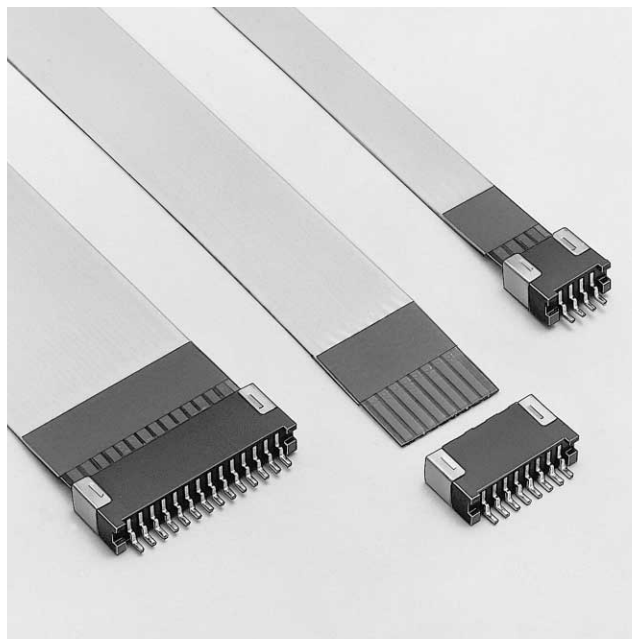
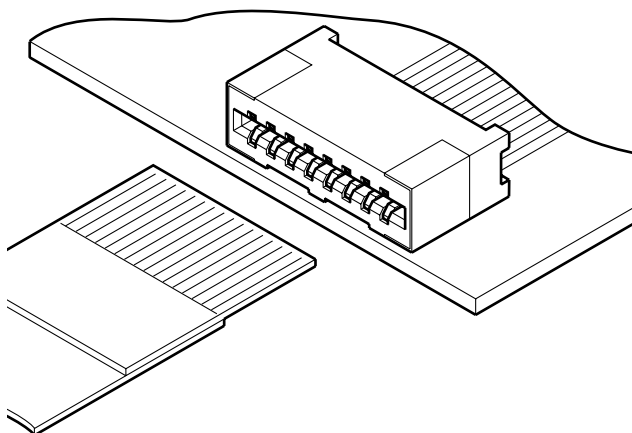


# FMS CONNECTOR

Connectors for FFC



**The FMS series connectors are designed for surface mounting (SMT) and to meet the demand for high-density packaging. They are miniature connectors with a height of only 2.8mm, and can be supplied packaged in embossed tape to facilitate automatic mounting.**



## Features

### • Compact

This connector measures 1.0mm in pitch, 2.8mm in mounting height, and 6.3mm in width.

### • 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, the engineer has greater freedom in designing his circuitry.

### • Simple snap-in action

The FFC is securely connected by simply inserting its leads into the connector.

### • SMT 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.

### • Solder tabs

This connector also features reinforcing solder tabs to prevent lifting of the connector during mating and unmating.

## Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m  $\Omega$  max.  
After environmental testing/30m  $\Omega$  max.
- Insulation resistance: 800M  $\Omega$  min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm  
Conductor width/0.7mm  
Mating part thickness/0.30 $\pm$ 0.05mm

<Note>FFC 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.

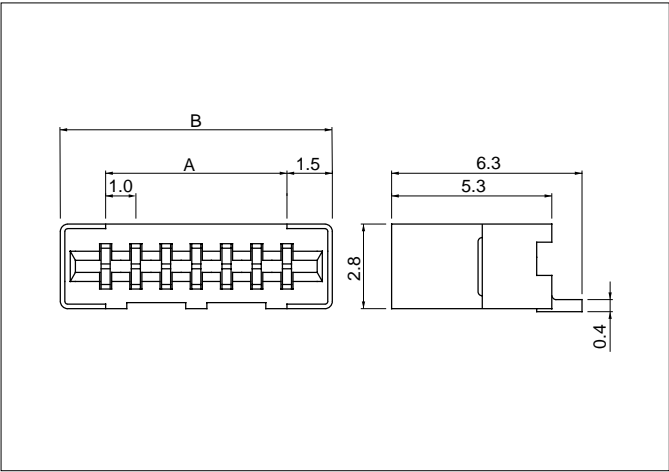
## Standards

Recognized E60389

Certified LR20812

# FMS CONNECTOR

## Connector



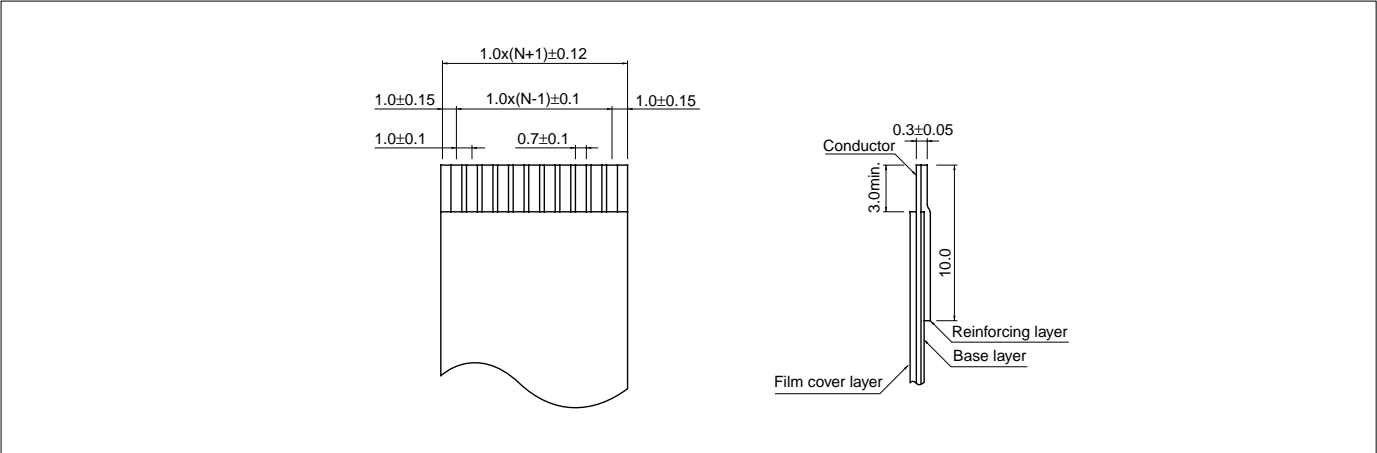
| Circuits | Model No.      | Dimensions (mm) |      | Q'ty / reel |
|----------|----------------|-----------------|------|-------------|
|          |                | A               | B    |             |
| 3        | 03FMS-1.0SP-TF | 2.0             | 5.0  | 2,500       |
| 4        | 04FMS-1.0SP-TF | 3.0             | 6.0  | 2,500       |
| 5        | 05FMS-1.0SP-TF | 4.0             | 7.0  | 2,500       |
| 6        | 06FMS-1.0SP-TF | 5.0             | 8.0  | 2,500       |
| 8        | 08FMS-1.0SP-TF | 7.0             | 10.0 | 2,500       |
| 10       | 10FMS-1.0SP-TF | 9.0             | 12.0 | 2,000       |
| 11       | 11FMS-1.0SP-TF | 10.0            | 13.0 | 2,000       |
| 12       | 12FMS-1.0SP-TF | 11.0            | 14.0 | 2,000       |
| 14       | 14FMS-1.0SP-TF | 13.0            | 16.0 | 2,000       |

### Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)  
Housing: PPS, UL94V-0  
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

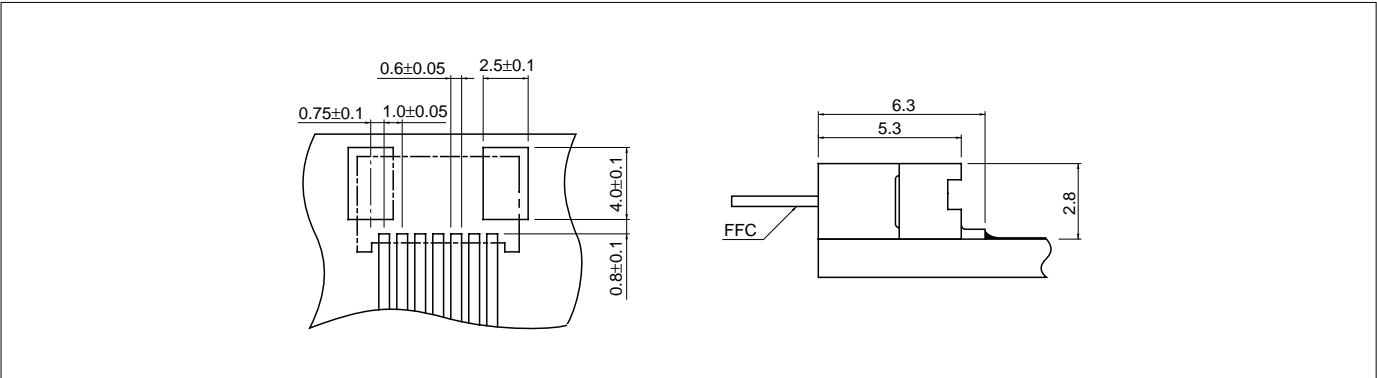
**RoHS compliance** This product displays (LF)(SN) on a label.  
Note: The products listed above are supplied on embossed tape.

## Lead section dimensions of FFC



Note: N --- Number of circuits

## PC board layout (viewed from component side) and Assembly layout



Note:  
1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}$  for all centers.  
2. The dimensions above should serve as a guideline.  
Contact JST for details.