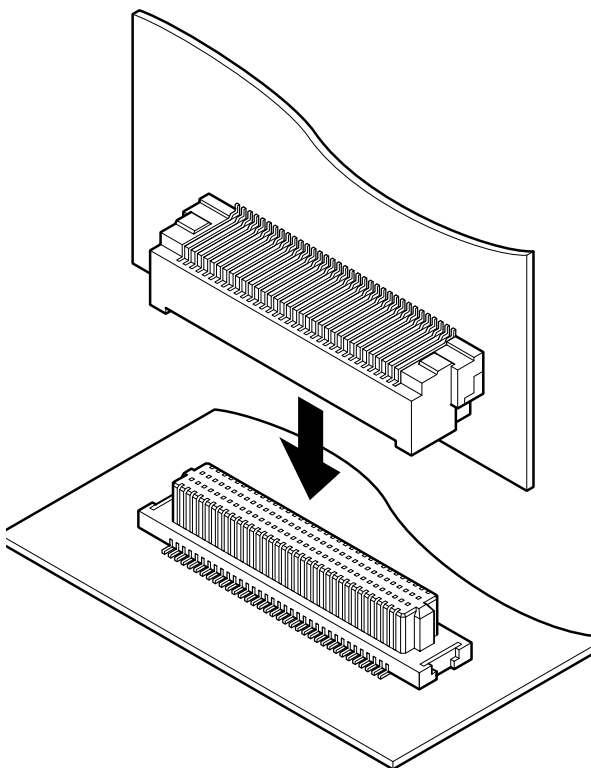


# JMD CONNECTOR

Board-to-board connectors



## Features

### • Smooth connection

Thanks to the cantilever type contacts, mating is very smooth.

### • Distortion preventive construction

Box-shaped plug housing has guide ribs on both ends, which prevents distortion.

### • Wide range of circuits

No. of circuits available are from 20 to 100, every 10 circuits.

### • Embossed taping for automatic mounting

This connector is supplied in embossed tape packaging, for mounting by automatic placement machines.

## 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/50m Ω max.  
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- \* Contact JST if Lead-Free product is required.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

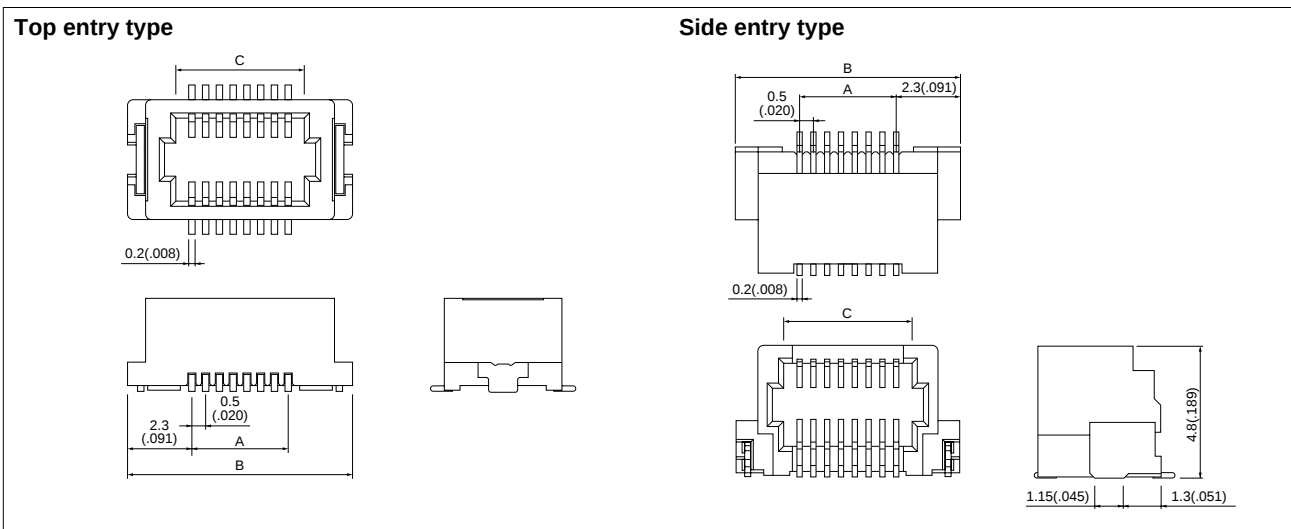
## Standards

Recognized E60389

Certified LR20812

# JMD CONNECTOR

## Plug



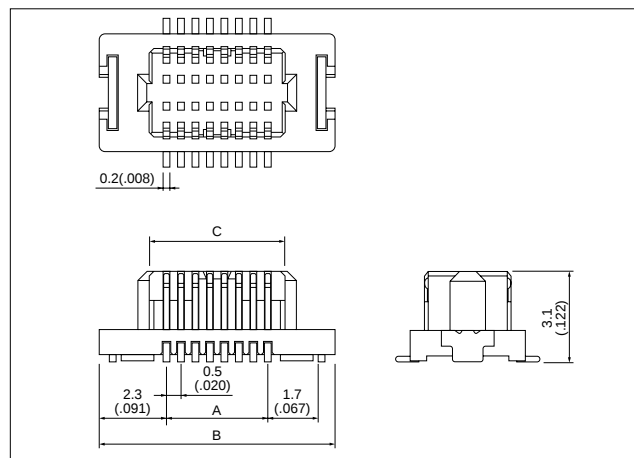
| Circuits | Model No.         |                     |                     |                    | Dimensions mm(in.) |             |             | Q'ty /<br>reel |
|----------|-------------------|---------------------|---------------------|--------------------|--------------------|-------------|-------------|----------------|
|          | Top entry type    |                     |                     | Side entry type    | A                  | B           | C           |                |
|          | 4.5mm (.177")     | 5.0mm (.197")       | 6.0mm (.236")       |                    |                    |             |             |                |
| 20       | 20P-JMDSS-G-1-TF  | —                   | —                   | 20PS-JMDSS-G-1-TF  | 4.5(.177)          | 9.1( .358)  | 5.7( .224)  | 1,500          |
| 30       | —                 | 30P5.0-JMDSS-G-1-TF | —                   | 30PS-JMDSS-G-1-TF  | 7.0(.276)          | 11.6( .457) | 8.2( .323)  | 1,500          |
| 40       | 40P-JMDSS-G-1-TF  | 40P5.0-JMDSS-G-1-TF | —                   | 40PS-JMDSS-G-1-TF  | 9.5(.374)          | 14.1( .555) | 10.7( .421) | 1,500          |
| 50       | 50P-JMDSS-G-1-TF  | —                   | 50P6.0-JMDSS-G-1-TF | 50PS-JMDSS-G-1-TF  | 12.0(.472)         | 16.6( .654) | 13.2( .520) | 1,500          |
| 60       | 60P-JMDSS-G-1-TF  | —                   | 60P6.0-JMDSS-G-1-TF | 60PS-JMDSS-G-1-TF  | 14.5(.571)         | 19.1( .752) | 15.7( .618) | 1,500          |
| 70       | 70P-JMDSS-G-1-TF  | —                   | 70P6.0-JMDSS-G-1-TF | 70PS-JMDSS-G-1-TF  | 17.0(.669)         | 21.6( .850) | 18.2( .717) | 1,500          |
| 80       | 80P-JMDSS-G-1-TF  | —                   | —                   | 80PS-JMDSS-G-1-TF  | 19.5(.768)         | 24.1( .949) | 20.7( .815) | 1,500          |
| 100      | 100P-JMDSS-G-1-TF | —                   | —                   | 100PS-JMDSS-G-1-TF | 24.5(.965)         | 29.1(1.146) | 25.7(1.012) | 1,500          |

### Material and Finish

Contact: Phosphor bronze, gold-plated  
Housing: Polyamide, UL94V-0  
Solder tab: Brass, copper-undercoated, tin/lead-plated

Note: The products listed above are supplied on embossed-tape.

## Receptacle



| Circuits | Model No.         | Dimensions mm(in.) |             |             | Q'ty / reel |
|----------|-------------------|--------------------|-------------|-------------|-------------|
|          |                   | A                  | B           | C           |             |
| 20       | 20R-JMDSS-G-1-TF  | 4.5(.177)          | 9.1( .358)  | 5.7( .224)  | 1,500       |
| 30       | 30R-JMDSS-G-1-TF  | 7.0(.276)          | 11.6( .457) | 8.2( .323)  | 1,500       |
| 40       | 40R-JMDSS-G-1-TF  | 9.5(.374)          | 14.1( .555) | 10.7( .421) | 1,500       |
| 50       | 50R-JMDSS-G-1-TF  | 12.0(.472)         | 16.6( .654) | 13.2( .520) | 1,500       |
| 60       | 60R-JMDSS-G-1-TF  | 14.5(.571)         | 19.1( .752) | 15.7( .618) | 1,500       |
| 70       | 70R-JMDSS-G-1-TF  | 17.0(.669)         | 21.6( .850) | 18.2( .717) | 1,500       |
| 80       | 80R-JMDSS-G-1-TF  | 19.5(.768)         | 24.1( .949) | 20.7( .815) | 1,500       |
| 100      | 100R-JMDSS-G-1-TF | 24.5(.965)         | 29.1(1.146) | 25.7(1.012) | 1,500       |

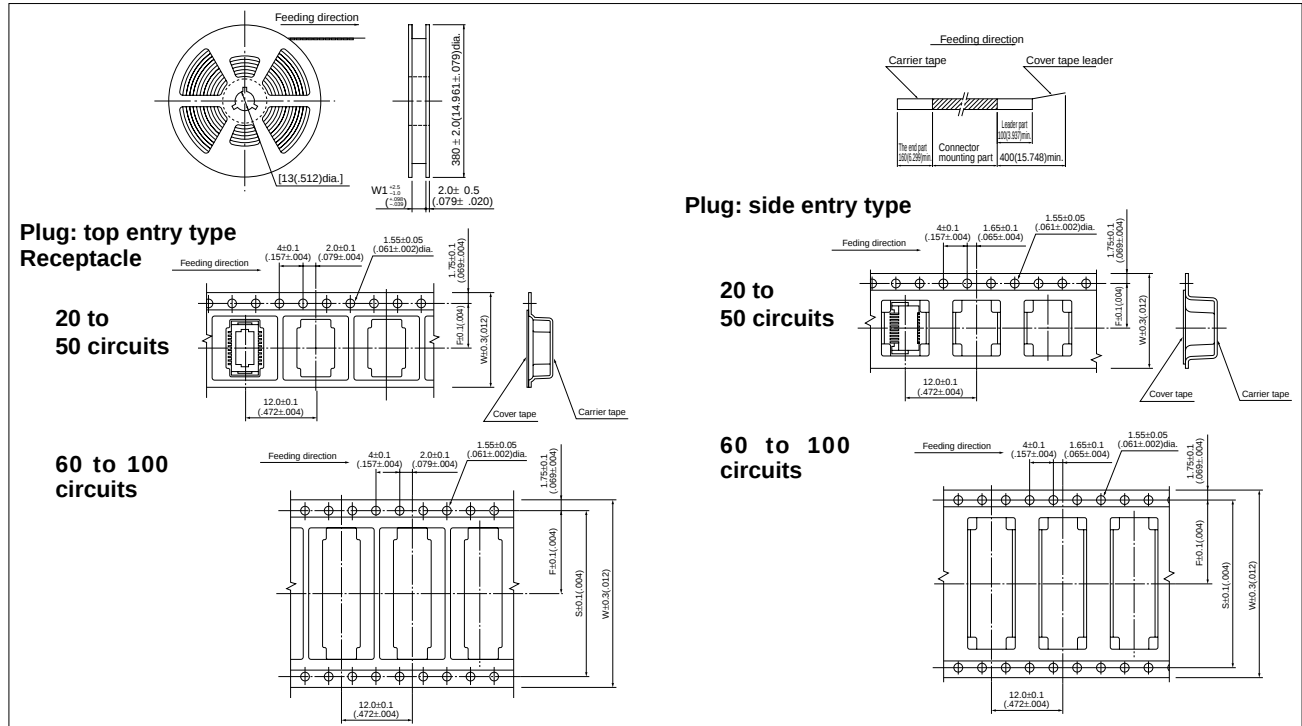
### Material and Finish

Contact: Phosphor bronze, gold-plated  
Housing: Polyamide, UL94V-0  
Solder tab: Brass, copper-undercoated, tin/lead-plated

Note: The products listed above are supplied on embossed-tape.

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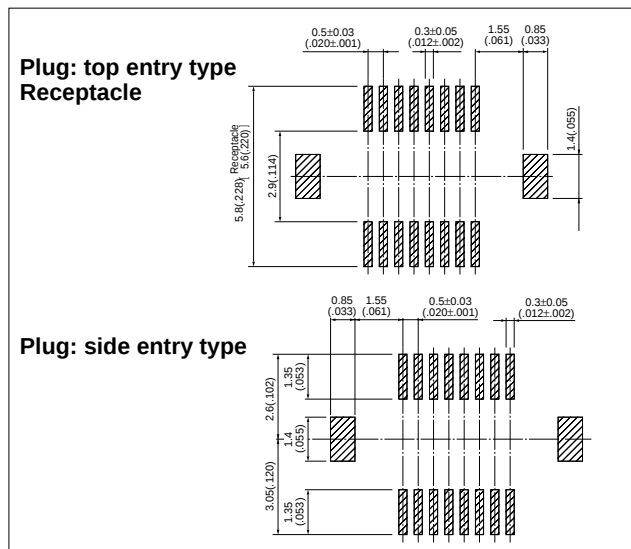
## Taping specifications



| Circuits | Dimensions mm(in.) |             |             |             | Q'ty / reel |
|----------|--------------------|-------------|-------------|-------------|-------------|
|          | F                  | S           | W           | W1          |             |
| 20       | 7.5( .295)         | —           | 16.0( .630) | 17.5( .689) | 1,500       |
| 30       | 11.5( .453)        | —           | 24.0( .945) | 25.5(1.004) | 1,500       |
| 40       | 11.5( .453)        | —           | 24.0( .945) | 25.5(1.004) | 1,500       |
| 50       | 11.5( .453)        | —           | 24.0( .945) | 25.5(1.004) | 1,500       |
| 60       | 14.2( .559)        | 28.4(1.118) | 32.0(1.260) | 32.0(1.260) | 1,500       |
| 70       | 14.2( .559)        | 28.4(1.118) | 32.0(1.260) | 32.0(1.260) | 1,500       |
| 80       | 20.2( .795)        | 40.4(1.591) | 44.0(1.732) | 44.0(1.732) | 1,500       |
| 100      | 20.2( .795)        | 40.4(1.591) | 44.0(1.732) | 44.0(1.732) | 1,500       |

Note: 1. Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.  
2. Specifications are subject to change without prior notice.

## PC board layout (viewed from component side)



Note:  
1. Tolerances are non-cumulative:  $\pm 0.03\text{mm}$  ( $\pm 0.001$ ") for all centers.  
2. The dimensions above should serve as a guideline. Contact JST for details.

## Assembly layout

