 30 circuits>



<40 circuits>



Normal type (Upper contact type)

No. of circuits	Model No.	Dimensions (mm)			Q'ty/reel
		A	B	C	
4	04FLH-SM1-TB	1.5	2.55	7.7	3,000
6	06FLH-SM1-TB	2.5	3.55	8.7	3,000
8	08FLH-SM1-TB	3.5	4.55	9.7	3,000
9	09FLH-SM1-TB	4.0	5.05	10.2	3,000
10	10FLH-SM1-TB	4.5	5.55	10.7	3,000
11	11FLH-SM1-TB	5.0	6.05	11.2	3,000
12	12FLH-SM1-TB	5.5	6.55	11.7	3,000
13	13FLH-SM1-TB	6.0	7.05	12.2	3,000
14	14FLH-SM1-TB	6.5	7.55	12.7	3,000
16	16FLH-SM1-TB	7.5	8.55	13.7	3,000
17	17FLH-SM1-TB	8.0	9.05	14.2	3,000
18	18FLH-SM1-TB	8.5	9.55	14.7	3,000
20	20FLH-SM1-TB	9.5	10.55	15.7	3,000
21	21FLH-SM1-TB	10.0	11.05	16.2	3,000
22	22FLH-SM1-TB	10.5	11.55	16.7	3,000
24	24FLH-SM1-TB	11.5	12.55	17.7	3,000
30	30FLH-SM1-TB	14.5	15.55	20.7	3,000
40	40FLH-SM1-TB	19.5	20.55	25.7	3,000

Material and Surface finish, etc.

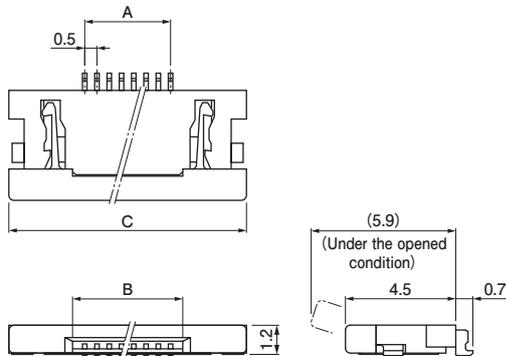
- Contact: Copper alloy, copper-undercoated, tin-plated
- Housing: Heat resisting resin
- Reinforcement: Copper alloy, copper-undercoated, tin-plated
- Slider: Heat resisting resin

- Note: 1. This product displays (LF)(SN) on a label.
 2. This product is supplied on embossed tape and reel packaging.
 3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

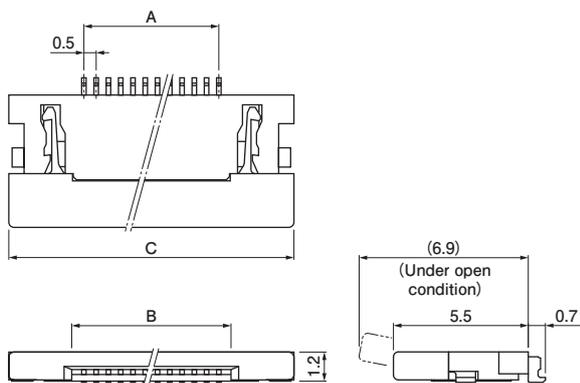
Connector

Reverse type (Bottom contact type)

<4 to 30 circuits>



<40 circuits>



Reverse type (Bottom contact type)

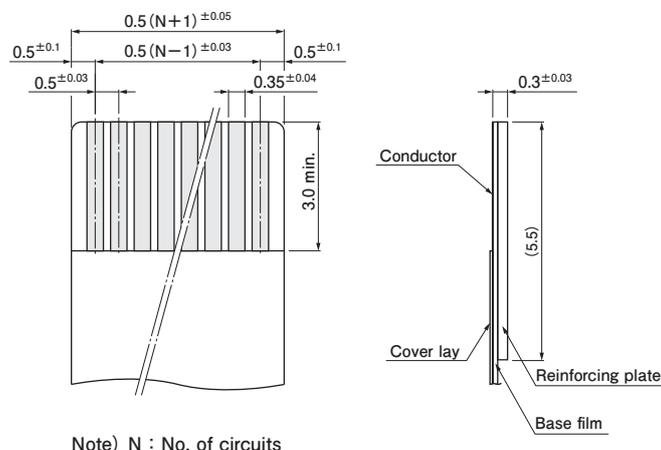
No. of circuits	Model No.	Dimensions (mm)			Q'ty/reel
		A	B	C	
4	04FLH-RSM1-TB	1.5	2.55	7.7	3,000
6	06FLH-RSM1-TB	2.5	3.55	8.7	3,000
8	08FLH-RSM1-TB	3.5	4.55	9.7	3,000
9	09FLH-RSM1-TB	4.0	5.05	10.2	3,000
10	10FLH-RSM1-TB	4.5	5.55	10.7	3,000
12	12FLH-RSM1-TB	5.5	6.55	11.7	3,000
13	13FLH-RSM1-TB	6.0	7.05	12.2	3,000
14	14FLH-RSM1-TB	6.5	7.55	12.7	3,000
15	15FLH-RSM1-TB	7.0	8.05	13.2	3,000
16	16FLH-RSM1-TB	7.5	8.55	13.7	3,000
17	17FLH-RSM1-TB	8.0	9.05	14.2	3,000
18	18FLH-RSM1-TB	8.5	9.55	14.7	3,000
20	20FLH-RSM1-TB	9.5	10.55	15.7	3,000
22	22FLH-RSM1-TB	10.5	11.55	16.7	3,000
24	24FLH-RSM1-TB	11.5	12.55	17.7	3,000
28	28FLH-RSM1-TB	13.5	14.55	19.7	3,000
30	30FLH-RSM1-TB	14.5	15.55	20.7	3,000
40	40FLH-RSM1-TB	19.5	20.55	25.7	3,000

Material and Surface finish, etc.

Contact: Copper alloy, copper-undercoated, tin-plated
Housing: Heat resisting resin
Reinforcement: Copper alloy, copper-undercoated, tin-plated
Slider: Heat resisting resin

- Note: 1. This product displays (LF)(SN) on a label.
2. This product is supplied on embossed tape and reel packaging.
3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Dimensions of FPC lead section



Note) N : No. of circuits