

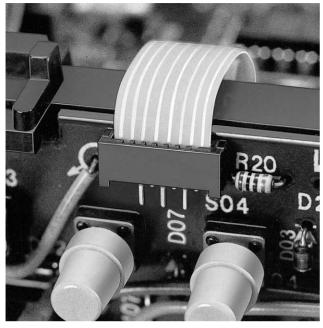
FM CONNECTOR



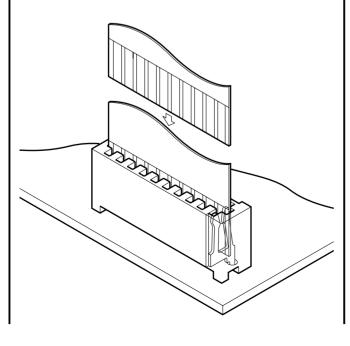


1.0mm

Connectors for FFC and FPC



The FM connector, a miniature connector with a thickness of only 3.0mm, was developed to connect flexible flat cables (FFC) or flexible printed circuits (FPC) with a lead pitch of 1.0mm to printed circuit boards. It is ideally suited for connections inside high-density equipment or between mechanical units. The contact is constructed to ensure a stable connection and high reliability even under vibration and impact. Connection is easy with a simple snap-in action.



Features-

Compact

Having no complicated cam or slide mechanism, this connector is small with a mounting height of only 4.4mm and a width of 3.0mm.

Double-sided contact

This connector has highly resilient phosphor bronze contacts, each of which has two independent mating spring members that ensure continuity even when subjected to severe vibration. Because each of the contacts simultaneously mates with both sides of the FFC or FPC, the engineer has greater freedom in designing his circuitry.

• Simple snap-in action

The FFC or FPC are securely connected by simply inserting their leads into the connector.

Surface mount model (SMT)

This connector is also available in a surface mount configuration. Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering. Because of its tiny size and ability to be surface mounted, this connector meets the demand for high-density mounting of components inside electronic products.

Specifications -

Current rating: 0.5A AC, DCVoltage rating: 50V AC, DC

• Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/20m Ω max.

After environmental testing/30m Ω max.

• Insulation resistance: 800M Ω min.

• Withstanding voltage: 500V AC/minute

• Applicable FFC and FPC: Conductor pitch/1.0mm

Conductor width/0.7mm

Mating part thickness/0.33+0.03 mm

• Applicable PC board thickness: 0.8 to 1.6mm

<Note>FFC/FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

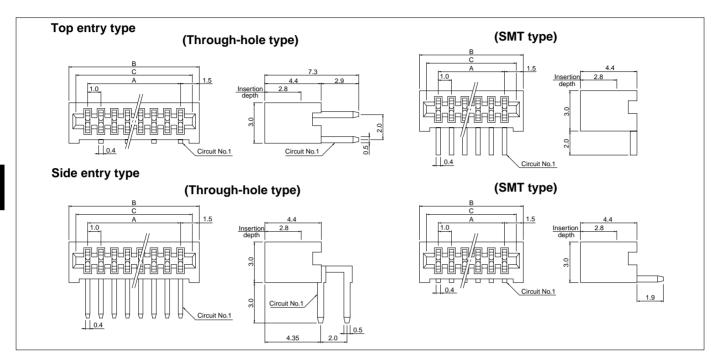
Standards -

Recognized E60389

⊕ Certified LR20812

FM CONNECTOR

Connector



Through-hole type connector

Circuits	Model No. of Through-hole type			Dimensions (mm)			
	Top entry type	Side entry type	А	В	С	Q'ty / box	
3	03FM-1.0BT	03FM-1.0ST	2.0	5.0	4.1	2,000	
4	04FM-1.0BT	04FM-1.0ST	3.0	6.0	5.1	2,000	
5	05FM-1.0BT	05FM-1.0ST	4.0	7.0	6.1	2,000	
6	06FM-1.0BT	06FM-1.0ST	5.0	8.0	7.1	1,000	
7	07FM-1.0BT	07FM-1.0ST	6.0	9.0	8.1	1,000	
8	08FM-1.0BT	08FM-1.0ST	7.0	10.0	9.1	1,000	
10	10FM-1.0BT	10FM-1.0ST	9.0	12.0	11.1	1,000	
11	11FM-1.0BT	11FM-1.0ST	10.0	13.0	12.1	1,000	
12	12FM-1.0BT	12FM-1.0ST	11.0	14.0	13.1	1,000	

SMT type connector on embossed-tape

Circuits	Model No.		Dimensions (mm)			Q'ty / reel	
	Top entry type	Side entry type	A	В	С	Top entry type	Side entry type
3	-	03FM-1.0SP-1.9-TF	2.0	5.0	4.1	-	2,500
4	04FM-1.0BP-TF	04FM-1.0SP-1.9-TF	3.0	6.0	5.1	1,000	2,500
5	05FM-1.0BP-TF	05FM-1.0SP-1.9-TF	4.0	7.0	6.1	1,000	2,500
6	06FM-1.0BP-TF	06FM-1.0SP-1.9-TF	5.0	8.0	7.1	1,000	2,500
7	07FM-1.0BP-TF	07FM-1.0SP-1.9-TF	6.0	9.0	8.1	1,000	2,500
8	08FM-1.0BP-TF	08FM-1.0SP-1.9-TF	7.0	10.0	9.1	1,000	2,500
10	10FM-1.0BP-TF-A	10FM-1.0SP-1.9-TF	9.0	12.0	11.1	1,000	2,000
12		12FM-1.0SP-1.9-TF	11.0	14.0	13.1	_	2,000

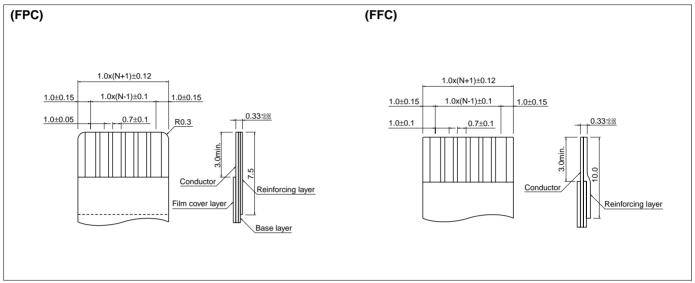
Material and Finish

(Through-hole type) Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0

(SMT type) Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PPS, UL94V-0

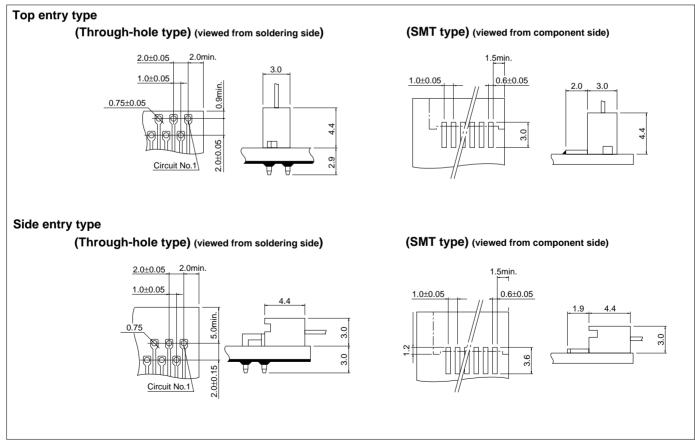
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Lead section dimensions of FFC and FPC



Note: N --- Number of circuits

PC board layout and Assembly layout -



Note:

- 1. Tolerances are non-cumulative: ±0.05mm for all centers.
- 2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.
- 3. It is recommended that surface mount connectors be secured using thermosetting resin or something similar. Contact JST for details.